

L'anno duemilaquattordici, addì 11 novembre alle ore 15.30, a seguito	di
regolare convocazione trasmessa con nota prot. n. 64014 del 6 novemb	re
2014, nell'Aula Organi Collegiali si é riunito il Senato Accademico pe	er
l'esame e la discussione degli argomenti iscritti al seguente ordine del giorn	0:

o m i s s i s

**Sono presenti:** il Rettore, prof. Eugenio Gaudio ed i componenti del Senato Accademico: prof. Renato Masiani, Pro-Rettore Vicario, prof. Stefano Biagioni, prof.ssa Maria Rosaria Torrisi, prof.ssa Emma Baumgartner, prof. Davide Antonio Ragozzino, prof.ssa Alessandra Zicari, prof. Giorgio Graziani, prof. Stefano Catucci, prof.ssa Rita Asquini, prof.ssa Stefania Portoghesi Tuzi, prof.ssa Beatrice Alfonzetti, prof.ssa Matilde Mastrangelo, prof. Alessandro Saggioro, prof. Giorgio Piras, prof. Emanuele Caglioti, prof.ssa Maria Grazia Betti, prof. Felice Cerreto, prof. Giorgio De Toma, prof.ssa Susanna Morano, prof. Marco Biffoni, prof. Giuseppe Santoro Passarelli. prof. Augusto D'Angelo, prof.ssa Paola Rappresentanti del personale: Beniamino Altezza, Tiziana Germani, Pietro Maioli, Roberto Ligia, Carlo D'Addio e i Rappresentanti degli studenti: Manuel Santu, Valeria Roscioli, Stefano Capodieci, Pierleone Lucatelli e Diana Armento (entra alle ore 16.25).

**Assistono:** il Direttore Generale, Carlo Musto D'Amore, che assume le funzioni di Segretario, i Presidi: prof. Giuseppe Ciccarone, prof. Giorgio Spangher, prof. Fabrizio Vestroni, prof. Marco Listanti, prof. Vincenzo Nesi, prof. Roberto Nicolai, prof. Cristiano Violani, prof. Giuseppe Venanzoni, prof. Adriano Redler, i Vice Presidi: prof. Claudio Villani e prof.ssa Anna Maria Giovenale e la Rappresentante degli assegnisti/dottorandi, dr.ssa Valentina Mariani.

Assenti: la Rappresentante degli studenti Maria Gabriella Condello.

II	Presidente,	constatata	l'esistenza	del	numero	legale,	dichiara	
ľa	l'adunanza validamente costituita ed apre la seduta.							
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Schale Accademico

Seduta de

1 & NOV. 2014







Università degli Studi di Roma "La Sapienza"

## Chiamate dirette del personale docente

Il Presidente ricorda che l'art. 1, comma 9 della Legge 230/2005 disciplina l'istituto della chiamata diretta di professori ordinari, associati e ricercatori universitari rivolta a:

- a) studiosi stabilmente impegnati all'estero in attività di ricerca o insegnamento a livello universitario da almeno un triennio, che ricoprono una posizione accademica equipollente in istituzioni universitarie estere;
- b) coloro i quali abbiano già svolto per chiamata diretta autorizzata dal MIUR, nell'ambito del Programma Rientro dei cervelli, un periodo di almeno tre anni di ricerca e di docenza nelle università italiane e conseguito risultati scientifici congrui rispetto al posto per il quale viene proposta la chiamata;
- studiosi vincitori nell'ambito di specifici programmi di ricerca di alta qualificazione. A seguito della modifica introdotta dall'art. 29, co. 7, della L. 240/2010, infatti, è possibile procedere alla chiamata diretta di studiosi che siano risultati vincitori nell'ambito di specifici programmi di ricerca di alta qualificazione, finanziati dall'Unione europea o dallo stesso MIUR. I programmi, individuati con D.M. MIUR 1 luglio 2011, devono avere una durata almeno triennale e non devono essersi conclusi, al momento della proposta di chiamata, da più di tre anni (art. 2). Gli artt. 3 e 4 hanno identificato gli specifici programmi finanziati, rispettivamente, dal MIUR e dall'UE, mentre l'art. 5 ha disposto la revisione del D.M. ogni due anni.
- d) studiosi di chiara fama per la copertura di posti di I fascia.

I Dipartimenti interessati hanno trasmesso sette proposte di chiamata diretta, di cui 2 per posti di Professore di I fascia e 5 per posti di Professore di II fascia, secondo la tabella allegata.

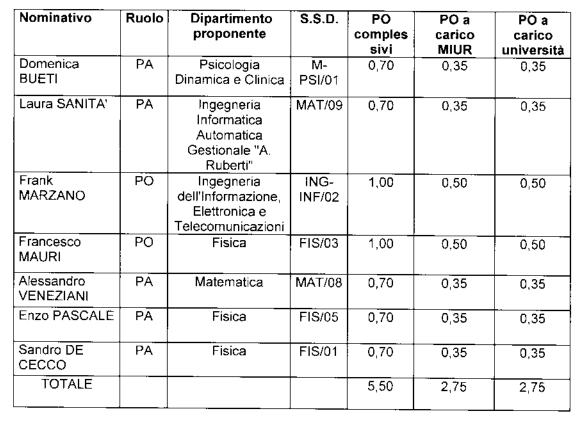


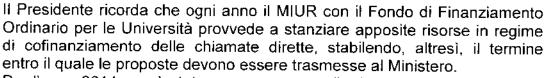
Senato Accademon

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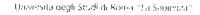


Per l'anno 2014 non è stato ancora emanato il relativo DM e pertanto, allo stato attuale, è necessario fare riferimento a quanto previsto dall'art. 4 del DM 8/8/2013 n. 700 (Fondo di Finanziamento Ordinario 2013) che ha fissato la misura del cofinanziamento al 50% del costo della qualifica del docente che viene chiamato e fino a concorrenza del 95% nel caso di chiamata di docenti che hanno beneficiato del Progetto Rientro Cervelli (ai sensi dei DD.MM. n. 13 del 26.1.2001, n. 501 del 20.3.2003, n.18 del 1.2.2005 e n. 230 del 27.11.2009).

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Il suddetto DM esclude dal cofinanziamento le chiamate per "chiara fama" e dei Ricercatori a tempo determinato, come tra l'altro, precisato dal MIUR, con nota del 7.01.2014, prot. n. 77.

A tal riguardo si ricorda che le chiamate saranno conteggiate ai Dipartimenti beneficiari nelle assegnazioni future di risorse, come già deliberato nelle sedute del 22 ottobre 2013, 26 novembre 2013 e 27 maggio 2014.

Si fa presente, inoltre, che il Dipartimento di Scienze Documentarie, Linguistico-filologiche ha deliberato la chiamata diretta della dott.ssa Grazia Portoghesi Tuzi per un posto di ricercatore a tempo determinato di tipo B). Le risorse per la chiamata, in caso di esito positivo, pertanto, saranno conteggiate a totale carico del Dipartimento.

A tal riguardo si ricorda che l'art. 3.2 del Regolamento per l'assegnazione delle risorse per la chiamata dei professori di I e II fascia e per il reclutamento di ricercatori a td di tipo B) di Ateneo, in ordine alle procedure di chiamata, prevede che:

"I Dipartimenti deliberano, per quanto di loro competenza, sull'attivazione delle procedure di chiamata/reclutamento solo dopo che siano state assegnate le specifiche risorse, nell'ambito della programmazione triennale di cui all'art. 1, c. 105, della L. 30.12.2004 n. 311, e di cui all'art.1-ter del D. L. 31.01.2005, n. 7, convertito con modificazioni dalla L 31.03.2005, n. 43, nonché delle disposizioni di cui all'art 5, comma 4, lettera d) della L. 30.12.2010 n. 240 e s.i.m. È fatto divieto ai Dipartimenti formulare proposte di chiamata senza la preventiva comunicazione di definitiva disponibilità finanziaria".

Alla luce di quanto sopra il Presidente sottopone all'esame del Senato Accademico le proposte di chiamata diretta pervenute, corredate dei relativi curricula, per le valutazioni di competenza.

## Allegati parte integrante:

- CV Domenica BUETI
- CV Laura SANITA'
- CV Frank MARZANO
- CV Francesco MAURI
- CV Alessandro VENEZIANI
- CV Enzo PASCALE
- CV Sandro DE CECCO
- CV Grazia PORTOGHESI TUZI

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Università degli Studi di Roma "La Sabienza"



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Seduta de

#### **DELIBERAZIONE N. 442/14**

#### IL SENATO ACCADEMICO

1 1 NOV. 2014

LETTA

la relazione istruttoria;

VISTO

lo Statuto dell'Università:

VISTO

l'art.1. comma 9 della Legge 230/2005 e successive

modificazioni ed integrazioni;

VISTE

le delibere del Senato Accademico del 7 giugno

2011, del 26.11.2013 n. 422/13 e del 27.5.2014 n.

289/14:

VISTE

le proposte di chiamata diretta;

VISTI

i curricula dei docenti;

TENUTO CONTO di quanto emerso nel corso del dibattito, in particolare sulla necessità che, prima dell'invio al MIUR, le proposte di chiamate dirette pervenute e che eventualmente perverranno, siano esaminate da una Commissione, composta da un rappresentante di ciascuna Macro-area, con il compito di verificare il possesso da parte dei candidati anche dei requisiti

ANVUR;

**PRESO ATTO** 

quanto rappresentato dal prof. sull'opportunità che il Dipartimento di Scienze Documentarie, Linguistico-filologiche si pronunci, in via preliminare, anche in merito alla totale assunzione a proprio carico del finanziamento necessario per la chiamata diretta della dott.ssa Grazia Portoghesi Tuzi in qualità di Ricercatore a

tempo determinato di tipo B);

#### Con voto unanime

#### **DELIBERA**

- di nominare una Commissione, presieduta dal Pro-Rettore Vicario, prof. Renato Masiani, anche in rappresentanza della Macro-area D, e composta dai professori:
- Saggioro Alessandro, Macro-area E
- De Toma Giorgio, Macro-area C

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- Ragozzino Davide Antonio, Macro-area B
- Panarese Paola, Macro-area F
- Caglioti Emanuele, Macro-area A

con il compito di verificare, prima dell'inoltro al MIUR delle proposte di chiamata diretta dei sotto elencati docenti, nonché delle proposte che eventualmente perverranno, il possesso da parte dei candidati anche dei requisiti ANVUR

Nominativo	Ruol	Dipartimento proponente	S.S. D.	PO compl essivi	PO a carico MIUR	PO a carico universit à
Domenica BUETI	PA	Psicologia Dinamica e Clinica	M- PSI/ 01	0,70	0,35	0,35
Laura SANITA'	PA	Ingegneria Informatica Automatica Gestionale "A. Ruberti"	MAT /09	0,70	0,35	0,35
Frank MARZANO	PO	Ingegneria dell'Informazione, Elettronica e Telecomunicazioni	ING- INF/ 02	0,3	0,15	0,15
Francesco MAURI	PO	Fisica	FIS/ 03	1,00	0,50	0,50
Alessandro VENEZIANI	PA	Matematica	MAT /08	0,70	0,35	0,35
Enzo PASCALE	PA	Fisica	FIS/ 05	0,70	0,35	0,35
Sandro DE CECCO	PA	Fisica	FIS/ 01	0,70	0,35	0,35

- di rinviare ogni decisione in ordine all'inoltro al MIUR della proposta di chiamata diretta della dott.ssa Grazia Portoghesi Tuzi in qualità di Ricercatore a tempo determinato di tipo B), alla prossima seduta in attesa di specifica delibera del Dipartimento interessato sull'assunzione a proprio carico del relativo finanziamento;
- di confermare che nelle future assegnazioni di risorse siano conteggiati ai Dipartimenti beneficiari le presenti assegnazioni, nella misura stabilita dal Senato Accademico con delibere del 7 giugno 2011, del 26.11.2013 n. 422/13 e del 27.5.2014 n. 289/14

Letto e approvato seduta stante per la sola parte dispositiva.

IL SEGRETARIO Carlo Musto D'Amore

IL PRESIDENTE, Eugenio Gaudio

Universita degli Studi di Roma "La Sapienza"

## Informazioni Personali

Democrata Buen Charles and

Nome, Cognome

Domenica, Bueti

Data di nascita

16/02/1974

URL sito-web

http://www.unil.ch/fenl/page83022.html

# Posizioni Accademiche Ricoperte

Gennaio 2011 a oggi Responsabile di Ricerca, Dipartimento di Neuroscienze Cliniche

(DNC), Ospedale Universitario di Losanna (CHUV), Losanna,

2007-2010

Ricercatore post-dottorato, Laboratorio di Neuroimmagini,

Fondazione Santa Lucia, Roma, Italia. 2004-2007

Ricercatore post-dottorato, Institute of Cognitive Neuroscience

(ICN), University College London (UCL), Regno Unito. 2003-2004

Studente di dottorato, Institute of Cognitive Neuroscience (ICN),

University College London (UCL), Regno Unito.

## Formazione Scolastica

2001-2004

Dottorato di ricerca in neuroscienze cognitive (PhD), Università di

Roma 'La Sapienza', Italia.

1995-2000

Laurea quinquennale in Psicologia, Università di Padova, Italia.

## Finanziamenti di Ricerca e Premi

2014 Abilitazione Scientifica Nazionale come professore di seconda fascia settore concorsuale 11/E1 Psicologia Generale, Psicobiologia e Psicometria (https://abilitazione.cineca.it/ministero.php/public/esito/settore/11%252FE1/fas

cia/2).

2012-2014 Responsabile di ricerca residente all'estero per il progetto: "Preparatory, response-related, outcome-evaluation and predictive components of attentional orienting in right brain damage: clues for diagnosis and rehabilitation". 274.000 € finanziato dal Ministero Italiano della Salute (RF-2010-2319059).

Borsa di studio "Marie Curie" (FP6, RTN-training site student. 21.000 €). 2003-2004

## Sommario delle Pubblicazioni Scientifiche (in basso la lista completa)

- 25 pubblicazioni (16 delle quali come primo o ultimo autore) in riviste internazionali "peer-reviewed" come Neuron, Journal of Neuroscience, Nature Neuroscience, Brain, Cortex, Neuroimage.
- 1053 citazioni.
- h-index: 13 (h articoli citati h volte, fonte Scholar).

### Esperienze d'Insegnamento e di Supervisione di Progetti di Ricerca

Sono supervisore di 2 studenti di Master in Biologia e Medicina e co-2011 a oggi supervisore di due studenti di dottorato presso l'Ospedale Universitario di

Losanna, Svizzera.

Settembre 2013 Ho insegnato presso la scuola estiva internazionale dedicata alle

"Neuroimmagini del Tempo", presso l'Università di Magdeburg, Germania.

Settembre 2011 Ho insegnato e sono stata coordinatore di progetto alla scuola estiva internazionale "FENS-IBRO Imaging Training Center" all'Università di Losanna, Svizzera.

2010 Ho organizzato un corso metodologico di statistica e neuroimmagini funzionali per dottorandi di ricerca e ricercatori post-dottorato presso il Laboratorio di Neuroimmagini della Fondazione Santa Lucia di Roma (Italia).

2008-2010 Sono stata co-supervisore di due studenti di dottorato all'Università di Roma 'La Sapienza'.

2006-2007 Ho supervisionato uno studente BSc presso l'ICN, London, Regno Unito.

Sono stata professore a contratto in Psicobiologia presso il Dipartimento di Psicologia, Università di Chieti, Italia.

## Responsabilità Professionali

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#### Attività di esperto

- Riviste scientifiche. Vengo consultata in qualità di esperto da numerose riviste scientifiche internazionali sia del settore biologico che psicologico tra le quali: Brain, Cerebral Cortex, Cortex, Current Biology, Human Brain Mapping, Journal of Cognitive Neuroscience, Journal of Experimental Psychology, Journal of Neurophysiology, Journal of Neuroscience, Trends in Cognitive Sciences.

Agenzie di Ricerca: Sono stata consultata in qualità di esperto dalle seguenti agenzie di ricerca: Agenzia Nazionale della Ricerca Francese (ANR); Fondo Nazionale Svizzero per la Ricerca (FN-SNF); Fondazione Israeliana per la Scienza (ISF).

#### Attività editoriali

- Editore Esperto per "Timing and Time perception" (Edizioni Brill).
- Editore Associato per "Frontiers in Neuroscience".

## Appartenenza a Società Scientifiche Internazionali e Nazionali

Sono membro della Società Internazionale di Neuroscienze (Society for Neuroscience, SfN).

#### Collaborazioni di Ricerca

- Prof. Mara Cercignani (CISC, Brighton and Sussex Medical School): cambiamenti cerebrali strutturali durante l'apprendimento.
- Prof. Fabrizio Doricchi (Università di Roma, "La Sapienza"): cognizione numerica e interazioni con lo spazio e il tempo.
- Dr. Ryota Kanai (School of Psychology, Sussex University, Regno Unito): mappe del tempo.
- Dr. Ferath Kerif (DNC, CHUV, Losanna): Dynamic Causal Modeling (DCM) di network temporali.
- Dr. Roger Kalla (Dipartimento di Neurologia, Ospedale Universitario di Monaco, Germania): elaborazione del tempo in pazienti vestibolari.
- Dr. Emilano Macaluso (Fondazione Santa Lucia, Roma): attenzione temporale, apprendimento ed esperienza soggettiva del tempo.
- Dr. Wietske Van der Zwaag (CIBM, EPFL, Losanna): mappe del tempo.



#### Comunicazioni Scientifiche su Invito

2014 Lectio Magistralis, conferenza "Timing and Time Percepetion", Ionian University, Corfù, Grecia.

#### 2013

- Seminario, Dipartimento di Psicologia, Università di Bologna, Italia.
- Workshop "Temporal Prediction", Università di Granada, Spagna.
- Scuola internazionale estiva "Imaging Time", Università di Magdeburgo, Germania. 2012
- Seminario, Clinical Imaging Sciences Center (CISC), Brighton and Sussex Medical School, Falmer, Regno Unito.
- Nano-Symposium "Human Timing" presso Society for Neuroscience (SfN), New Orleans, USA.
- Scuola estiva interdisciplinare "I nomi del Tempo", Dipartimento di Fisica e Astronomia, Università di Padova, Italia.
- 2011 FENS-IBRO Imaging Training Center 2011, Losanna, Svizzera.
- 2010 Intervista per una posizione accademica, Birkbeck College London, Regno Unito.
- 2009 Workshop "The Functions of the Parietal Lobes", Institute for Advanced Studies, Università Ebraica di Gerusalemme, Israele.

#### 2008

- Workshop "The Nature of Time. From Physics to Psychology", Menéndez Pelayo Università Internazionale di Barcellona (CUIMPB Centre Ernest Lluch), Spagna.
- Intervista per una posizione accademica, Dipartimento di Neuroscienze Cognitive della Scuola Internazionale di Studi Avanzati (SISSA), Trieste, Italia.

#### 2007

- Seminario, Neuroimaging center (MARIARC), Università di Liverpool, Regno Unito.
- Workshop "The anatomy of Time", UCL, London, Regno Unito.
- Magstim workshop "TMS in Cognition", UCL, London, Regno Unito.

2000-2001-2009 Società Italiana di Neuropsicologia (SINP), Bologna, Italia.

#### Attività di Divulgazione Scientifica

#### 2014

- Seminario per TEDx Lausanne (http://www.tedxlausanne.org/tedxlausanne-2014-speakers).
- Intervista per BBC FUTURE (http://www.bbc.com/future/story/20140624-the-man-who-saw-time-freeze).

#### 2012

- Intervista per "RAI-Radio3-Scienza" (http://www.radio3.raj.it/dl/radio3/programmi/puntata/ContentItem-65dc4d37-ab36-4fdb-ba57-72ad7cc22da6.html).
- Intervista per "Radio Città Futura".
- Seminario per "Infinitamente", Festival di Arte e Scienza, Verona, Italia (http://www.infinitamente.univr.it/programma.html.

#### Lista Completa delle Pubblicazioni Scientifiche ("peer-reviewed")

- 1. **Bueti, D.**, Buonomano, D.V. Temporal Perceptual Learning (in press). *Timing and Time Perception*.
- 2. Salvioni, P., Murray, M.M., Kalmbach, L., **Bueti**, **D**. (2013). How the visual brain encodes and keeps track of time, *J Neurosci*. 33. 12423-12429

3. Binetti, N., Siegler, I., **Bueti**, **D.\***, Doricchi, F.\* (2013). Adaptive tuning of perceptual timing to vestibular stimulation. *Neuropsychologia*, 51,197-210 - special issue on 'Time processing' doi:10.1016/j.neuropsychologia.2012.10.029. \*Equal contribution.

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- 4. Spierer, L., Manuel, A., **Bueti**, **D**., Murray, M.M. (2013). Contributions of pitch and bandwidth to sound-induced enhancement of visual cortex excitability in humans. *Cortex* doi:10.1016/j.cortex.2013.01.001.
- 5. Bueti, D., Lasaponara, S., Cercignani M., Macaluso, E. (2012). Learning about time: Plastic Changes and Individual Brain Differences. *Neuron*, 75, 725-737.
- Aiello, M., Courtois, S.J., Merola, S., Ottaviani, T., Tomaiuolo, F., Bueti, D., Rossetti, Y., Doricchi, F. (2012). No inherent left and right side in human "mental number line": evidence from right brain damage. Brain. 135, 2492-2505.
- 7. Bueti, D. (2011). The sensory representation of time. Front Integr Neurosci 5, 34.
- 8. **Bueti, D.**, and Macaluso, E. (2011). Physiological correlates of subjective time: evidence for the temporal accumulator hypothesis. *Neuroimage* 57, 1251-1263.
- 9. Kanai, R., Lloyd, H., **Bueti, D.**, Walsh, V. (2011). Modality-independent role of the primary auditory cortex in time estimation. *Exp Brain Res* 209, 465-471.
- Kalla, R., Muggleton, N., Spiegel, R., Bueti, D., Claassen, J., Walsh, V., Bronstein, A. (2011). Adaptive motion processing in bilateral vestibular failure. J Neurol Neurosurg Psychiatry 82, 1212-1216.
- 11. Rusconi, E., **Bueti**, **D**., Walsh, V., Butterworth, B. (2011). Contribution of frontal cortex to the spatial representation of number. *Cortex* 47, 2-13.
- 12. **Bueti, D.**, Bahrami, B., Walsh, V., Rees, G. (2010). Encoding of temporal probabilities in the human brain. *J Neurosci* 30, 4343-4352.
- 13. Bueti, D., and Walsh, V. (2010). Memory for time distinguishes between perception and action. *Perception* 39, 81-90.
- 14. **Bueti, D.**, and Macaluso, E. (2010). Auditory temporal expectations modulate activity in visual cortex. *Neuroimage* 51, 1168-1183.
- 15. Binetti, N., Siegler, I.A., **Bueti**, **D**., Doricchi, F. (2010). Time in motion: effects of whole-body rotatory accelerations on timekeeping processes. *Neuropsychologia* 48, 1842-1852.
- 16. **Bueti, D.**, and Walsh, V. (2009). The parietal cortex and the representation of time, space, number and other magnitudes. *Philos Trans R Soc Lond B Biol Sci 364*, 1831-1840.
- 17. Rusconi, E., **Bueti**, D. Riello, M. Walsh, V., Butterworth, B. (2008). Where numerical cognition interacts with spatial attention. *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation*, 1, 316-317, doi:10.1016/j.brs.2008.06.184.
- 18. **Bueti, D.**, van Dongen, E.V., Walsh, V. (2008). The role of superior temporal cortex in auditory timing. PLoS ONE 3, e2481.
- Bueti, D., Walsh, V., Frith, C., Rees, G. (2008). Different brain circuits underlie motor and perceptual representations of temporal intervals. J Cogn Neurosci 20, 204-214.
- 20. Bueti, D., Bahrami, B., Walsh, V. (2008). Sensory and association cortex in time perception. *J Cogn Neurosci* 20, 1054-1062.
- 21. Doricchi, F., Guariglia, P., Figliozzi, F., Silvetti, M., Gasparini, M., Merola, S., Macci, E., Binetti, N., Bruschini, M., **Bueti**, **D**. (2008). No reversal of the Oppel-Kundt illusion with short stimuli: confutation of the space anisometry interpretation of neglect and 'cross-over' in line bisection. *Brain 131*, e94; author reply e95.
- Costantini, M., Bueti, D., Pazzaglia, M., Aglioti, S.M. (2007). Temporal dynamics of visuo-tactile extinction within and between hemispaces. *Neuropsychology* 21, 242-250.
- 23. Avenanti, A., **Bueti, D.**, Galati, G., Aglioti, S.M. (2005). Transcranial magnetic stimulation highlights the sensorimotor side of empathy for pain. *Nat Neurosci* 8, 955-960.

24. Bueti, D., Costantini, M., Forster, B., Aglioti, S.M. (2004). Uni- and cross-modal temporal modulation of tactile extinction in right brain damaged patients. *Neuropsychologia* 42, 1689-1696.

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25. Bueti, D., Moro, V., Aglioti, S.M. (2001). Aspetti spazio-temporali dell'estinzione unimodale e crossmodale tattile in pazienti cerebrolesi destri. Giornale Italiano di Psicologia 28, 865-874.



# Lista Completa delle Pubblicazioni Scientifiche ("peer-reviewed")

- 1. Bueti, D., Buonomano, D.V. Temporal Perceptual Learning (in press). Timing and
- Salvioni, P., Murray, M.M., Kalmbach, L., Bueti, D. (2013). How the visual brain encodes and keeps track of time, J Neurosci. 33. 12423-12429
- 3. Binetti, N., Siegler, I., **Bueti, D.\***, Doricchi, F.\* (2013). Adaptive tuning of perceptual timing to vestibular stimulation. *Neuropsychologia*, 51,197-210 special contribution.

  Time processing' doi:10.1016/j.neuropsychologia.2012.10.029. \*Equal
- Spierer, L., Manuel, A., Bueti, D., Murray, M.M. (2013). Contributions of pitch and bandwidth to sound-induced enhancement of visual cortex excitability in humans.
- 5. Bueti, D., Lasaponara, S., Cercignani M., Macaluso, E. (2012). Learning about time: Plastic Changes and Individual Brain Differences. *Neuron*, 75, 725–737.
- 6. Aiello, M., Courtois, S.J., Merola, S., Ottaviani, T., Tomaiuolo, F., Bueti, D., Rossetti, Y., Doricchi, F. (2012). No inherent left and right side in human "mental number line": evidence from right brain damage. *Brain*. 135, 2492-2505.
- 7. Bueti, D. (2011). The sensory representation of time. Front Integr Neurosci 5, 34.
- 8. **Bueti, D.**, and Macaluso, E. (2011). Physiological correlates of subjective time: evidence for the temporal accumulator hypothesis. *Neuroimage* 57, 1251-1263.
- 9. Kanai, R., Lloyd, H., **Bueti**, **D.**, Walsh, V. (2011). Modality-independent role of the primary auditory cortex in time estimation. *Exp Brain Res* 209, 465-471.
- 10. Kalla, R., Muggleton, N., Spiegel, R., Bueti, D., Claassen, J., Walsh, V., Bronstein, A. (2011). Adaptive motion processing in bilateral vestibular failure. *J Neurol Neurosurg Psychiatry* 82, 1212-1216.
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- 13. **Bueti**, **D**., and Walsh, V. (2010). Memory for time distinguishes between perception and action. *Perception* 39, 81-90.
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- Bueti, D., and Walsh, V. (2009). The parietal cortex and the representation of time, space, number and other magnitudes. *Philos Trans R Soc Lond B Biol Sci* 364, 1831-1840.
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- 19. **Bueti, D.**, Walsh, V., Frith, C., Rees, G. (2008). Different brain circuits underlie motor and perceptual representations of temporal intervals. *J Cogn Neurosci* 20, 204-214.
- 20. **Bueti, D.**, Bahrami, B., Walsh, V. (2008). Sensory and association cortex in time perception. *J Cogn Neurosci* 20, 1054-1062.
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- 22. Costantini, M., Bueti, D., Pazzaglia, M., Aglioti, S.M. (2007). Temporal dynamics of visuo-tactile extinction within and between hemispaces. *Neuropsychology* 21, 242-250.
- 23. Avenanti, A., Bueti, D., Galati, G., Aglioti, S.M. (2005). Transcranial magnetic stimulation highlights the sensorimotor side of empathy for pain. *Nat Neurosci* 8, 955-960.
- Bueti, D., Costantini, M., Forster, B., Aglioti, S.M. (2004). Uni- and cross-modal temporal modulation of tactile extinction in right brain damaged patients. Neuropsychologia 42, 1689-1696.
- 25. Bueti, D., Moro, V., Aglioti, S.M. (2001). Aspetti spazio-temporali dell'estinzione unimodale e crossmodale tattile in pazienti cerebrolesi destri. Giornale Italiano di Psicologia 28, 865-874.



# Curriculum Vitae di Laura Sanità

# **Assistant Professor**

Combinatorics & Optimization Department
University of Waterloo
200 University Ave. W
Waterloo, Ontario
Canada, N2L 3G1

## Informazioni Personali

Data di nascita: 24 giugno 1981

Nazionalità: Italiana

• Indirizzo: 1605-11 Margaret Avenue, Kitchener, ON, N2H 6M4

#### Canada

• Tel: +1 519 888 4567 x 31395

Email: laura.sanita@uwaterloo.ca

• Web page: http://www.math.uwaterloo.ca/~lsanita

## Posizioni ricoperte

- Gennaio 2012 Presente: Assistant Professor, Department of Combinatorics & Optimization, University of Waterloo
- Febbraio 2009 Agosto 2011: Postdoctoral fellow, Discrete Optimization Group (Chair: Prof. Friedrich Eisenbrand), Institute of Mathematics, Ecole Polytechnique Federale de Lausanne, Switzerland
- Maggio 2007 Luglio 2007: Early-Stage Researcher (Adonet short-term position per studenti di dottorato), University of Cologne, Germany

#### Riconoscimenti

- Co-vincitrice del Best Paper Award alla conferenza "Symposium on Theory of Computing" (STOC) 2010
- Il lavoro [5] è stato selezionato come "notable article in computing in 2013" e incluso nella lista "Best of 2013" stipulata da: Association for Computing Machinery (ACM) Computing Reviews'
- I lavori in [5,23] sono stati inclusi in due recenti libri di testo nell'area di algoritmi di approssimazione:

- The Design of Approximation Algorithms by David P. Williamson, David B. Shmoys, Cambridge University Press, 2011
- Iterative Methods in Combinatorial Optimization by Lap Chi Lau, R. Ravi, Mohit Singh, Cambridge University Press. 2011
- Il lavoro [5] (versione estesa del lavoro [23]) è stato pubblicato come articolo invitato su una delle più importanti riviste nell'area di informatica teorica: *Journal of the ACM*
- Membro del Program Committee per le conferenze internazionali "ESA 2014" (22nd European Symposium on Algorithms) e "WAOA 2014" (12th Workshop on Approximation and Online Algorithms).
- Direttrice del comitato "Women in Math" dell'università di Waterloo (da Giugno 2013)

## Fondi di ricerca

Titolare dei seguenti fondi di ricerca:

- \$110,000 per il periodo 2012-2017. Fonte: Natural Sciences and Engineering Research Council, Canada (NSERC)
- \$30,000 per il periodo 2012-2013. Fonte: start-up funds of the Faculty of Mathematics, University of Waterloo

#### Studi

- Gennaio 2009: Dottorato di ricerca in Ricerca Operativa, Università Sapienza di Roma. Tesi: Robust Network Design.
- Ottobre 2005: Laurea Specialistica in Ingegneria Gestionale, Università di Roma Tor Vergata.
- Luglio 2003: Laurea Triennale in Ingegneria Gestionale, Università di Roma Tor Vergata.

## Profilo professionale e interessi di ricerca

• Ho conseguito la Laurea Specialistica in Ingegneria Gestionale nel 2005 presso l'università di Roma Tor Vergata, e il Dottorato in Ricerca Operativa nel Gennaio 2009 presso l'università Sapienza di Roma, sotto la supervisione del Prof. Gianpaolo Oriolo.

Ho lasciato l'Italia nel Febbraio del 2009 per prendere una posizione come PostDoc presso il dipartimento di matematica dell'EPFL, in Svizzera, nel gruppo del Prof. Friedrich Eisenbrand.

In seguito, a Gennaio 2012 mi sono trasferita in Canada, dove attualmente ho una posizione di tenure-track Assistant Professor nella facoltà di matematica dell'università di Waterloo.

I miei interessi di ricerca riguardano principalmente l'ottimizzazione combinatoria e algoritmi. Il mio lavoro su algoritmi approssimati per un problema di disegno di reti ha ricevuto il Best Paper Award alla conferenza "Symposium on Theory of Computing" (STOC) 2010. Sono altresì interessata a problemi applicati di Ricerca Operativa, e in particolare a problemi di ottimizzazione del traffico su reti di trasporto e comunicazione. In quest'ambito, ho collaborato con compagnie di telecomunicazioni sviluppando un metodo che è stato brevettato da Ericsson Lab Italy.

## Attività di ricerca

- Referee per le seguenti riviste internazionali: Mathematical Programming series A and B, SIAM Journal on Discrete Mathematics, Operations Research Letters, Discrete Applied Mathematics, European Journal on Operational Research, Informations Processing Letters.
- Referee per le seguenti conferenze internazionali: ACM Symposium on the Theory of Computing (STOC), Symposium on Discrete Algorithms (SODA), Integer Programming and Combinatorial Optimization conference (IPCO), European Symposium on Algorithms (ESA), International Conference on Algorithms and Complexity (CIAC), Workshop on Approximation and Online Algorithms (WAOA), International Computing and Combinatorics Conference (COCOON), International conference on Fun with Algorithms (FUN), International Symposium on Combinatorial Optimization (ISCO), International Network Optimization Conference (INOC), International Workshop on Algorithms and Computation (WALCOM), Scandinavian Symposium and Workshops on Algorithm Theory (SWAT).
- Membro del comitato organizzativo del Workshop on Flexible Network Design 2013, Fields Institute, Toronto (Canada).
  - Membro del comitato organizzativo per la conferenza IPCO 2010.
- Progetti di ricerca in collaborazione con le seguenti compagnie di telecomunicazioni:
- Ericsson Lab Italy s.p.a via Anagnina 203, 00040 Morena (RM), Italy (negli anni 2005-2009)
- CoRiTeL (Research Consortium in Telecommunications) via Anagnina 203, 00040 Morena (RM), Italy (negli anni 2005-2009)
- Membro della rete di eccellenza: EURO-NGI (anni 2005-2006), EURO-FGI (anni 2006-2008).

#### **Pubblicazioni**

Nota: Come da consuetudine nel mio settore, gli autori dei lavori appaiono in ordine alfabetico (con l'eccezione di [11] e [30]).

I nomi in grassetto indicano co-autori che erano studenti al tempo della sottomissione. I nomi sottolineati evidenziano i lavori scritti con i miei supervisori (di dottorato o postdottorato).

Pubblicazioni
Numero
Articoli scientifici
27
Altro
5
Totale
32
Pubblicazioni indipendenti
23 (su 32)

## Articoli su riviste internazionali

- Adrian Bock, Karthekeyan Chandrasekaran, Jochen Koenemann, Britta Peis, Laura Sanità. Finding small stabilizers for unstable graphs, 20 pagine. Accettato per la pubblicazione sulla rivista *Mathematical Programming* ad Agosto 2014. (Versione estesa del lavoro in [15])
- Adrian Bock, Laura Sanità. The capacitated orienteering problem, 17 pagine. Accettato per la pubblicazione sulla rivista Discrete Applied Mathematics a Giugno 2014.
- Marco di Summa, David Pritchard, Laura Sanità. Finding the Closest Ultrametric, 14 pagine. Accettato per la pubblicazione sulla rivista Discrete Applied Mathematics a Giugno 2014.
- Jack Edmonds, Laura Sanità. Exponentiality of the exchange algorithm for finding another room-partitioning, *Discrete Applied Mathematics*, Volume 164, Part 1, Pagine 86-91, 2014. (Versione estesa del lavoro in [24])

- Jaroslaw Byrka, Fabrizio Grandoni, Thomas Rothvoss, Laura Sanità. Steiner Tree approximation via iterative randomized rounding, *Journal of the ACM*, Volume 60 Issue 1, 33 pagine, 2013. (Versione estesa del lavoro in [23])
- Nicolai Haehnle, Laura Sanità, Rico Zenklusen. Stable routing and unique-max coloring on trees, SIAM Journal on Discrete Mathematics, 27(1), pagine 109-125, 2013.
- <u>Gianpaolo Oriolo</u>, Laura Sanità, Rico Zenklusen. Network design with a discrete set of traffic matrices, *Operations Research Letters*, Volume 41, Issue 4, pagine 390-396, 2013.
- Adrian Bock, Elyot Grant, Jochen Koenemann, Laura Sanità. The School Bus Problem on Trees, *Algorithmica*, volume 67 (1), pagine 49-64, 2013. (Versione estesa del lavoro in [20])
- Fabrizio Grandoni, Thomas Rothvoss, Laura Sanità. From Uncertainty to Non-Linearity: Solving Virtual Private Network via Single-Sink Buy-at-Bulk, *Mathematics of Operations Research*, Volume 36, No. 2, pagine 185-204, 2011.
- Samuel Fiorini, <u>Gianpaolo Oriolo</u>, Laura Sanità, Dirk Oliver Theis. The VPN problem with concave costs, *SIAM Journal on Discrete Mathematics*, Volume 24, Issue 3, pagine 1080-1090, 2010.
- Fabrizio Grandoni, Gaia Nicosia, <u>Gianpaolo Oriolo</u>, Laura Sanità. Stable Routing under the Spanning Tree Protocol, *Operations Research Letters*, Volume 38, Issue 5, pagine 399-404, 2010.
- Roberto Sabella, Paola Iovanna, <u>Gianpaolo Oriolo</u>, Laura Sanità. Fine protection of data paths in multi-layer network based on the GMPLS paradigm, *Optical Switching and Networking*, 5, pagine 159-169, 2008.

## Articoli su proceedings di conferenze internazionali

- Guru Guruganesh, Laura Sanità, Chaitanya Swamy. Improved Region Growing and Combinatorial Algorithms for k-route Cut Problems, 20 pagine. Accettato per la pubblicazione nei proceedings della conferenza Symposium on Discrete Algorithms (SODA) 2015.
- Andreas Feldmann, Neil Olver, Jochen Koenemann, Laura Sanità. On the Equivalence of the Bidirected and Hypergraphic Relaxations for Steiner Tree, proceedings della conferenza *International Workshop on*

Approximation Algorithms for Combinatorial Optimization Problems (APPROX 2014), pagine 176-191, 2014.

- Adrian Bock, Karthekeyan Chandrasekaran, Jochen Koenemann, Britta Peis, Laura Sanità. Finding small stabilizers for unstable graphs, proceedings della conferenza Integer Programming and Combinatorial Optimization (IPCO 2014) pagine 150-161, 2014.
- Jochen Koenemann, **Sina Sadeghian**, Laura Sanità. *An LMP O(log n)-, Approximation Algorithm for Node Weighted Prize Collecting Steiner Tree*, proceedings della conferenza *Annual IEEE Symposium on Foundations of Computer Science (FOCS)*, pagine 568-577, 2013.
- Jochen Koenemann, **Sina Sadeghian**, Laura Sanità. *Better Approximation Algorithms for Technology Diffusion*, proceedings della conferenza *European Symposium on Algorithms* (ESA), *pagine 637-646*, 2013.
- Thomas Rothvoss, Laura Sanità. 0/1 Polytopes with quadratic Chvatal rank, proceedings della conferenza Integer Programming and Combinatorial Optimization (IPCO), LNCS Volume 7801, 2013, pagine 349-361.
- Adrian Bock, Laura Sanità. On the approximability of two capacitated vehicle routing problems, proceedings della conferenza International Network Optimization Conference (INOC) 2013, ENDS Volume 41, pagine 519-526.
- Adrian Bock, Elyot Grant, Jochen Koenemann, Laura Sanità. The School Bus Problem on Trees, proceedings della conferenza International Symposium on Algorithms and Computation (ISAAC), LNCS Volume 7074, 2011, pagine 10-19.
- <u>Friedrich Eisenbrand</u>, Naonori Kakimura, Thomas Rothvoss, Laura Sanità. Set covering with ordered replacement -- Additive and multiplicative gaps, proceedings della conferenza *Integer Programming and Combinatorial Optimization (IPCO)*, LNCS Volume 6655, pagine 170-182, 2011.
- Christoph Buchheim, Frauke Liers, Laura Sanità. An exact algorithm for robust network design, proceedings della conferenza International Network Optimization Conference (INOC) 2011, LNCS Volume 6701, pagine 7-17.

- Jaroslaw Byrka, Fabrizio Grandoni, Thomas Rothvoss, Laura Sanità. An improved LP-based approximation for Steiner Tree, proceedings della conferenza ACM Symposium on Theory of Computing (STOC), pagine 583-592, 2010.
- Jack Edmonds, Laura Sanità. On finding another room-partitioning of the vertices, proceedings della conferenza *International Symposium on Combinatorial Optimization (ISCO)*, Electronic Notes in Discrete Mathematics 36, 2010, pagine 1257-1264.
- Jaroslaw Byrka, Andreas Karrenbauer, Laura Sanità. The interval constrained 3-coloring problem, proceedings della conferenza 9th Latin American Theoretical Informatics Symposium (LATIN), LNCS Volume 6034, pagine 591-602, 2010.
- Thomas Rothvoss, Laura Sanità. On the complexity of the asymmetric VPN problem, proceedings della conferenza International Workshop on Approximation Algorithms for Combinatorial Optimization Problems (APPROX) 2009, LNCS Volume 5687, pagine 326-338, 2009.
- Paola Iovanna, Gaia Nicosia, <u>Gianpaolo Oriolo</u>, Laura Sanità, **Ezio Sperduto**. Local restoration for trees and arborescences, proceedings della conferenza *International Workshop on Traffic Management and Traffic Engineering for the Future Internet (FITraMEn)* 2008, LNCS Volume 5464, pagine 130-140.

#### Tesi

- Laura Sanità. Robust Network Design, Tesi di dottorato, Università Sapienza di Roma, Gennaio 2009. (La ricerca svolta nella tesi è stata pubblicata nei lavori [7][10][11][27])
- Laura Sanità. Protection strategies for new generation optical networks, Tesi di laurea specialistica, Università di Roma Tor Vergata, Ottobre 2005.

(La ricerca svolta nella tesi è stata pubblicata nel lavoro [12] e nel brevetto [30])

#### Brevetti

• Laura Sanità, <u>Gianpaolo Oriolo</u>, Paola Iovanna, Roberto Sabella. Communication Network, Patent, Numero di Pubblicazione: WO2009106153A1 (3 Settembre 2009) e US20110176438 A1 (21 Luglio 2011). Brevetto assegnato ad Ericsson.

Manoscritti sottomessi per la pubblicazione

- Thomas Rothvoss, Laura Sanità. 0/1 Polytopes with quadratic Chvatal rank, 20 pagine. Sottomesso per la pubblicazione sulla rivista Operations Research. (Versione estesa del lavoro [18]).
- Hossein Efsandiari, Mohammad Hajiaghyiy, Jochen Koenemann, Hamid Mahini, David Malec, Laura Sanità. Approximate Deadline-Scheduling with Precedence Constraints, 12 pagine. Sottomesso per la pubblicazione sui proceedings della conferenza ACM Symposium on Theory of Computing (STOC) 2016.

## Seminari invitati

- Finding small stabilizers for unstable graphs - Industrial Optimization seminar series, Fields Institute, (Toronto, Canada), 2013
- 0/1 Polytopes with quadratic Chvatal rank - Eastern Great Lakes Theory of Computing Workshop 2012 (Buffalo, USA)
- Set covering with ordered replacement - Mixed Integer Programming Workshop 2011 (Waterloo, Canada)

#### **Didattica**

- Docente del corso Deterministic OR Models CO370, University of Waterloo (Anno: 2014)
- Docente del corso Approximation Algorithms CO754,

University of Waterloo (Anno: 2014)

- Docente del corso Introduction to Optimization CO250, University of Waterloo (Anni: 2012 e 2013)
- Docente del corso Combinatorial Optimization CO450 -CO650, University of Waterloo (Anni: 2012 e 2013)
- Docente del corso Network Design, Ecole Polytechnique Federale de Lausanne (Semestre autunnale 2009)
- Docente del corso Advanced methods for network optimization, Università di Roma "Tor Vergata" (Trimestre invernale 2008)
- Docente del corso Network Design and Optimization, Università di Roma "Tor Vergata" (Trimestre invernale 2006)

#### Studenti

## Progetti di ricerca semestrali

- Guru Guruganesh (Undergraduate Research Assistant) 2012 I risultati di questo progetto di ricerca sono oggetto di un articolo [13] che è stato accettato per la pubblicazione sui proceedings della conferenza SODA 2015.
  - Miaolan Xie (Undergraduate Research Assistant) 2013

## Master's students

- Arash Hadadan da Settembre 2013.
- Jaixin Liu (2012-2014) in co-supervisione (50%) con il Prof. Stan

I risultati della sua tesi di laurea sono stati presentati all'ultimo INFORMS annual meeting ad Ottobre 2013.

• Sina Sadeghian (2012-2013) – in co-supervisione (50%) con il Prof. Jochen Koenemann.

I risultati della sua tesi di laurea sono oggetto di due articoli: [17] pubblicato sui proceedings della conferenza *ESA*, e [13] pubblicato su proceedings della conferenza *FOCS*.

• Sezin Afsar (2010-2011) – in co-supervisione (50%) con il Prof. Friedrich Eisenbrand.

## Visiting Ph.D. Students

- Adrian Bock visiting PhD Student per due mesi nel 2012. Il lavoro insieme è oggetto di diversi articoli: [15] pubblicato sui proceedings della conferenza *IPCO*, [8] pubblicato sulla rivista *Algorithmica*, [19] pubblicato sui proceedings della conferenza *INOC*, e [1] accettato per la pubblicazione sulla rivista *Discrete Applied Mathematics*.
  - Hamideh Hosseinzadeh visiting PhD Student per 4 mesi nel 2014.

#### Postdoctoral Fellow

• Andreas Feldman – in co-supervisione (33%) con i professori Jochen Koenemann e Chaitanya Swamy – da Gennaio 2013. Il lavoro insieme è oggetto dell'articolo [13], pubblicato sui proceedings della conferenza APPROX 2014.

• Umang Bhaskar – in co-supervisione (33%) con i professori Jochen Koenemann e Chaitanya Swamy – da Ottobre 2014.



# Short Curriculum Vitae et Studiorum of Frank S. Marzano

Full address:

Prof. Frank S. Marzano

DIET Dept. of Information Engineering, Electronics and Telecom. - Sapienza University of Rome

Via Eudossiana 18 - 00184 Rome, Italy

CETEMPS Centre of Excellence on Remote Sensing and Hydro-meteorology - University of L'Aquila

Via Vetoio, 67010, L'Aquila, Italy

Position:

Associate professor, Sapienza University of Rome, Italy

Director, Centre of Excellence CETEMPS, University of L'Aquila, Italy

Fellow, Royal Meteorological Society, UK

Vice-President, IEEE Geoscience and Remote Sensing Central Italy Chapter (GRSS-29) President, Didactic Area of Electronic Engineering, Sapienza University of Rome

E-mail: Http:

frank.marzano@uniroma1.it, frank.marzano@aquila.infn.it, fsmarzano@ieee.org www.diet.uniroma1.it; cetemps.aquila.infn.it; 151.100.120.244/personale/marzano

Phone numbers: +39.06.44585847 (work)

+39.06.44585918 (fax) +39.320.4357254 (cell.)

Education:

Laurea degree cum laude in Electronic Engineering, Sapienza University of Rome, Italy

Doctorate in Applied Electromagnetics, Sapienza University of Rome, Italy 1993

Research:

Satellite remote sensing of the environment (rain, temperature, water vapor, humidity, cloud liquid, ash) Remote sensing sensors (weather radar, wind profiler radar, microwave radiometer, infrared radiometer) Radar remote sensing of the atmosphere (rain, wind velocity, ash, spatial-temporal fields, polarimetry) Electromagnetic wave propagation (turbulence, clouds and precipitation, microwave, millimeter-wave) Inverse problems in remote sensing (statistical techniques, neural-network methods, physical methods) Radio-propagation for satellite telecommunications (rain fading, scintillation, prediction model, noise) Optical propagation in free space (turbulence, fog, aerosol, precipitation, channel modeling)

Teaching:

Antennas

Radiopropagation and radar meteorology

> Past assigniments:

Radiopropagation Electromagnetic propagation

Antennas II and radar meteorology

Antennas II Antennas I

Remote sensing of the atmosphere Antennas and microwaves Elecromagnetic fields

Fac. di Ingegneria, Sapienza University of Rome, Italy Fac. di Ingegneria, Sapienza University of Rome, Italy

Fac. di Ingegneria, Sapienza University of Rome, Italy

Fac. di Ingegneria, Sapienza University of Rome, Italy Fac. di Ingegneria, Sapienza University of Rome, Italy Fac. di Ingegneria, Sapienza University of Rome, Italy

Fac. di Ingegneria, Sapienza University of Rome, Italy Fac. di Scienze MFN, Univ. of L'Aquila, Italy Fac. di Ingegneria, Univ. of L'Aquila, Italy Fac. di Ingegneria, Univ. of L'Aquila, Italy

Bibliometry:

Based on SCOPUS, update on Sept. 2014

Score Full Prof. Median (ING-INF/02) 80 30

8

21.14

n. of normalized papers (2003-2013): n. of total citations, normalized to the academic age: 57.74 H-index contemporary: 14

n. of journal papers (2003-2013): 103 n. of total citations: 1328 H-index: 19

Biography. He was born on May 3, 1963 in Jersey City (NJ, USA). He received the Laurea degree (cum laude) in Electrical Engineering (1988) and the Ph.D. degree (1993) in Applied Electromagnetics both from the Sapienza University of Rome, Italy. In 1992 he was a visiting scientist at Florida State University, Tallahassee, FL. During 1993 he collaborated with the Institute of Atmospheric Physics, National Council of Research (CNR), Rome, Italy. From 1994 till 1996, he was with the Italian Space Agency, Rome, Italy, as a post-doctorate researcher. After being a lecturer at the University of Perugia, Italy, in DIPARTIMENTO DI Ingegneria dell'Informazione Elettronica e Telecomunicazioni



1997 he joined the Department of Electrical Engineering, University of L'Aquila, Italy teaching courses on electromagnetic fields as Assistant Professor. In 1999 he was at Naval Research Laboratory, Monterey, CA, as a visiting scientist. In 1999 he In 2002 he got the small fraction.

In 2002 he got the qualification to Associate Professorship and has co-founded Centre of Excellence on Remote Sensing and Hydro-meteorology (CETEMPS) of the University of L'Aquila, becoming the head of the Satellite and Radar Remote Sensing Laboratory (which he still coordinates). In 2005 he finally joined the Dept. of Electronic Engineering, now Dept. of Information Engineering, Electronics and Telecommunications (DIET), Sapienza University of Rome, Italy where he presently teaches courses on antennas, propagation and remote sensing. In 2006 he was nominated President of the HIMET company, L'Aquila and Rome, Italy. Since 2007 he has been acting as vice-director of the CETEMPS Centre of Excellence of the University of L'Aquila and nominated Director of CETEMPS on March 2013.

Research. His current research concerns passive and active remote sensing of the atmosphere from ground-based, airborne, and space-borne platforms, with a particular focus on clouds and precipitation using microwave, millimeter-wave and visible-meteorology for rain, wind and ash retrieval and synthetic aperture radar data processing for atmospheric and land-use adding modeling, data analysis along satellite microwave and millimeter-wave links and free space optical links.

He is a member of the Executive Board of the Centre of Excellence in Remote Sensing and Hydro-Meteorology (CETEMPS) in L'Aquila (Italy), the CIMA Research Foundation in Savona (Italy), the Centre of Research on Hydro-geological Risk (CERI) in Colleferro (Rome, Italy) and the Centre of Research in Aerospace Sapienza (CRAS).

Within 2001-2005 he was the Italian national delegate for the European COST actions n. 720 and n. 280; since 2008 he is the national delegate for the 5-year European COST Action project ES702 "EGCliMet" and COST Action project IC0802 "PropTNEO". Since 2010 he is a member of the European Volcanic Ash Cloud Expert Group (EVACEG) and since 2011 he is the national vice-delegate for the 5-year European COST Action project IC1101 "OpticWISE" and co-chairman of its physical modeling working group. In 2009 he became a member of the Science team of the Global Precipitation Mission (GPM) and in 2012 he has been nominated member of EuMetSat Precipitation Science Advisory Group (P-SAG) and PostEP MWI-ICI Science Advisory Group (MWI-ICI SAG).

Publications. Dr. Marzano has published more than 120 papers on refereed international Journals, edited 7 journal special issues, 15 contributions to international Book Chapters, more than 260 Extended Abstracts on international Conference Proceedings and more than 150 Short Abstracts in national and international conferences. He is the Editor, together with G. Visconti, of the book "Remote sensing of atmosphere and ocean from space: models, instruments and techniques", Kluwer Acad. Plub., Dordrecht (NL), 2002 and together with D. Cimini and G. Visconti of the book "Integrated Ground-Based Observing Systems Applications: for Climate, Meteorology, and Civil Protection", Springer-Verlag (Berlin, D). In 2010-13 he has been Section Editor of the Springer's "Encyclopedia of Remote Sensing", published in 2014. He co-published a university textbook on "Antennas foundation and electromagnetic radiation", Carocci 2011 (IT) in Italian.

He is a reviewer for the major international journals in remote sensing and radiopropagation (e.g., IEEE Trans. Geosci. Rem. Sens., IEEE Ant. Propagat., IEE Ant. Propagat., AGU Radio Sci., AMS J. Appl. Meteor., AMS J. Atm. Science, AMS J. Ocean. Atm. Tech). In 2005 and 2007 he has been Guest Co-Editor of the MicroRad04 and MicroRad06 Special Issues for IEEE Trans. Geosci. Rem. Sensing. In 2012-13 he has acted as a Guest Editor of the special issue on troposheric profiling for EGU Atmospheric Measurement Techniques (AMT).

From January 2004 till June 2014 he has been acting as an Associated Editor of IEEE Geoscience Remote Sensing Letters (GRSL) and since mid 2014 he is Associated Editor of IEEE Transactions on Geoscience and Remote Sensing (TGRS). Since 2011 he is also Associate Editor of EGU Atmospheric Measurement Techniques (AMT) journal.

> A list of peer-reviewed publications since 1993 is reported in the Appendix A of this CVS.

Organization. In 2000 Dr. Marzano was the director of the first edition of the International Summer School on Atmospheric and Oceanic Sciences (ISSAOS), held in L'Aquila and now at its 13<sup>th</sup> edition. In 2004 he has been appointed Co-Director of the Fourth Hydro-meteorological Radar School held during the 6<sup>th</sup> EGS Plinius Conference. He has been the Co-chairman of the Workshop on "Integrated Ground-Based Remote Sensing Stations for Atmospheric Profiling" held in L'Aquila on 19-21 June 2002, the Co-chairman of the Congress "Specialist Meeting on Microwave Radiometry and Remote sensing Applications (MicroRad'04)", held in Roma on 24-27 Feb. 2004 and the Co-chairman of the 8<sup>th</sup> Management Committee of the project meeting COST-280 on fade impairment techniques, held in Roma on 4-5 Nov. 2004. Dr. Marzano is a current member of the Technical Program Committees of the Microwave Radiometry and Remote Sensing Applications (MicroRad), the International Geoscience And Remote Sensing Symposium (IGARSS) and the European Radar Conference (ERAD). In 2008 he has been nominated Italian delegate within the European COST project ES0702 "EG-ClimNet" and the COST project IC0802 "PropTNEO". Since 2010 he is a member of the European Volcanic Ash Cloud Expert Group (EVACEG). In 2011 he has been nominated national vice-delegate within the COST project IC1101 "OpticWiSE". He is the Co-Chairman of the 9<sup>th</sup> International Symposium of Tropospheric Profiling (ISTP9), to be held in L'Aquila (Italy) on 7-9 Sept. 2012. In 2013 he was the director of 13<sup>th</sup> ISSOAS-2013 international summer school on "Weather forecasting: form science to public", held in



L'Aquila (Italy) on 9-13 Sept. 2013. Since June 2013 he is the President of the Didactic Area of Electronic Engineering, Sapienza University of Rome with more than 800 enrolled students.

Teaching. Dr. Marzano has been teaching at the University of L'Aquila, University of Perugia and at the Sapienza University of Rome courses on Electromagnetic Fields, Antennas, Propagation and Remote sensing of the Atmosphere. He has been tutor of more than 120 undergraduate students, more than 50 graduate students and 19 Ph.D. students. Since June 2013 he has been acting as President of the Didactic Area of Electronic Engineering at Sapienza University of Rome.

He has been a member of the Doctorate in Electrical and Information Engineering of the University of L'Aquila, the Doctorate in Environmental Monitoring of the University of Basilicata and is currently member of the Doctorate in ICT Radar and Remote Sensing of the Sapienza University of Rome. Dr. Marzano has been a lecturer on remote sensing techniques and wave propagation in several National and International Conferences and Schools.

Projects. Since 1991 Dr. Marzano has been participating to several international research projects (e.g., GPCP-AIP-2, GPCP-AIP3, NASA-PIP2, NASA-PIP3, EU-COST-712, EU-COST-255, and recently EU-COST-ES0702 in 2008, EU-COST-IC802 in 2008), European-Union funded projects (e.g., STORM within 3th EU-FP in 1990, MEFFE within 3th EU-FP 1993, EuroTRMM within 4th EU-FP in 1996, EuRAINSAT within 5th EU-FP in 1999, RiskAWARE within INTERREG III-B CADSES in 2004, HydroRad within the 7th EU-FP in 2009), and ESA-funded research studies related to meteorological satellite missions (e.g., DMSP, TRMM, ENVISAT, MSG, and recently SAR-Metawave and Wband-Deep-Space in 2008). He was involved within the ENVISAT calibration team in 2001 and Co-PI within Italian Space Agency (ASI), Italian National Research Council (CNR), Department of Civil Protection (DPC) and EUMETSAT research projects (e.g., SatPrecip with ASI in 1999, Scatterometry within ASI in 2000, MeditRain within ASI in 2000, RAM within GNDCI-CNR in 2003, Eurainsat-MSG within EUMETSAT in 2005, Proscenio within DPC in 2006. He has been principal investigator of the IDRA project within DPC since 2007-2012, FLORAD satellite mission with ASI in 2008, HYDRORAD project within EC FP7 calls in 2009-2011, HYDREX within EC FP/ MarieCurie call since 2010-2012, ADRIARadNet within IPA-Adriatic call). He is also a consultant of national engineering companies, international agencies and Italian ministries, involved in design and evaluation of information engineering and remote sensing systems.

In particular, from 2001 till 2006 he has been acting as the Italian national delegate for European COST Action n. 720 on "Integrated ground-based remote sensing stations for Atmospheric profiling" and COST Action n. 280 on "Propagation impairment mitigation for millimeter wave radio systems". In 2002 he contributed to the planning and design of the new national radar network within a project of the Italian Dept. of Civil Protection and since then he is a member of the Italian Technical Committee on the National Radar Network. Since 2006 he the principal investigator (PI) of the 3+3 year IDRA project about hydro-meteorological modeling and radar meteo-volcanology, sponsored by the National Department of civil Protection (DPC), Rome, Italy and renewed on 2009 till 2012. Since 2006 he is president of the HIMET spin-off company, L'Aquila (Italy) focused on high innovation in meteorology and environmental technology. Since 2006 he is also PI for CETEMPS of the 9-year Region Abruzzo project (L'Aquila, Italy) about regional civil protection support to hydro-geological risk decision. Since 2008 he is the Italian national delegate for the 5-year European COST Action project n. ES702 on the "European Ground-based observations of essential variables for CLImate and operational METeorology (EGCliMet)" and COST Action 5-year project n. IC0802 on "Propagation tools and data for integrated Telecommunication, Navigation and Earth Observation systems". In 2008 he coordinated as Principal Investigator the Phase-A feasibility study of the satellite constellation small-mission FLORAD project about the exploitation of Flower elliptical-orbit constellations for tropospheric profiling at regional scale, funded by the Italian Space Agency (ASI) and involving the major information-technology Italian industries. Since 2009 he is PI of the 2-year RainXSAR project, sponsored by the Italian Space Agency (ASI) and AtmoXSAR, sponsored by German Aerospace Agency (DLR, Germany) on atmospheric effects upon X-SAR measurements. In 2009 he has become member of Science Team of the NASA-JAXA Global Precipitation Measuring (GPM) mission with a proposal on "MicroRainSAR: Precipitation retrieval from X-band synthetic aperture radar (SAR) constellation over land at micro-alpha scale". In 2009 he coordinated the 2-year European project HYDRORAD with 3 small-medium Committmentrprises and 4 European partners from Italy, Greece and Cyprus about the exploitation of low-cost X-band polarimetric mini-radar networks. In 2010 he was coordinator of the biannual European Marie Curie project HYDREX about X-band radar hydro-meteorology. In 2011 he has been nominated national vice-delegate for the European COST project n. IC1101 on "Wireless Optical Communication". Since January 2012 he is member of the Precipitation Science Advisory Group (P-SAG) of EuMetSat and in 2013 member of PostEPS MWI-ICI Science Advisory Group (SAG). In 2012-15 he was the coordinator of the 2.5-year European project ADRIARadNet, involving 7 European partners from Italy, Croatia and Albania, about the development of hydrometeorological data decision support systems in the Adriatic basin.

> A detailed list of funded projects is reported in the Appendix B of this CVS.

Honours. Dr. Marzano was the recipient of a fellowship award from Elettronica S.p.A. (Rome, Italy) for researches on microwave radiometry in 1990. In 1993 he received the Young Scientist Award of XXIV General Assembly of the International Union of Radio Science (URSI). In 1998 he was the recipient of the Alan Berman Publication Award (ARPAD) from the Naval Research Laboratory, Washington, DC. Since 2003 he is a Senior Member of the Institute of Electrical and Electronic Engineers (IEEE) and of the IEEE Geoscience and Remote Sensing Society, since 2000 a member of the Italian



Society of Electromagnetism (SIEm) and since 2010 a member of European Association on Antennas and Propagation (EurAAP). Since 2005 he has been the Secretary and then vice-Chair of the IEEE GRS-Chapter n. 21 South-Central Italy. In 2008 he received the Best Paper Award from the EGU-Plinius2008 Conference (Nicosia, Cyprus), whereas in 2009 he received the Best Paper Awards from the European Conference on Antennas and Propagation (EuCAP2009), held in Berlin (Germany). In 2011 he received the Best Presentation Award from the EGU-Plinius2011 Conference (Savona, Italy). In 2012 he has been nominated Fellow of the Royal Meteorological Society (RMetS). He is also member of Amnesty International (Rome, Italy), World Wild Fund (Rome, Italy), "Medici Senza Frontiere" (Rome, Italy) and "Save The Children" Association (Rome, Italy).

# APPENDIX A. LIST OF FUNDED PROJECTS

CNR-Estremi	2000-2001	Research-unit coordinator DIEL-UNIVAQ (Studio di eventi estremi; Committment: CNR-GNDCL Italy: Project coordinator: A. Maria i F.
FP5-EuRainSat	2001-2003	Research-unit coordinator DIFL-UNIVAC (Furnamental Vivalence)
MURST-CETEMPS	2001-2004	Project coordinator: V. Levizzani; Funds: 120 kEu/3 years)  Research-unit coordinator of Remote Sensing Lab. (CETEMPS: Integrazione di tecniche di telerilevamento e modellistica numerica per la provisione di
ASI-Mare	2001-2002	meteorologici estremi; Committment: MURST, Italy; Project coordinator: G. Visconti; Funds: 600 kEu/3years) Research-unit coordinator DIEL-UNIVAQ (Telerilevamento del mare mediante scatterometro: modelli elettromagnetici, inversione dei dati ed applicazione a modelli di circolazione; Committment: ASI, Italy; Project coordinator: M. Migliaccio; Funds: 37.5 kEu/2years)
ASI-MeditRain	2002-2004	Research-unit coordinator DIEL-UNIVAQ (Spaceborne remote sensing of rainfall in the Mediterranean basin; Committment: ASI, Italy; Project coordinator: A. Mugnai; Funds: 56 kEu/2years)
CNR-RAMI	2003-2004	Research-unit coordinator DIEL-UNIVAQ (RAMI: Ricerca applicata in Meteo- idrologia; Committment: CNR-GNDCI, Italy; Project coordinator: G. Roth; Funds: 72 kEu/2years)
IntReg-RiskAWARE	2004-2006	Research-unit coordinator CETEMPS-UNIVAQ (RiskAWARE: Risk analysis and weather hydrometeorological alarming by inter-regional experiments; Committment: Interreg IIIB CADSES, European Commission; Project coordinator: P.P. Alberoni; Funds: 215 KEu/3 years)
CIMA-Proscenio	2005-2007	Research-unit coordinator DIE-Sapienza (Proscenio: Progetti di protezione civile: applicazioni di radar meteorologia; Committment: CIMA, Italy; Project coordinator: F. Siccardi; Funds: 120 kEu/3years)
DPC-IDRA	2006-2009	Project coordinator and Research-unit coordinator CETEMPS (IDRA: Integrazione di Dati di Rilevamento Atmo-idro-sferico; Committment: DPC, Italy; Project coordinator: F.S. Marzano; Funds: 750 kEu/3years)
ASI-WAVE	2006-2006	Research-unit coordinator DIE-Sapienza (WAVE: W-band and V-band space communication experiment; Committment: ASI-UniTOV, Italy; Project coordinator: M. Ruggeri; Funds: 6 kEu/lyear)
RegAB-CFA	2007-2016	Project coordinator and Research-unit coordinator CETEMPS (CFA: supporto tecnico-scientifico al Centro funzionale di Protezione civile della Regione Abruzzo; Committment: Region Abruzzo, Italy; Project coordinator: F.S. Marzano; Funds: 300 kEu/lyear x 9 years)
MIUR-Aeroclouds	2005-2008	Research-unit coordinator CETEMPS (Aeroclouds: Monitoraggio aereo dell'atmosfera; Committment: MIUR e CNR, Italy; Project coordinator: C. Tomasi; Funds: 60 kEu /3years)
ASI-FloRad	2006-2006	Project coordinator and Research-unit coordinator DIE-Sapienza (FLORAD: Costellazione FLOreale micro-satellitare di RADiometri in banda millimetrica per l'Osservazione della Terra e dello Spazio a scala regionale, Committment: ASI, Italy; Conctract n. DC-PRZ-2007-002; Project coordinator: F.S. Marzano; Funds: 700 kEu/lyear)
Sapienza- XCen	2007-2007	Project coordinator and Research-unit coordinator DIE-Sapienza (XCen: Radar meteorologia a microonde: modelli di inversione per applicazioni vulcanologiche; Committment: Sapienza UniRoma, Italy; Project coordinator: F.S. Marzano; Funds: 2.5 kEu/lyear)



ASI-Nowcasting	2008-2011	Research-unit coordinator DIE-Sapienza (Nowcasting: atmopehric monitoring and
Sapienza-Xcen2	2009-2009	CNR, Italy; Project coordinator: F. Prodi; Funds: 60 kEu/3years)  Project coordinator and Research wit coordinator.
DPC-IDRA2	2009-2012	Sapienza UniRoma, Italy; Project coordinator: F.S. Marzano; Funds: 5 kEu/lyear)  Project coordinator and Research-unit coordinator CETEMPS (IDRA2: Integrazione di Dati di Rilevamento Atmo-idro-sferico 2º ciclo: Committenenti DRA2: Integrazione
FP7-HydroRad	2009-2011	Project coordinator and Research-unit coordinator HIMET (HydroRad: Integrated advanced distributed system for hydro-meteorological monitoring and forecasting using low-cost high-performance X-hand mini-rodes and settled
FP7-HydrEx	2010-2012	Research call for SMEs Call 2 Call identifier FP7-SME-2008-1. Project GA n. 232156; Committment: EC-FP7, European Commission; Project coordinator: F.S. Marzano; Funds: 1100 kEu /2years)  Project coordinator and Research-unit coordinator DIET-Sapienza: (HydrEx: Advancing small-scale hydro-meteorological predictions through mobile X-band dual-polarization radar systems: methods, algorithms and applications, Call: FP7-PEOPLE-2008-2-1-IEF, Project GA n. 236871; Committment: EC-FP7 Marie Curie Intra-European Fellowships (IEF), European Commission; Project coordinator: F.S. Marzano; Funds: 186 kEu /2years)
Sapienza-SARWat	2011-2011	Funds: 186 kEu /2years)  Project coordinator and Research-unit coordinator DIET-Sapienza: (SARWat. Obiettivo: Telerilevamento spaziale di precipitazioni e inondazioni mediante radar ad apertura sintetica: modelli, metodi e applicazioni; Committment: Sapienza UniRoma, Italy: Project coordinator: F.S. Marzano;
AFL-HiRadProp	2012-2014	Italy; Project coordinator: F.S. Marzano; Funds: 35 kEu /1year)  Project coordinator and Research-unit coordinator DIET-Sapienza (HiRadProp: High-frequency modeling and prediction of troposheric radiopropagation parameters from ground-based multi-channel radiometric measurements between Ka and W band; Committment: AFL-EOARD, USA; Project coordinator: F.S. Marzano; Funds: 190 kEu
IPA-ADRIARadNet	2012-2015	Project coordinator and Research-unit coordinator CETEMPS (ADRIARadNet: ADRIAtic integrated RADar-based and web-oriented information processing system NETwork to support hydro-meteorological monitoring and civil protection decision, Call: IPA Adriatic Cross-border Cooperation Programme 2007-2013, Project GA p.
FP7-APHORISM	2013-2016	0231; Committment: EC-IPA, European Commission; Project coordinator: F.S. Marzano; Funds: 2811 kEu /2years) Research-unit coordinator DIET-Sapienza (APHORISM: ADRIAtic integrated RADarbased and web-oriented information processing system NETwork to support hydrometeorological monitoring and civil protection decision, Call for proposals FP7-SPA-2013.1.1-07. Project GA n. 606738; Committment: EC-FP7, European Commission;
Sapienza- TexTILEs	2014-2015	Project coordinator: F.S. Marzano; Funds: 1100 kEu /2years)  Project coordinator and Research-unit coordinator DIET-Sapienza (TexTILEs: Technology Evaluation for X-band Three-dimensional Integrate, Lightweight and Economical radar systems for Earth observation; Committment: Sapienza UniRoma, Italy; Project coordinator: F.S. Marzano; Funds: 12 kEu /1.5years)
ESA-RadioMetOP	2013-2014	Project co-coordinator and Research-unit coordinator CRAS-Sapienza (RadioMetOP: Improving Data Return in Ka Band by Use of Weather Forecast - Radio-METeorological Operations Planner at Ka band); Project n. HSO-GS/2365/ML; Committment: ESA-ESOC, Germany; Project coordinator: L. Iess and F.S. Marzano;
FP7-Earth2Observe	2014-2017	Funds: 83 kEu /1year) Research-unit coordinator DIET-Sapienza (Earth2Observe: Global Erath Observation for integrated water resource assessment, Call for Proposal FP7-ENV-2013-two-stage. Project GA n. 603608; Committment: EC-FP7, European Commission; Project coordinator: F.S. Marzano; Funds: 328.6 kEu /4years)



# APPENDIX B. LIST OF PEER-REVIEWED PUBLICATIONS

## A) Pubbications on International journals (with revision and ISSN codes):

- d'Auria G., F.S. Marzano, and U. Merlo, "Model for estimating the refractivity structure constant in intermittent clear air", Appl. Opt., ISSN: 0003-6935, vol. 32, pp. 2674-2680, 1993.
- Basili P., P. Ciotti, G. d'Auria, F.S. Marzano, N. Pierdicca, and P. Quarto, "Assessment of polarimetric features to discriminate [A.2] land cover from Maestro-1 Experiment", Int. J. Remote Sens., ISSN: 0143-1161, vol. 15, pp. 2887-2899, 1994. [A.3]
- Turk J., J. Vivekanandan, F.S. Marzano, R. Spencer, and R.E. Hood, "Active and passive remote sensing of precipitating storms during CaPE. Part I: Advanced Microwave Precipitation Radiometer and polarimetric radar measurements and models", Meteor. Atmospheric Physics, ISSN: 0177-7971, vol. 54, pp. 3-27, 1994.
- Marzano F.S., A. Mugnai, E.A. Smith, X. Xiang, J. Turk, and J. Vivekanandan, "Active and passive remote sensing of [A.4] precipitating storms during CaPE. Part II: Intercomparison of precipitation retrievals from AMPR radiometer and CP-2 radar", Meteor. Atmospheric Physics, ISSN: 0177-7971,vol. 54, pp. 29-51, 1994.
- Basili P., P. Ciotti, G. d'Auria, F.S. Marzano, and N. Pierdicca, "Use of spaceborne multispectral microwave radiometry for [A.5]
- precipitation remote sensing", Alta Freq., ISSN: 1120-1908, vol. 6, pp. 109-111, 1994.

  Marzano F.S. and G. d'Auria, "Estimation of intermittent scintillation on microwave links from meteorological data", Alta Freq., [A.6] ISSN: 1120-1908, vol. 6, pp. 94-96, 1994.
- Ciotti P., P. Basili, G. d'Auria, F.S. Marzano, and N. Pierdicca, "Microwave radiometry of the atmosphere: an experiment from a [A.7] sea-based platform during ERS-1 altimeter calibration", Int. J. Remote Sens., ISSN: 0143-1161, vol. 16, pp. 2341-2356, 1995.
- Pierdicca P. and F.S. Marzano, "Observing storm clouds by space-borne multifrequency microwave radiometers", Earth Observ. [A.8] Quart., ISSN: 0256-596X, vol. 49, pp. 7-12, 1995.
- Levizzani V., F. Porcù, F.S. Marzano, A. Mugnai, E.A. Smith, and F. Prodi, "Investigating a SSM/I microwave algorithm to [A.9]
- calibrate METEOSAT infrared instantaneous rainrate estimates ", Meteor. Applications, ISSN: 1350-4827, vol. 3, pp. 5-17, 1996. Pierdicca N., F.S. Marzano, G. d'Auria, P. Basili, P. Ciotti, and A. Mugnai, "Precipitation retrieval from spaceborne microwave [A.10] radiometers using maximum a posteriori probability estimation", IEEE Trans. Geosci. Remote Sens., ISSN: 0196-2892, vol. 34, pp. 831-846, 1996.
- Boni G., M. Conti, S. Dietrich, L. Lanza, F.S. Marzano, A. Mugnai, G. Panegrossi, and F. Siccardi, "Multisensor observations [A.11] during the event of November 4-6, 1994 over Northern Italy", Rem. Sens. Review, ISSN: 0275-7257, DOI:10.1080/02757259609532314, vol. 14, pp. 91-117, 1996.
- Peeters G., F.S. Marzano, G. d'Auria, C. Riva, and D. Vanhoenacker-Janvier, "Evaluation of statistical models for clear-air [A.12] scintillation using Olympus satellite measurements", Int. J. Satell. Commun., ISSN: 0737-2884, vol. 15, pp. 73-88, 1997.
- Panegrossi G., S. Dietrich, F.S. Marzano, A. Mugnai, E.A. Smith, X. Xiang, G.J. Tripoli, P.K. Wang, and J.P.V. Poiares Baptista, [A.13] "Use of cloud model microphysics for passive microwave-based precipitation retrieval: significance of consistency between model and measurement manifolds", J. Atmos. Sci., ISSN: 0022-4928, vol. 55, pp. 1644-1673, 1998.
- Turk J., F.S. Marzano, and A. Mugnai, "Effects of degraded sensor resolution upon passive microwave precipitation retrievals of [A.14] tropical rainfall", J. Atmos. Sci., ISSN: 0022-4928, vol. 55, pp. 1689-1705, 1998.
- [A.15] Smith E.A., J. Lamm, R. Adler, J. Alihouse, K. Aonashi, E. Barrett, P. Bauer, W. Berg, A. Chang, R. Ferraro, J. Ferriday, S. Goodman, N. Grody, C. Kidd, C. Kummerow, G. Liu, F.S. Marzano, A. Mugnai, W. Olson, G. Petty, A. Shibata, R. Spencer, F. Wentz, T.T. Wilheit, and E. Zipser, "Results of WetNet PIP-2 project", J. Atmos. Sci., ISSN: 0022-4928, vol. 55, pp. 1483-1536,
- d'Auria G., F.S. Marzano, N. Pierdicca, R. Pinna Nossai, P. Basili, and P. Ciotti, "Remotely sensing cloud properties from [A.16] microwave radiometric observations by using a modeled cloud database", Radio Sci., ISSN: 0048-6604, vol. 33, pp. 369-392,
- Marzano F.S. and G. d'Auria, "Model-based prediction of amplitude scintillation variance due to clear-air tropospheric turbulence [A.17] on earth-satellite microwave links", IEEE Trans. Antennas Propagat., ISSN: 0018-926X, vol. 46, pp. 1506-1518, 1998.
- Marzano F.S., A. Mugnai, G. Panegrossi, N. Pierdicca, E.A. Smith, and J. Turk, "Bayesian estimation of precipitating cloud [A.18] parameters from combined measurements of spaceborne microwave radiometer and radar", IEEE Trans. Geosci. Remote Sens., ISSN: 0196-2892, vol. 37, pp. 596-613, 1999.
- Marzano F.S., C. Riva, A. Banich, and F. Clivio, "Assessment of model-based scintillation variance prediction on long-term basis [A.19] using Italsat satellite measurements", Int. J. Satell. Commun., ISSN: 0737-2884, vol. 17, pp. 17-36, 1999.
- [A.20] Marzano F.S., E. Fionda, and P. Ciotti, "Simulation of radiometric and attenuation measurements along earth-satellite links in the 10- to 50- GHz band through horizontally-finite convective raincells", Radio Sci., ISSN: 0048-6604, vol. 34, pp. 841-858, 1999.
- Marzano F.S. and C. Riva, "Evidence of long-term correlation between clear-air scintillation and attenuation in microwave and [A.21] millimeter-wave satellite links", IEEE Trans. Antennas Propagat., ISSN: 0018-926X, vol. 47, pp. 1749-1757, 1999.
- Bauer P., A. Khain, I. Sednev, R. Meneghini, C. Kummerow, and F.S. Marzano, "Combined cloud-microwave radiative transfer [A.22] modeling of stratiform rainfall", J. Atmos. Sci, ISSN: 0022-4928, vol. 57, pp. 1082-1104, 2000.
- Pierdicca N., F.S. Marzano, L. Guerriero, and P. Pampaloni, "On the effect of atmospheric emission upon passive microwave [A.23] polarimetric response of azimuthally anisotropic sea surface", J. Electromag. Waves Appl. - PIER, ISSN: 1559-8985, vol. 14, pp. 355-358, 2000.



- [A.24] Marzano F.S., L. Roberti, and A. Mugnai, "Impact of incoherent backscattering upon radar echoes above 10 GHz", Phys. and Chem. of the Earth Part B, ISSN: 1474-7065, vol. 25, n. 10-12, pp. 943-948, 2000.
- [A.25] Marzano F.S. and P. Bauer, "Sensitivity analysis of airborne microwave retrieval of stratiform precipitation to the melting layer
   [A.26] Marzano F.S., J. Turk P. Ciotti S. Di Michala and N. Bright Physics (196-2892, vol. 39, pp. 75-91, 2001.
- [A.26] Marzano F.S., J. Turk, P. Ciotti, S. Di Michele, and N. Pierdicca, "Potential of combined spaceborne microwave and infrared radiometry for near real-time rainfall attenuation monitoring along earth-satellite links", *Int. J. Satell. Commun.*, ISSN: 0737-2884, vol. 19, n. 4, pp. 385-412, 2001.
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- [A.28] Basili P., S. Bonafoni, P. Ciotti, F.S. Marzano, G. d'Auria, and N. Pierdicca, "Retrieving atmospheric temperature profiles from microwave radiometers using a priori information on spatial-temporal correlation", IEEE Trans. Trans. Geosci. Remote Sens., 1986-1905, 2001.
- [A.29] Smith E.A., P. Bauer, F.S. Marzano, C.D. Kummerow, D. McKague, A. Mugnai and G. Panegrossi, "Intercomparison of microwave radiative transfer models for precipitating clouds", *IEEE Trans. Geosci. Remote Sens.*, ISSN: 0196-2892, vol. 40, pp. 541-549, 2002.
- [A.30] Marzano F.S., E. Fionda, P. Ciotti and A. Martellucci, "Ground-based multi-frequency microwave radiometry for rainfall remote sensing", IEEE Trans. Geosci. Rem. Sens., ISSN: 0196-2892, vol. 40, pp. 742-759, 2002.
- [A.31] Bauer P., J.F. Mahfouf, W.S. Olson, F.S. Marzano, S. Di Michele, A. Tassa, and A. Mugnai, "Error analysis of TMI rainfall estimates over ocean for variational data assimilation", *Quart. J. Roy. Meteor.*, ISSN: 0035-9009, vol. 128, pp. 2129-2144, 2002.
- [A.32] Pulvirenti L., N. Pierdicca, F.S. Marzano, P. Castracane and G. d'Auria, "A Physical-Statistical Approach to Match Satellite 4, pp. 2271-2284, 2002.
- [A.33] Marzano F.S. and C. Riva, "Cloud-induced effects on long-term amplitude scintillation along millimeter-wave slant paths", *IEEE Trans. Antennas Propagat.*, ISSN: 0018-926X, vol. 51, n. 4, pp. 880-887, 2003.
   [A.34] Marzano F.S. and L. Roberti "Numerical investigation of interest in 1.8.
- [A.34] Marzano F.S. and L. Roberti, "Numerical investigation of intense rainfall effects on coherent and incoherent slant-path propagation at K band and above", *IEEE Trans. Antennas Propagat.*, ISSN: 0018-926X, vol. 41, n. 5, pp. 965-977, 2003.
   [A.35] Marzano F.S., L. Roberti, Di Michele S. A. Tosso and A. Marzano F.S., the supervision of the control o
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- [A.36] Tassa A., S. Di Michele, A. Mugnai, F.S. Marzano, and P. Poiares Baptista, "Cloud-model based Bayesian technique for doi:10.1029/2002RS002674, 2003.
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#### **CURRICULUM VITAE**

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#### PERSONAL DATA

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#### EMPLOYMENT SUMMARY

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Sept. 2001 - ... Member of the "Institut Universitaire de France"

Sept. 1998 - June 2012 Professeur d'Université, section 28,

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Jan. 1997 - Aug. 1998 Maître assistant,

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en physique des MAtériaux (IRRMA) de Lausanne,

Université de Geneva

Nov. 1994 - Dec. 1996 Miller Research Fellow,

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**EDUCATION** 

Oct. 1990 - Oct. 1994 Doctoral studies:

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en physique des MAtériaux (IRRMA) de Lausanne,

Université de Geneva and

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Ph.D in physics: 30/30 cum laude

Oct. 1985 - Jul. 1990 Undergraduate studies:

Universitá di Pisa

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# PHD THESIS DIRECTION

#### RESEARCH ACHIEVEMENTS

My activity focuses on the prediction of the physical properties of complex materials using first-principles electronic structure methods, and the development of original conceptual developments, methods, and algorithms to treat interacting electrons. A the "Institut de Minéralogie et de Physique des Milieux Condensés" I established and head a research group in quantum theory of materials that involves 6 permanent researchers. My principal research achievements are on:

Simulation of spectroscopies. I have given particular emphasis to collaboration with experimental groups in very diverse fields, and to the use of ab-initio calculations to predict and interpret spectroscopic data (NMR, XANES, X-ray magnetic dichroism, IR, Raman, EPR spectra). I have pioneered several original developments in this field especially for magnetic spectroscopies in extended systems and applied all these methods extensively, with e.g. many recent notable applications in vibrational spectroscopies for carbon nanotubes and graphene. One important example is the development the first theory for the first-principles calculation of NMR/EPR parameters in solids. Previous methods (of the quantum chemistry community) could deal only with finite systems (molecules isolated in vacuum). Our new theory has been implemented in two electronic structure codes, a free-ware package (within the Quantum Espresso Distribution) and a commercial code commercialized by Accelry (Castep-NMR). Part of the royalties of Castep-NMR is paid to the University of Paris 6. I have been working in collaboration with several experimental NMR groups in France and UK to use the NMR codes for the interpretation of NMR spectra in silicate crystals and glasses, in zeolites, in biomolecular crystals, water, minerals, and in boron-rich materials. The two codes are nowadays widely used within the experimental community of solid-state NMR. Beside NMR and EPR, I have developed methods and codes for the efficient simulation of Raman, IR and Xanes spectra, for the non-linear electrical susceptibility, the magnetic susceptibility, and the orbital magnetization. Recently I identified very large non-adiabatic effects in the Raman spectra of carbon-nanotubes, graphene and, more in general, in layered metals. The inclusion of such effects is crucial to interpret experimental data these systems.

Phonon-mediated superconductivity. The coupling of phonons with electrons is another important topic of my research. I studied several phonon mediated superconductors, identifying the most relevant phonons and and electron-phonon interactions. I studied the origin of superconductivity-variation in Te under pressure. In MgB2, I extracted from experimental inelastic X-ray scattering data, the electron-phonon coupling parameters. I studied the effects of magnetism and doping on the electron-phonon coupling in BaFe<sub>2</sub>As<sub>2</sub>. I suggested that highly doped diamond (BC<sub>5</sub>) and hole-doped icosahedral Boron compounds are potential candidates for high Tc superconductivity. I identified and characterized the electron-phonon coupling responsible for superconductivity in CaC<sub>6</sub>, KC<sub>8</sub> and in other intercalated graphite, the charge-Density Wave and Superconducting Dome in TiSe2, the intercalant and intermolecular phonon assisted superconductivity in K-doped picene, the inverse isotope effect in superconducting palladium-hydrates. Finally I have proposed that phonon-mediated superconductivity can be induced in graphene by coating it with metal-ions. Surprisingly the highest Tc is achieved with Li and not with Ca, contrary to what is observed in intercalated graphite. For the description of the electron dispersion and of the electron-phonon interaction we have implemented an approach that takes advantage of the localization in real space of the electronic Wannier-function. Such model has the computational complexity of a TB Hamiltonian but retains the accuracy of the DFT ab-initio calculations. In graphene I demonstrated how the e-e interaction and the electron doping modulate the electron-phonon interaction.

Carbon nanotubes and graphene. I explained theoretically (in a paper that is the most cited PRL of 2006) the origin of the characteristic feature of graphene Raman spectra that is currently used to count the number of layers present in a graphene sample. This technique is nowadays used in most experimental papers to identify monolayer and bilayer graphene. I predicted (anticipating a subsequent experimental confirmation) that Raman can also be used to measure the doping level of graphene and carbon nanotubes. I predicted and identified, in experimental data, the presence of significant Kohn anomalies in the phonon dispersion of carbon nanotubes, graphite and graphene. I used these Kohn anomalies, together with the Raman and IR lifetimes and temperature-shifts, to obtain, from experiments, accurate values of the electron-phonon and phonon-phonon coupling of graphite based materials. I showed that in graphene and graphite DFT is not able to correctly account for the experimentally observed electron-phonon interaction and one need to include electron-correlation effects at the GW level. The detailed knowledge of the electron-phonon and phonon-phonon interaction parameters has allowed me to study the origin of current saturation in graphene and in metallic nanotubes at high field. In metallic nanotubes I showed that the decrease of the differential conductance at high field is due to the presence of hot phonons. I proposed to use isotope-enriched nanotubes to control the temperature of such hot phonons and to boost the electrical differential conductance of metallic tubes. Finally, a key step in the use of graphene in electronics is the possibility to cut atomically flat and defected-free edges. With this goal I used first-principles DFT

calculations to identify the most stable regular edged of graphene under different chemical environments.

Anharmonicity, phonon-phonon interaction and thermal conduction. I developed a Monte-Carlo type of approach to treat, with ab-initio methods strong anharmonic systems beyond perturbation theory, using the Self-consistent Harmonic approximation. I applied it to PdH superconductors to explain the inverse isotope effect. I am now using the method to describe temperature dependent phonons (and phonon properties) in CDW materials, ferroelectrics, and thermoelectrics. When anharmonicity can be treated as perturbation, the leading term is the three-phonon scattering coefficient, which is given by the third-order derivative of the energy with respect to atomic displacements (V(3)). Till recently the V(3) calculations were restricted to scattering involving one zone-center phonon. I extended such calculations to phonon with arbitrary momentum as required by the study of heat-transport coefficients. I also developed a new method to compute the thermal conductivity solving the Boltzmann transport equation taking advantage of a variational principle. I published a paper on diamond and I am now working of the thermal transport properties of 2D materials.

Amorphous materials. I used the possibility of simulating NMR and Raman data to elucidate the local geometry and the medium range order in many disordered system, including amorphous allumino-silicate glasses, silica, amorphous boron-oxides, amorphous carbon. More recently, I clarified the origin of many apparent paradoxes in the vitrification of  $B_2O_3$ . It is one of the best glass-forming systems despite an apparent lack of low-pressure polymorphism, and its glassy form is abnormally different from the only known crystalline phase at ambient pressure. Using ab-initio calculations, I revealed the existence of previously unknown  $B_2O_3$  crystalline polymorphs with structural properties similar to the glass and formation energies comparable to the known ambient crystal. The energy degeneracy of the crystals, which is high at ambient pressure and suppressed under pressure, provides a framework to understand the system's ability to vitrify and the origin of the crystallization anomaly.

Mineral-physics and geochemistry. I has also worked at the interface between solid state physics and geology. I used DFT calculations to interpret the IR spectra of many natural mineral (especially clay minerals) including multiwall asbestos nanotubes. I showed that it is possible to use ab-initio calculation to compute accurate isotope equilibrium fractionation (a properties determined by the quantum motion of the nuclei) among minerals and with liquid water. Isotope fractionation is one of the most important geological indicators that can reveal information about the condition of formation of a rock and/or the isotope source of air or water at the time of the mineral formation. Isotope ratios are also used to shed light on the global functioning of the planet Earth.

# **PUBLICATIONS**

The published articles include

- 32 Phys. Rev. Lett.,
- 1 Science,
- 2 Nature Materials,
- 1 Nature Physics,
- 7 J. Am. Chem. Soc.,
- 60 Phys. Rev. B. (including 12 Rapid Communications).

Total number of citations: 16238

H-index (Hirsch): 53

Number of papers with more than 100 citations: 27

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# ORGANIZED WORKSHOPS AND CONFERENCES

15 Mai- 9 June 2000 ICTP, Trieste (Italy)

ICTP Spring college on "Electronic structure approaches to the physics of materials"

July 2001 CECAM, Lyon (France)

CECAM/Psi-K workshop "Application of first-principle methods in geophysics"

8-10 January 2009 ICTP, Trieste (Italy)

14th International Workshop on Computational Physics and Materials Science: Total Energy and Force Methods

9-12 June 2009 E-MRS Spring Meeting Strasbourg (France)

E-MRS Spring Meeting. Symposium N: Carbon Nanotubes and Graphene Low Dimensional Carbon Structures

15-17 June 2009 CECAM, Lausanne (Swiss)

CECAM/Psi-K workshop "Orbital Magnetization in Condensed Matter"

# SERVICES ON PROGRAM COMMITTEES OF INTERNATIONAL CONFERENCES

2008, 2009, 2010, 2011, 2012, 2013 editions of the International Winterschool on Electronic Properties of Novel Materials Kirchberg (Austria)

21-26 June 2009, Beijing, China

NT09: Tenth International Conference on the Science and Application of Nanotubes

Since 2011, committee member of the

International Workshop on Computational Physics and Materials Science: Total Energy and Force Methods

#### ADMINISTRATION OF SCIENCE

I am a member of the *Comité national de la recherche scientifique* of CNRS, section 3 (condensed matter, electronic structure and properties), nominated member for 4 years (2013-2017). The comité national selects, at the national level, the researchers to be recruited on permanent positions (about 20 positions per year), judges the activities of CNRS agents and of CNRS laboratories, selects the agents to be promoted. My duties in the comité national require about two months of full work per year.

At the "Institut de Minéralogie et de Physique des Milieux Condensés" (IMPMC) I established and head a research group in quantum theory of materials that involves 6 permanent researchers. I am also member of the scientific committee and one of the 6 members of the *cellule de direction* of the IMPMC.

I am the coordinator of the axis *Méthodologies pour la modélisation des matériaux* of the french Labex Matisse

I am a member of Scientific Advisory Committee of Psi-k, an organization to support European research and researchers in ab-initio material science.

# **GRANTS/FUNDING**

The major support for my research in France has been provided by the CNRS that hired, on permanent positions for my research groups, two computer scientists (in charge of the development of first-principles codes) and three researchers, namely: October 2001-, Michele Lazzeri, Chargé de recherche CNRS (now Directeur de recherche)

October 2003-, Matteo Calandra, Chargé de recherche CNRS (now Directeur de recherche)

October 2010-, Michele Casula, Chargé de recherche CNRS December 2004-2008, Ari P. Seitsonen, Ingénieur de recherche CNRS

December 2010-, Lorenzo Paulatto, Ingénieur de recherche CNRS

I am the National-Coordinator and Principal Investigator of the ANR national-French grant: on "Ab-initio Coupled Charge and Thermal Transport in Nanostructures"

January 2009-June 2013

Total founding: 639572 Euros on three nodes Founding of our theory group: 216620 Euros

I am a Principal Investigator of the EU graphene flagship initiative October 2013-March 2016

Founding of our theory group: 225000 Euros

I am co-investigator (PI Abhay Shukla) of the the ANR national-French grant on "SUPERTRAMP - Beyond Graphene: Doping, superconductivity and Phase transitions in 2D"

January 2012-December 2014

Founding of our theory group: 50000 Euros

I am co-investigator (PI Matteo Calandra) of the the ANR national-French grant: on "Electric transport and superconductivity in Transition Metal Dichalcogenides nanolayers"

January 2014-December 2017

Founding of our theory group: 207584 Euros

I received support

from the European Union to hire three Marie-Curie individual-fellowship postdocs (two-years each)

from the CNRS to hire a two-year postdoctoral research

# INVITED TALKS AT CONFERENCES AND WORKSHOPS 2003-

Ab-initio calculation of vibrational Raman spectra in large systems 16-18 January 2003, Trieste (Italy)

XI International Workshop on computational physics and material science

Role of anharmonicity in phonon frequencies and lifetimes of MgB2 2-4 July 2003 Rome (Italy)

Workshop: Open questions in understanding the superconducting and normal state properties of MgB

Ab-initio simulation of NMR and EPR spectra in solids

1-4 September 2004, Genoa (Italy)

Conference on computational physics 2004

 $Ab\mbox{-}initio\ simulation\ of\ NMR\ spectra\ in\ solids$ 

5-11 September 2004, Lille (France)

AMPERE/EENC European conference on NMR and EPR

 $Pseudopotential\ Hamiltonian\ in\ Magnetic\ field:\ the\ orbital\ magnetism\ within\ a$   $pseudopotential\ framework$ 

4-6 July 2005, Lyon (France)

Cecam workshop: The anomalous Hall effect: Recent advances via the geometric-phase approach

Simulations of spectroscopies by first principles codes: a useful interpretation tool for experimental data that can be accessible outside the electronic-structure community

12-13 July 2005, Rome (Italy)

ESF driven workshop on: European cyberinfrastructure for atomistic simulation of hard, soft, and biological matter

Calculation of vibrational Raman spectra in large systems by high-order density matrix perturbation theory

17-21 September 2005 Schwäbisch Gmünd (Germany)

Psi-K international conference: Toward atomistic materials design

Electron-phonon coupling and superconductivity in Ca intercalated graphite 12-14 January 2006, Cambridge (UK)

International workshop: Recent developments in computational electronic structure

Hot phonons in carbon nanotubes and superconductivity in Ca intercalated graphite 4-11 March 2006, Kirchberg (Austria)

International Winterschool on Electronic Properties of Novel Materials (IWEPNM)  $2006\,$ 

 $Electron-phonon\ coupling,\ Raman\ spectra,\ electron\ transport\ and\ hot\ phonons\ in\ carbon\ nanotubes$ 

29 May-June 2006, Nice (France)

The European Materials Research Society (E-MRS) Spring Meeting

Hole self-trapping by Al impurity in quartz: a challenge for DFT

28-31 August 2006, Trieste (Italy)

International Symposium on the Jahn-Teller Effects: Novel Aspects in Orbital Physics and Vibronic Dynamics of Molecules and Crystals

Superconductivity in intercalated graphites

21-23 September 2006, Palau (Italy)

International workshop in Computational Material Science

Non-adiabatic vibrations in doped graphene

11-13 January 2007, Trieste (Italy)

XI International Workshop on computational physics and material science

Non-adiabatic vibrations in doped graphene

28 May- 1 June 2007, Strasbourg (France)

The European Materials Research Society (E-MRS) Spring Meeting

Current saturation and hot phonons in carbon nanotubes at high field

June 21-22 2007, Trieste (Italy)

International workshop in honor of Roberto Car's 60th birthday

Non-adiabatic vibrations in doped graphene

28-30 May 2007, San Sebastian (Spain)

Ab-initio approaches to electron-phonon coupling and superconductivity

 $\label{lectron-phonon} Electron-phonon\ coupling\ and\ superconductivity\ in\ intercalated\ graphites\ from\ first-principles$ 

28-30 September 2007, Manchester (UK)

Workshop on solving the Bogoliubov-de Gennes and Gross-Pitaevskii equations for superconductors, superfluids and BEC

Probing the doping in metallic and semiconducting carbon nanotubes by Raman 1-8 March 2008, Kirchberg (Austria)

International Winterschool on Electronic Properties of Novel Materials (IWEPNM) 2008

Giant violation of the adiabatic Born-Oppenheimer approximation in the vibrational Raman spectra of layered metals

23-27 June 2008, Trieste (Italy)

CPMD2008 - Conference on modeling and computation of structure and dynamics of condensed phase systems

 ${\it Giant\ violation\ of\ the\ adiabatic\ Born-Oppenheimer\ approximation\ in\ the\ vibrational\ Raman\ spectra\ of\ layered\ metals}$ 

25-29 August 2008, Trieste (ITaly)

ICTP Conference Graphene Week 2008

 $Stability,\ chemical\ structure\ and\ Clar's\ aromatic\ sextets\ in\ graphene\ hydrogenated\ edges$ 

7-14 March 2009, Kirchberg (Austria)

International Winterschool on Electronic Properties of Novel Materials (IWEPNM) 2009

Electron-phonon interaction within GW in graphite and graphene: correlation effects beyond DFT

21-22 March 2009, Berkeley (US)

Frontiers in Condensed Matter Physics and Nanoscience: A Symposium in Honor of the 60th Birthday of Steven G. Louie

 $Stability,\ chemical\ structure\ and\ Clar's\ aromatic\ sextets\ in\ graphene\ hydrogenated\ edges$ 

22-26 March 2009, Lake City (US)

237th ACS National Meeting and Exposition

 $Stability,\ chemical\ structure\ and\ Clar's\ aromatic\ sextets\ in\ graphene\ hydrogenated\ edges$ 

31 August - 4 September March 2009, Lyon (France)

DFT09- 13th International Conference on the Applications of Density Functional Theory in Chemistry and Physics

 ${\it Transport, current \ saturation \ and \ hot \ phonons \ at \ high \ bias \ in \ metallic \ nanotubes}$  and  ${\it graphene}$ 

5-8 October 2009, centre Paul Langevin, Aussois (France)

Plenary conference of the GDR "Mesoscopic Quantum Physics"

Three lectures on graphene: Raman spectroscopy, charge transport, ribbons and edges

14-25 December 2009, Hanoi (Vietnam)

ICTP Regional School on Physics at the Nanoscale

Transport in graphene at high bias: current saturation and Klein tunneling 6-13 March 2010, Kirchberg (Austria)

International Winterschool on Electronic Properties of Novel Materials (IWEPNM) 2010

Transport in graphene at high bias: current saturation and Klein tunneling

15 - 18 August 2010, Physikzentrum Bad Honnef Bonn (Germany)

457. WE-Heraeus-Seminar: Graphene Electronics - Material, Physics and Devices

Two lectures on charge transport in graphene and carbon nanotubes

17 - 28 May 2010, ICTP Trieste (Italy)

ICTP Spring College on Computational Nanoscience

Tutorial lecture: Ab-initio calculation of resonant Raman spectra in graphene 26 Feb - 5 March 2011, Kirchberg (Austria)

 ${\bf International\ Winterschool\ on\ Electronic\ Properties\ of\ Novel\ Materials\ (IWEPNM)}$ 

How to Make Graphene Superconducting

29 August - 3 September 2011, Cambridge (UK)

SCES 2011 - Commemorating 100 Years of Superconductivity

How to Make Graphene Superconducting 14-16 September, 2011, Lancaster (UK)

Workshop on First-Principles Computational Methodologies for Two-Dimensional Materials

Resonant Raman spectra in graphene 23-17 January 2012, Ecully (France)

Annual meeting of the GDR-I Graphene and Nanotubes Science and Applications

 $Charge\ density\ waves,\ pseudo-gaps,\ superconductivity\ in\ bulk\ and\ exfoliated\ transition\ metal\ dichalcogenides$ 

25-27 September 2012, Abbaye des Premontres Nancy (France) DARPA Workshop: Two-Dimensional Materials Beyond Graphene

Superconducting graphene 23-26 April 2013, Bilbao (Spain) Graphene 2013

Electron-phonon interaction and superconductivity in graphene 24-28 June 2013, Aalto University, Espoo (Finland) NT13

Electron-phonon interaction and superconductivity in intercalated graphite and graphene 9-13 September 2013, Milano (Italy)

FISMAT

Stochastic Self-Consistent Harmonic Approximation: Inverse Isotope Effect in Palladium Hydride superconductors
November 2013, Trieste (Italy)
Frontiers of Condensed Matter Physics

Stochastic Self-Consistent Harmonic Approximation: Inverse Isotope Effect in Palladium Hydride superconductors

17-20 June 2014, Trento (Italy)

ECT\* workshop on "New Frontiers in Multiscale Modelling of Advanced Materials - MAM1"

Phonon-mediated superconductivity in ZrNCl: universal enhancement in 2D materials in the low doping limit 9-11 July 2014, Dublin (Irland)

Flatlands Beyond Graphene (FBG) 2014

Del. 2.1

Nome e cognome: Alessandro Veneziani

Data di nascita: 25 Maggio 1969

PhD (data e università): 1998 - Universita' di Milano

Posizione richiesta (I fascia, II fascia, RTDB o RTDA): Il Fascia (PA)

Settore Concorsuale: 01

Settore Scientifico Disciplinare: A5 (ex MAT08)

Settore Concorsuale:

Posizione attuale: Professore associato in attesa di promozione (Aprile 2015) Università o centro di ricerca estero e data di ingresso nella posizione: Department of Mathematics & Computer Science, Emory University, Atlanta (GA) USA Da Settembre 2007

Altre posizioni nell'ultimo guinquiennio:

External Program Faculty Department of Biomedical Enigneering, Georgia Institute of Technology Atlanta (GA) USA (dal 2009)

Visiting Professor, Universita' di Bergamo, Luglio 2013

Numero di pubblicazioni ISI (specificare fonte): 80 (Scopus)

Fattore H (specificare fonte): Google Scholar: 26 (dal 2009: 24); SCOPUS: 18

h-c (basato su Scopus): 12

Numero totale di citazioni (specificare fonte): Google Scholar: 2828 (dal 2009: 1971)

SCOPUS: 1150 (dal 2010: 669)

Soglie Mediane ANVUR per il Settore Concorsuale (per Ordinario se il posto richiesto è

di Ordinario, per Associato negli altri casi).

Num Articoli Normalizzato: 15.5 (Veneziani: 63 - da SCOPUS)

Num Citazioni Normalizzato: 15.72 (Veneziani: 63.88 - da SCOPUS)

h-c: 7 (Veneziani: 12 - da SCOPUS)

Eventuale partecipazione all'abilitazione nazionale e tutti i risultati conseguiti (sia positivi che negativi ottenuti):

Valutato ideoneo nella tornata 2012 per la Prima Fascia

Risulta vincitore di ERC o coordinatore di progetto Europeo? Se sì, specificare. E' stato coordinatore di una unita' nel progetto Europeo Hemodel, PI: Alfio Quarteroni Titolare di 2 Progetti National Science Foundation (248,00USD and 150,000 USD)

Motivazione sintetica della richiesta (70 parole massimo) (possibilmente una sola frase, comprensibile da qualunque membro della Facoltà):

Veneziani opera nel settore della Matematica Applicata, sviluppo di modelli e metodi numerici, con attenzione allo studio della fluidodinamica numerica e delle malattie cardiovascolari. Ha sviluppato notevoli competenze nello sviluppo di metodi di approssimazione numerica per equazioni a derivate parziali e per calcolo scientifico ad alte prestazioni. Le sue competenze sul metodo degli elementi finiti sono molto interessanti e utili per il Corso di Laurea Triennale in Matematica, per il corso di Laurea Magistrale in Matematica per le Applicazioni e per i corsi di area ANALISI NUMERICA (MAT/08) offerti dal Dipartimento.

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Principali risultati ottenuti (250 Parole massimo):

Veneziani ha focalizzato la sua ricerca sui metodi numerici per la risoluzione di problemi di fluidodinamica per problemi industriali e biomedici. In particolare, le scienze cardiovascolari si stanno avvantaggiando notevolmente dell'uso di modelli matematici e numerici. Veneziani ha dato importanti contributi in questo contesto, in particolare promuovendo (i) nuovi metodi per la risoluzione efficiente delle equazioni di Navier-Stokes per fluidodinamica incomprimibile (metodo di Yosida); metodi per la modellazione multiscala del sistema circolatorio (approccio multiscala geometrico); metodi per la risoluzione e il precondizionamento delle equazioni della elettrocardiologia, anche in contesti adattivi (modello Hybridomain); metodi per l'assimilazione variazionale dei dati e la stima dei parametri in problemi di biomeccanica. Al momento, la sua ricerca e' rivolta a metodi di riduzione gerarchica di modello per problemi di fluidodinamica interna; alla stima di parametric mediante metodi variazionale e di riduzione di modello (ad esempio tramite Proper Orthogonal Decomposition); all'applicazione di emodinamica vascolare, chirurgia aortica, malattie coronariche, aneurismi. Per queste ultime attivita', la ricerca e' portata avanti con i medici dell'Emory University Hospital, ma anche in collaborazione con l'Ospedale Giovanni XXIII di Bergamo e l'Universita' di Pavia.

CV Sintetico (15-20 righe), comprendente anche le principali attività didattiche, i dottorandi seguiti (con la loro attuale posizione lavorativa, se nota) e i principali finanziamenti ottenuti:

Veneziani e' autore di un libro di testo (e uno attualmente in fase di scrittura), co-editor di due libri di ricerca, autore di 61 lavori su peer-review journal, 10 Capitoli di libri, 21 atti di convegno. E' stato insignito del Premio Sacchi Landriani per giovani analisti numerici nell'ambito delle equazioni a derivate parziali nel 2006; un suo lavoro con Alfio Quarteroni e Paolo Zunino e' stato insignito del SIAM Outstanding Paper Prize nel 2004. E' attualmente PI di due progetti NSF, coPI di un progetto industrial, PI di un progetto finanziato dalla Georgia Research Alliance. In Europa e' stato PI del progetto Aneurisk finanziato da Siemens, di alcuni progetti industriali e ha partecipato a diversi progetti ministerial Italiani, oltre che essere stato coordinator dell'Unita' Italiana del Progetto Europeo Haemodel.

La sua esperienza didattica in Italia e' principalmente legata all'Analisi Numerica e ai Metodi Numerici per Equazioni a Derivate Parziali e Fluidodinamica Computazionale, di cui ha tenuto diversi corsi al Politecnico di Milano, all'Universita' di Verona e di Bergamo a livello di Laurea di Primo Livello, Laurea Magistrale e Dottorato. Negli Stati Uniti ha insegnato a livello di Laurea e Dottorato corsi di Equazioni alle Derivate Parziali, Equazioni Differenziali, Algebra Lineare, Analisi Numerica. Ha insegnato anche per corsi rivolti a studenti delle superiori (sia in Italia che in USA), e in corsi estivi e di formazione permanente. E' stato advisor di 8 studenti di Dottorato (1 e' Assistant Professor, 2 lavorano in industria, 5 lavorano in Laboratori Nazionali in USA, Italia, Germania). Al momento e' advisor di 9 studenti di Dottorato.

Pagina web personale: www.mathcs.emory.edu/~ale

Elenco dei lavori principali (massimo 12):.

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	Perotto, S., Veneziani, A.	2013	3 Journal of Scientific Compu	iting 2		1	32	
\	/eneziani, A., Villa, U.	2013	Journal of Computational Physics	3 8		359	375	
	Perego, M., Veneziani, A., /ergara, C.	2011	SIAM Journal on Scientific Computing	3	3	1181	1211	
F	Perotto, S., Ern, A., Veneziani, A.	2010	Multiscale Modeling and Simulation	8	4	1102	1127	
Ņ	Gerardo-Giorda, L., Mirabella, L., Nobile, F., Perego, M., Veneziani, A.	2009	Journal of Computational Physics	2 2 8 2	10	3625	3639	
	Gervasio, P., Saleri, F., /eneziani, A.	2006	Journal of Computational Physics	1 4	1	347	365	
8	Saleri, F., Veneziani, A.	2005	SIAM Journal on Numerical Analysis	4 3	1	174	194	
\	/eneziani, A.	2003	Numerical Methods for Partial Differential Equations	1 9	4	487	510	
	Quarteroni, A., Veneziani, A., Zunino, P.	2002	SIAM Journal on Numerical Analysis	3 9	5	1488	1511	
	Quarteroni, A., Saleri, F., /eneziani, A.	2000	Computer Methods in Applied Mechanics and Engineering	1 8 8	3- Ja n	505	526	
	Quarteroni, A., Tuveri, M., /eneziani, A.	2000	Computing and Visualization in Science	2	4 3-	163	197	
	Formaggia, L., Nobile, F., Quarteroni, A., Veneziani, A.	1999	Computing and Visualization in Science	2	Fe b	75	83	e .

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# Alessandro Veneziani

Department of Mathematics and Computer Science, Emory University, 400 Dowman Dr. Atlanta, GA30322, USA, Phone: +14047277925, Fax: +14047275611, ale@mathcs.emory.edu, www.mathcs.emory.edu/~ale September 2014

# Education

PhD in Computational and Applied Mathematics, University of Milan, 1998,

<u>Doctoral Dissertation:</u> Mathematical and Numerical Modeling of Blood Flow Problems, July 1998, Alfio Quarteroni, advisor.

Laurea (Master of Science) in Electronic Engineering, Politecnico di Milano, 1994

## Positions Held

# Main Appointments

09/2007-present, Associate Professor, Department of Mathematics and Computer Science, Emory University, Atlanta, GA, USA

2009-present, Biomedical Engineering Program Faculty, Wallace H. Coulter Biomedical Engineering Department, Georgia Tech & Emory University, Atlanta, GA, USA

03/2002-08/2007, Associate Professor, MOX, Department of Mathematics, Politecnico di Milano, Italy

11/2000-02/2002, Assistant Professor, MOX, Department of Mathematics, Politecnico di Milano, Italy

10/1997-10/2000, Assistant Professor, Department of Science and Technology, University of Verona, Italy

#### Other Appointments

July 2013: Visiting Professor at the HTH Academic Center University of Bergamo (Italy)

2006-2007: Adjunct Professor, Department of Mechanical Engineering, University of Bergamo

September 2003, October 2004: Visiting Professor at the Bernoulli Institute, Lausanne

November 2000, March 2002, October 2002: Visiting Professor EPFL, Lausanne, Switzerland

2000-2004: Adjunct Professor, Department of Mechanical Engineering, University of Bergamo

January 1999: Visiting Researcher at the Department of Mathematics of EPFL

January 1996: Visiting researcher at the Biomedical Applications Group CRS4, Cagliari, Italy.

October 1994- September 1995: Community Service, Mario Negri Institute for Pharmacological Research



### RESEARCH

#### Research Interests

Numerical Approximation of Partial Differential Equations, Preconditioning Techniques, Computational Fluid Mechanics, Domain Decomposition Methods, Multiscale Modeling, Numerical Modeling of the Cardiovascular System, Data Assimilation, Industrial Applications of Scientific Computing.

### Google Scholar Score

Citation Indices	All	Since 2009
Citations	2801	1945
h-index	26	24
i10-index	48	45

### Grants

- 2014 2017 NSF Project, DMS 1419060 "Hierarchical Model Reduction Techniques for Incompressible Fluid Dynamics and Fluid Structure Interaction Problems", Goal: development of methods for incompressible fluids in network of pipes, based on a competitive hybrid finite elements/spectral discretization of the Navier Stokes equations. Role of Alessandro Veneziani: PI, (US \$ 248,700)
- 2014 2017 NSF Project, DMS 1412973/DMS 1413037, "Collaborative Research: Novel data assimilation techniques in mathematical cardiology development, analysis and validation". Goal: development and validation of methods for estimating cardiovascular conductivities via variational techniques and model reduction approaches. Role of Alessandro Veneziani: PI, (US \$ 150,000)
- 2014 2019 Absorb Inc: "BIORESORB" Goal: clinical trials and numerical analysis of bioresporbable stents. Role of Alessandro Veneziani: coPI (PI: H. Samady, MD, Emory University Hospital)
- 2014: PI of the GRA Venture Lab Grant "AngioCloud: Real-time vascular data analysis via cloud computing", (US \$54,369)
- 2011-2012: PI of the Emory URC Project "Numerical modeling of porous media in moving domains" (US \$ 28,575)
- 2010-2011: PI of the Project "Computational and Statistical Analysis of Brain Aneurysm Morphology and Hemodynamics", US \$ 15,000, granted by the Brain Aneurysm Foundation
- 2008: PI of the Emory URC Project "Image based numerical fluid structure interactions simulations in computational hemodynamics" (US \$ 30,000)
- 2005-2008: PI of the Project: "Set up of numerical and statistical tools for the rupture risk evaluation in cerebral aneurysms" (2005-2008) supported by Politecnico Foundation and SIEMENS Medical Solutions Italy (Euros 235,000)
- 2007: Former Coordinator of the Mathematical Unit of the Project HOT-FDI (Hollow and Transparent Fiber Design for Industries), Italian Research Ministry 2007-2009 (Euros 200,000) position left when moved to Emory
- 2007: PI of the Project: "Fluid-structure interaction problems in motorcycle brakes" with Brembo Brakes (Euros 15,000)
- 2005: PI of the Project "Numerical simulations for the optimization of washing machines pumps" October 2004-January 2005 and April-May 2006 with Arylux PMP Elettropompe (Euros 5,000)
- 2002-2006: Coordinator of the Italian Unit of the EU Project "Haemodel" (Director: A: Quarteroni)
- 2002-2003: Co-PI in the Project: "Numerical Modeling of Glow Plugs for Diesel Engines" with Federal Mogul (Euros 28,000)
- 2004: Coordinator of the Project "Numerical Assessment of Performance of Competition Swimsuits" with Arena (Euros 20,000)



# Participation to other projects

iCardioCloud, PI: F. Auricchio, Univ. of Pavia, Italy (2014-2017), Awarded by Fondazione Cariplo, Italy, Role: Consultant

PASCA2L: PAtient Specific Computational Analysis of Aortic hemodynamics over Large data sets, PI: F. Auricchio, Univ. of Pavia, Italy (2013-2014). Role: Co-PI Award: Access to computational CINECA clusters

Fast Solvers for Three-Dimensional Unstructured Finite Element Models of Incompressible Flows (2012-2013) Role: PI, Award: Access to NSF XSEDE Clusters

"Design of drug delivery stents" from the Cariplo Foundation, 2005-2007

"Computational Cardiology" from the Italian Institute for High Mathematics (INdAM) 2006-2007

"Complex Systems in Biomedicine" from the Italian Institute for High Mathematics (fNdAM) 2005

COFIN2005 from the Italian Ministry of Scientific Research

COFIN2004 from the Italian Ministry of Scientific Research

COFIN2003 from the Italian Ministry of Scientific Research

COFIN2001 from the Italian Ministry of Scientific Research

COFIN2000 from the Italian Ministry of Scientific Research

Agenzia2000 from the National Research Council (CNR), Italy

Large Scale Computing- Multiscale Models in Biology, from the Politecnico di Milano (2000-2001)

#### Honors

National Qualification to Full Professorship in Italy (Dec 2013)

International "Giovanni Sacchi-Landriani Prize" from the Academy of Arts and Letters of Lombardy Institute in Milan for numerical analysts of Partial Differential Equations younger than 40 years old

Recipient with A. Quarteroni and P. Zunino of the 2004 SIAM Outstanding Paper Prize for paper [30] (see publication list below).

Best poster presented at the 2008 Emerson Center Lectureship Award Symposium (with E. Agostoni and M. Perego)



# Research Papers (Peer Reviewed)

(Total number of papers: 61, 37 of them published after joining Emory)

- G. H. W. van Bogerijen, F. Auricchio, M. Conti, A. Lefiucux, A. Reali, A. Veneziani, J.L. Tolenaar, F.L. Moll, V. Rampoldi, S. Trimarchi, Aortic Hemodynamics After Thoracic Endovascular Aortic Repair With the Role of Bird-Beak, J Endov Therapy, in press (2014)
- 2. L. Bertagna and A. Veneziani A model reduction approach for the variational estimation of vascular compliance by solving an inverse fluid-structure interaction problem, Inverse Problems, 30, doi:10.1088/0266-5611/30/5/055006 (2014), 23pp.
- 3. F. Auricchio, M. Conti, A. Lefieux, S. Morganti, A. Reali, F. Sardanelli, F. Secchi, S. Trimarchi, A. Veneziani, Patient-specific analysis of post-operative aortic hemodynamics: a focus on Thoracic Endovascular Repair (TEVAR) Comput Mech DOI 10.1007/s00466-014-0976-6 (2014)
- 4. A. Aposporidis, P. Vassilevski, A. Veneziani, Multigrid preconditioning of the non-regularized augmented Bingham fluid problem, ETNA (Electronic Transaction Numerical Analysis), 41, pp. 42-61 (2014)
- 5. S. Perotto, A. Veneziani. Coupled model and grid adaptivity in hierarchical reduction of elliptic problems, J Sci Comp (2014) 60:505-536
- Ian C. Campbell, Lucas H. Timmins, Don P. Giddens, Renu Virmani, Alessandro Veneziani, Syed T. Rab, Habib Samady, Michael C. McDaniel, Aloke V. Finn, W. Robert Taylor, John N. Oshinski, Computational Fluid Dynamics Simulations of Hemodynamics in Plaque Erosion, Cardiov. Eng. Techn. vol 4 (4), 464-473 (2013)
- 7. Gogas, B., Timmins, L., Passerini, T., Piccinelli M, Kim, S., Molony, D., Giddens D., King, S., Samady, H., Biomechanical Assessment of Bioresorbable Devices, JACC: Cardiovascular Interventions, 6(7):760-761 (2013)
- 8. Passerini, Tiziano, Annalisa Quaini, Umberto Villa, Alessandro Veneziani, and Suncica Canic. "Validation of an open source framework for the simulation of blood flow in rigid and deformable vessels." International journal for numerical methods in biomedical engineering 29, no. 11 (2013): 1192-1213.
- Ian C. Campbell, Daiana Weiss, Jonathan D. Suever, Renu Virmani, Alessandro Veneziani, Raymond P. Vito, John N. Oshinski, and W. Robert Taylor, Biomechanical modeling and morphology analysis indicates plaque rupture due to mechanical failure unlikely in atherosclerosis-prone mice, Am J Physiol Heart Circ Physiol February 1, 2013 304:H473-H486;
- J.P. Keller, L. Gerardo Giorda, A. Veneziani, Numerical simulation of a susceptible-exposed-infectious space-continuous model for the spread of rabies in raccoons across a realistic landscape, J Biol Dynamics, 7, no. sup1, 31-46. (2013)
   DOI: 10.1080/17513758.2012.742578
- 11. A. Veneziani, U. Villa, ALADINS: an Algebraic splitting time ADaptive solver for the Incompressible Navier-Stokes equations., J Comp Phys, 238, 359-375 (2013)
- 12. M. D'Elia, A. Veneziani, Uncertainty quantification for data assimilation in a steady Incompressible Navier-Stokes problem ESAIM: Mathematical Modelling and Numerical Analysis 47, no. 04 (2013): 1037-1057.
- 13. Lucia Mirabella, Christopher M. Haggerty, Tiziano Passerini, Marina Piccinelli, Pedro J. Del Nido, Alessandro Veneziani, Ajit P. Yoganathan "Treatment planning for a TCPC test case: a numerical investigation under rigid and moving wall assumptions", Int J Num Meth Biomed Eng 29(2), 197-216 (2013)
- 14. Marina Piccinelli, Yiemeng Hoi, Frank Tong, David Steinman, Alessandro Veneziani, Luca Antiga, Automatic neck plane detection and 3D geometric characterization of aneurysmal sacs Annals of Biomedical Engineering, Volume 40, Issue 10, pp 2188-2211 (2012)
- 15. M. D'Elia, M. Perego, A. Veneziani, A Variational Data Assimilation Procedure for the Incompressible Navier-Stokes Equations in Hemodynamics, J Sci Comp, Volume 52, Number 2 (2012), 340-359



- 16. Tiziano Passerini, Laura M. Sangalli, Simone Vantini, Marinia Piccinelli, Susanna Bacigaluppi, Luca Antiga, Edoardo Boccardi, Piercesare Secchi, Alessandro Veneziani, An Integrated Statistical Investigation of the Internal Carotid Arteries hosting Cerebral Aneurysms, Cardiovascular Engineering and Technology 3(1), 26-40, 2012
- 17. A. Aposporidis, M. Olshanskii, E. Haber, A. Veneziani An augmented formulation of the incompressible Bingham fluid problem: Analysis and numerical solution, Comp. Meth. Appl. Mech. Eng., 200:2434-2446, 2011
- 18. M. Perego, A. Veneziani, C. Vergara, A Variational Approach for Estimating the Compliance of the Cardiovascular Tissue: An Inverse Fluid-Structure Interaction Problem, SIAM J. Sc. Comp., 33(3), pp. 1181-1211, 2011
- M. Piccinelli, S. Bacigaluppi, E. Boccardi, B. Ene-Iordache, A. Remuzzi, A. Veneziani, L. Antiga, Influence of internal carotid artery geometry on ancurysm location and orientation: a computational geometry study, Neurosurgery, 68(5):1270-1285, 2011.
- 20. L. Gerardo-Giorda, M. Perego, A. Veneziani, Optimized Schwartz coupling of bidomain and monodomain models in electrocardiology, M2AN, Vol. 45 (2), 2011.
- F. Viscardi, C. Vergara, L. Antiga, S. Merelli, A. Veneziani, G. Puppini, G. Faggian, A. Mazzucco, G. B. Luciani, Comparative finite-element model analysis of ascending aortic flow in bicuspid and tricuspid aortic valve, Artificial Organs., 34(12), pp. 1114-1120, 2010
- 22. L. Mirabella, F. Nobile, A. Veneziani, An a posteriori error estimator for model adaptivity in electrocardiology, Comp. Methods Appl. Mech. Engrg, vol. 200, pp. 2727-2737, 2011
- 23. S. Perotto, A. Ern, A. Veneziani, Hierarchical Local Model Reduction for Elliptic Problems I: A Domain Decomposition Approach, SIAM MMS 8(4), pp.1102-1127 (2010)
- 24. R. Ponzini, C. Vergara, G. Rizzo, A. Veneziani, A. Redaelli, A. Roghi, A. Vanzulli, O. Parodi, Computational Fluid Dynamics based estimation of blood flow rate in Doppler analysis: In vivo validation by means of Phase Contrast Magnetic Resonance Imaging, IEEE Trans Biomed Eng, 57(7), pp. 1807-1815 (2010)
- 25. C. Vergara, R. Ponzini, A. Veneziani, A. Redaelli, D. Neglia, O. Parodi, Womersley number-based estimation of flow rate with Doppler Ultrasound: Sensitivity analysis and first clinical application, Computer Methods and Programs in Biomedicine, 98(2), pp. 151-160 (2010)
- 26. V. Bacchelli, A. Veneziani, S. Vessella, Corrosion Detection in a 2D domain with a polygonal boundary, Journal of Inverse and Ill-posed Problems, 8(3), pp. 281-305 (2010)
- 27. L. Formaggia, A. Veneziani, C. Vergara, Numerical solution of flow rate boundary problems for an incompressible fluid in deformable domains, Comp Meth Appl Mech Engr, 199(9-12), pp. 677-688 (2010)
- 28. M. Perego, A. Veneziani, An Efficient Generalization of the Rush-Larsen Method for Solving Electro-Physiology Membrane Equations, ETNA (Electronic Transaction in Numerical Analysis), 35, pp. 234-256 (2009)
- 29. M. Picinelli, A. Veneziani, D. A. Steinman, A. Remuzzi, L. Antiga, A framework for geometric analysis of vascular structures: Applications to cerebral aneurysms, 28(8), IEEE Trans Biomed Imag, pp. 1141 1155 (2009)
- 30. T. Passerini, M. de Luca, L. Formaggia, A. Quarteroni, A. Veneziani, A 3D/1D geometrical multiscale model of cerebral vasculature, J Eng Math, 64(4), pp. 319-330 (2009)
- 31. L. Gerardo-Giorda, L. Mirabella, F. Nobile, M. Perego, A. Veneziani, A model preconditioner for the Bidomain problem in electrocardiology, J. Comput. Phys., Vol. 228, pp. 3625-3639 (2009)
- 32. A. Veneziani, A Note on the Consistency and Stability Properties of Yosida Fractional Step Schemes for the Unsteady Stokes Equations, SIAM J. Numer. Anal., 47(4), pp. 2838-2843 (2009)
- 33. L. Formaggia, A. Veneziani, C. Vergara, A new approach to numerical solution of defective boundary value problems in incompressible fluid dynamics, SIAM J. Numer. Anal, 46(6), pp. 2769-2794, 2008



- L. M. Sangalli, P. Secchi, S. Vantini, A. Veneziani, A Case Study in Explorative Functional Data Analysis: Geometrical Features of the Internal Carotid Artery, Journal of the American Statistical Association, 104(485), pp. 37-48 (2009)
- 35. L. M. Sangalli, P. Secchi, S. Vantini, A. Veneziani, Efficient estimation of 3-dimensional centerlines of inner carotid arteries and their curvature functions by free knot regression splines, Journal of the Royal Statistical Society Ser. C, Applied Statistics, 58(3), pp. 285-306 (2009)
- 36. R. Balossino, G. Pennati, F. Migliavacca, L. Formaggia, A. Veneziani, M. Tuveri, G. Dubini, Computational models to predict stenosis growth in carotid arteries: which is the role of boundary conditions?, Comput Methods Biomech Biomed Engin., 12(1), pp.113-23 (2009)
- 37. D. A. Di Pietro, A. Veneziani, Expression Templates Implementation of the Continuous and Discontinuous Galerkin Methods, Comp. Vis. Science, 12, pp. 421-436 (2009)
- 38. A. Veneziani, C. Vergara, An approximate method for solving incompressible Navier-Stokes problem with flow rate conditions, Comp Meth Appl Mech Engr, 196(9-12), pp. 1685-1700 (2007)
- L. Formaggia, S. Micheletti, R. Sacco, A. Veneziani, Mathematical modelling and numerical simulation of a glow-plug, Appl Num Math, Volume 57, Issue 10 (October 2007) Pages: 1125-1144
- 40. R. Ponzini, C. Vergara, A. Redaelli, A. Veneziani, Reliable CFD-based estimation of flow rate in haemodynamics measures, Ultrasound in Medicine & Biology, 32(10), pp. 1545-1555 (2006)
- L. Formaggia, D. Lamponi, M. Tuveri, A. Veneziani, Numerical Modeling of 1D Arterial Networks coupled with a Lumped Parameters Description of the Heart, Computer Meth Biomech Biomed Eng, 9(5), pp. 273 - 288 (2006)
- 42. P. Gervasio, F. Saleri, A. Veneziani, Algebraic splitting methods for the incompressible Navier-Stokes Equations, Journal Comp Phys 214(1), 347-365 (2006)
- A. Veneziani, C. Vergara, Flow rate defective boundary conditions in haemodynamics simulations, Int J Num Methods in Fluids, 42, pp.803-816 (2005)
- 44. F. Saleri, A. Veneziani, Pressure Correction Algebraic-Splitting Methods for the Incompressible Navier-Stokes Equations, SIAM J Numer Analysis, 43(1), pp. 174-194 (2005)
- 45. A. Gauthier, F. Saleri, A. Veneziani, A fast preconditioner for the incompressible Navier Stokes Equations, Comput Visual Sci, 6, pp.105-112 (2004)
- 46. A. Quarteroni, A. Veneziani, Analysis of a Geometrical Multiscale Model based on the Coupling between PDE's and ODE's for Blood Flow simulations, SIAM MMS 1(2) pp. 173-195 (2003)
- 47. A. Veneziani, Block Factorized Preconditioners for High-order Accurate in Time Approximation of the Navier-Stokes Equations, Numer Methods Partial Differential Eq. 19, pp.487 510 (2003)
- 48. A. Quarteroni, A. Veneziani, P. Zunino, A Domain Decomposition Method for Advection Diffusion Processes with Application to Blood Solutes, SIAM J Sci Comp, 23(6), pp. 1959-1980 (2002)
- 49. K. Laganà, G. Dubini, F. Migliavacca, R. Pietrabissa, A. Quarteroni, S. Ragni, A. Veneziani, Multiscale Modeling as a tool to prescribe realistic boundary conditions for the study of surgical procedures, Biorheology, 39 pp. 359-364, (2002)
- 50. A. Quarteroni, S. Ragni, A. Veneziani, Coupled between lumped and distributed models for blood flow problems, Comp. Vis Science, 4(2), pp.111-124 (2001)
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- A. Quarteroni, M. Tuveri, A. Veneziani, Computational Vascular Fluid Dynamics: Problems, Models and Methods, Comp. Vis. Science, 2, pp. 163-197 (2000)
- 54. L. Formaggia, F. Nobile, A. Quarteroni, A. Veneziani, Multiscale modelling of the vascular system: a preliminary analysis, Comp. Vis. Science, 2, pp. 75-83 (1999)
- 55. A. Quarteroni, F. Saleri, A. Veneziani, Analysis of the Yosida method for the incompressible Navier-Stokes equations, Jou. Math. Pures Appl., 78, pp. 473-503 (1999)
- G. Abdoulaev, S. Cadeddu, G. Delussu, M. Donizelli, C. Manzi, L. Formaggia, A. Giachetti, E. Gobbetti, A. Leone, P. Pili, A. Schenine, M. Tuveri, A. Varone, A. Veneziani, G. Zanetti, A. Zorcolo, ViVA: The Virtual Vascular Project, IEEE Transactions on Information Technology in Medicine, 4(2), pp. 268-274 (1998)
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- A. Iannelli, G. Prouse, A. Veneziani, Analysis of a Nonlinear Model of the Vibrating String, NODEA (Nonlinear Differential Equations and Applications), 3, pp.149-177 (1996)
- L. Gotusso, A. Veneziani, Discrete and continuous models of the vibrating string, "Dynamical Systems and Applications", World Scientific Series in Applicable Analysis, 4 (1995), pp.295-314
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- L. Gotusso, G. Prouse, A. Veneziani, On two nonlinear models of the vibrating string, Rend. Acc. Naz. dei XL, Memorie di Matematica, 112, Vol. XVIII, pp. 201-225 (1994)

#### Book (editor)

- L. Formaggia, A. Quarteroni, A. Veneziani (eds) Complex Systems in Biomedicine, Springer Italia (2006)
- L.Formaggia, A. Quarteroni, A. Veneziani (eds.), Cardiovascular Mathematics, Springer (2009)

#### Chapters in Books

- Luca Bertagna, Marta D'Elia, Mauro Pereogo, Alessandro Veneziani. Data Assimilation in Cardiovascular Fluid-Structure Interaction Problems: an introduction, Tech Report TR-2013-012, Emory, MATH& CS, to appear in Bodnar, Tomas, Galdi, Giovanni P., Necasova, AÂirka (Eds.) Fluid-Structure Interaction and Biomedical Applications, Birkhäuser, Expected date: 9/14/1014, ISBN 978-3-0348-0821-7
- A. Quarteroni, A. Veneziani, Modeling and Simulation of Blood Flow Problems, "Computational Science for 21st Century", (J.L. Lions et al. eds.), J. Wiley and Sons, pp. 339-350.
- 3. A. Quarteroni, F. Saleri, A. Veneziani, Approximation of Navier-Stokes Equations via Factorization Methods, in "Navier-Stokes Equations: Theory and Numerical Analysis", (J. Heywood et al. eds.), Pittman Research Notes in Mathematics n.388, pp.322-334 (1998)
- 4. Co-author of Chapter 11 of the Book (in Italian): A. Quarteroni, Numerical Modeling of Differential Problems, 3rd ed., Springer Italia, Milano (2006), entitled "Introduction to Finite Element Programming" (as stated by the author in the Foreword of the book).
- L. Formaggia, A. Quarteroni, A. Veneziani: The circulatory system: from case studies to mathematical modelling, in L. Formaggia, A. Quarteroni, A. Veneziani (eds) Complex Systems in Biomedicine, Springer Italia (2006)
- 6. L. Formaggia, A. Veneziani, Geometrical Multiscale Models for the Cardiovascular System, in Blood Flow Modelling and Diagnostics, ABIOMED Warsaw 2005



- 7. L. Formaggia, A. Veneziani, Geometrical Multiscale Models for the Cardiovascular System, in Modeling of the Cardiovascular System, C. Lazzari (ed.), Rome (2007)
- 8. J. Peirò, A. Veneziani, Reduced Models for the Cardiovascular System, in L. Formaggia, A. Quarteroni, A. Veneziani (eds.), Cardiovascular Mathematics, Springer (2009), pp. 347-394
- 9. L. Formaggia, A. Quarteroni, A. Veneziani, *Multiscale models for the Cardiovascular System*, in L. Formaggia, A. Quarteroni, A. Veneziani (eds.), Cardiovascular Mathematics, Springer (2009), pp. 395-446
- M. D'Elia, L. Mirabella, T. Passerini, M. Piccinelli, C. Vergara, A. Veneziani, Some applications of Variational Data Assimilation in Computational Hemodynamics, in D. Ambrosi, A. Quarteroni, G.Rozza (eds.), Modelling of Physiological Flows, Springer (2011), pp. 363-394.

#### **Proceedings**

- 1. M. Aletti, A. Bortolossi, S. Perotto, A. Veneziani, One-dimensional surrogate models for advection-diffusion problems, to appear in Proceedings of Enumath 2013
- 2. L Gerardo Giorda, L Mirabella, M Perego, A Veneziani Optimized Schwarz Methods and Model Adaptivity in Electrocardiology Simulations, Proceeding of Domain Decomposition Conference 21 (2013)
- 3. Lorenzo Mauri, Simona Perotto, Alessandro Veneziani, Adaptive geometrical multiscale modeling for hydrodynamic problems, Numerical Mathematics and Advanced Applications 2011: Proceedings of ENUMATH 2011 edited by Andrea Cangiani, Ruslan L Davidchack, Emmanuil Georgoulis, Alexander N. Gorban, Jeremy Levesley, Michael V. Tretyakov, Springer, London (2013)
- Jaroslaw Slawinski, Tiziano Passerini, Umberto Villa, Alessandro Veneziani, Vaidy Sunderam, Experiences with Target-Platform Heterogeneity in Clouds, Grids, and On-Premises Resources, Proceedings of HCW 2012 21st International Heterogeneity in Computing Workshop
- 5. M. D'Elia, A. Veneziani, Methods for assimilating blood velocity measures in hemodynamics simulations: preliminary results, Proceedings of ICCS 2010, Data Driven Simulations, (2010)
- A. F. Corno, C. Vergara, C. Subramanian, R. A. Johnson, T. Passerini, A. Veneziani, L. Formaggia, N. Alphonso, A. Quarteroni, J. C. Jarvis, Assisted Fontan procedure: animal and in vitro models and computational fluid dynamics study, Interactive CardioVascular and Thoracic Surgery, 10, pp. 679-684, 2010
- 7. R. Ponzini, G. Rizzo, C. Vergara, A. Veneziani, U. Morbiducci, F.M. Montevecchi, A. Redaelli, Computational modeling of local hemodynamics phenomena: Methods, tools and clinical applications, Nuovo Cimento C della Societa' Italiana di Fisica Colloquia on Physics, 32(2), pp. 77-80, 2009
- 8. R. Ponzini, C. Vergara, A. Veneziani, A. Redaelli, Design of new reliable CFD-based estimation of flow rate: Early in-vivo results, Computers in Cardiology, pp. 953-955, 2008.
- A. Ern, S. Perotto, A. Veneziani, Hierarchical Model Reduction for Advection-Diffusion-Reaction Problems, in Numerical Mathematics and Advanced Applications Proceedings of ENUMATH 2007, the 7th European Conference on Numerical Mathematics and Advanced Applications, Graz, Austria, K. Kunisch, G. Of and O. Steinbach (eds.), 2007
- A. Veneziani, C. Vergara, Flow Rate Boundary Conditions in Fluid-Dynamics, PAMM Proceedings in Applied Mathematics and Mechanics, 6, pp. 35-38, 2006 (Proceedings of the GAMM meeting 2006, Berlin)
- 11. Balossino R., Migliavacca F., Pennati G., Dubini G., Vergara C., Formaggia L., Venenziani A., Multiscale, Models of the Cardiovascular System Applied to the Study of the Flow in a Carotid Bifurcation, in Technological innovation and evaluation of medical devices for the cardiovascular system, Rapporti Istisan, 05/46, 2004.
- 12. L. Formaggia, F. Nobile, A. Quarteroni, A. Veneziani, P. Zunino, Advances in numerical simulation of blood flow problems, Proceedings of ECCOMAS2000, E. Onate et al (eds.) (CDRom paper 14 pages), 2000



- 13. R. Pietrabissa, A. Quarteroni, G. Dubini, A. Veneziani, F. Migliavacca, S. Ragni, From the global hemodynamics down to the local blood flow: preliminary applications of a multiscale approach, Proceedings of ECCOMAS2000 E. Onate et al (eds.) (CDRom Paper 17 pages), 2000
- A. Quarteroni, A. Veneziani and P. Zunino, Numerical investigation of transport and absorption phenomena of blood solutes, in 18th UIT National Heat Transfer Conference, A. Niro et al., Eds., ETIS, Pisa, 2000, pp. 955-966
- 15. F. Nobile, A. Veneziani, Fluid-Structure interaction in Blood Flow Problems, Z. Angew. Math. Mech. 79, S255-S258 (1999)
- 16. A. Veneziani, Boundary Conditions for Blood Flow Problems, in Proceeding of ENUMATH97, R. Rannacher et al (eds.), pp. 596-605, 1998
- 17. A. Quarteroni, A. Veneziani, Modellistica matematico-numerica del flusso del sangue nelle grandi arterie, Atti dei Convegni Lincei n. 137, pp. 129-150, 1996
- A. Quarteroni, A. Veneziani, Vascular Fluid Dynamics: Modelling and Methods, Rend. Ist. Lomb. Lettere, Scienze e Arti, pp. 219-271 (1998)
- L. Gotusso, G. Prouse, A. Veneziani, Linear and nonlinear models for the vibrating rod, in Advances in Difference Equations, Proceedings of "Second International Conference on Difference Equations and Applications", S. Elaydi et al. (eds.), Gordon and Breach, (1997), pp. 245-252
- L. Gotusso, G. Prouse, A. Veneziani, Nonlinear models for the vibrating rod, Proceedings of "VI Colloquium on Differential Equations", D. Bainov et al. (eds.), SCT Publishing, (1995), pp. 135-143
- 21. L. Gotusso, G. Prouse, A. Veneziani, On nonlinear models for the vibrating string, Proceedings of "V Colloquium on Differential Equations", D. Bainov et al. (eds.), SCT Publishing, (1994), pp. 91-100

#### Technical Reports:

- 1. Huanhuan Yang, Alessandro Veneziani Variational Estimation of Cardiac Conductivities by a Data Assimilation Procedure, Tech Report Math & CS Department, Emory, TR-2013-007 (2013)
- Tiziano Passerini, Jaroslaw Slawinski, Umberto Villa, Alessandro Veneziani, Vaidy Sunderam, Experiences with a computational fluid dynamics code on clouds, grids, and on-premise resources, Tech Report Math & CS Department, TR 2012-016
- 3. A. Veneziani, U. Villa, ALADINS: an ALgebraic splitting time ADaptive solver for the Incompressible Navier-Stokes equations. Part 2: Implementation and 3D numerical results, Tech Report Math & CS Department, TR 2011-011
- M. Piccinelli, L. Mirabella, T. Passerini, E. Haber, 4D Image-Based CFD Simulation of a Compliant Blood Vessel, Tech Report Math & CS Department, TR 2010-027
- 5. M. D'Elia, A. Veneziani A data assimilation technique for including noisy measurements of the velocity field into Navier-Stokes simulations, Tech Report Math & CS Department, TR 2010-008
- E. Agostoni, M. Perego, S. Salsa, A. Veneziani, Mathematical and Numerical Modeling of Focal Cerebral Ischemia, Tech Report Math & CS Department, TR 2009-009
- 7. A. Veneziani, Numerical analysis of two nonlinear models of the vibrating strings, Tech. Rep. Department of Mathematics, Politecnico di Milano n. 156, October 1994

#### Other Published Work:

S. Bacigaluppi, M. Piccinelli, L. Antiga, A. Veneziani, T. Passerini, P. Rampini, M. Zavanone, P. Severi, G. Tredici, G. Zona, T. Krings, E. Boccardi, S. Penco, M. Fontanella, Factors affecting formation and rupture of intracranial saccular aneurysms, Neurosurgical Review, 37(1), 2014 (images of the paper used for the cover)



- Dubini, G; Ambrosi, D; Bagnoli, P; Boschetti, F; Caiani, EG; Chiastra, C; Conti, CA; Corsini, C; Costantino, ML; D'Angelo, C; Formaggia, L; Fumero, R; Gastaldi, D; Migliavacca, F; Morlacchi, S; Nobile, F; Pennati, G; Petrini, L; Quarteroni, A; Redaelli, A; Stevanella, M; Veneziani, A; Vergara, C; Votta, E; Wu, W; Zunino, P, Trends in biomedical engineering: focus on Patient Specific Modeling and Life Support Systems, J Appl Biomater Biomech 9, 1090 (2011)
- A. Veneziani's Lab, Even Mathematics has a... Heart (in Italian) SIMAI, 2011 http://maddmaths.simai.eu/schede-divulgative/anche-la-matematica-ha-cuore/
- A. Quarteroni, F. Saleri, A. Veneziani, La modellistica va a scuola (Mathematical models in high schools teaching), Atti XXIV Convegno Nazionale sull'Insegnamento della Matematica (Proceedings of the 24th National Workshop on Math Teaching), 2006
- A. Veneziani, Geometrical multiscale modeling of the cardiovascular system: problems and perspectives, ERCOFTAC Bulletin 2006 Bio-fluid Mechanics and Heat Transfer (2006):
  - www.wtb.tue.nl/woc/wet/ercoftac/sigbio/bulletin2006.htm
- L. Formaggia, A. Veneziani, Reduced and Multiscale Models for the Circulatory System, Von Karman Institute Lecture Notes, May 2003

#### Invited Research Presentations:

(44 presentations out of 59 given after joining Emory)

- 1. BCAM, Bilbao (Spain), July 4th 2014 (invited talk)
- 2. National Group of Biomedical Engineering, Pavia (Italy), June 27th 2014 (plenary)
- 3. The 8th Southeast Meeting on Soft Materials, Emory University, Atlanta (GA), May 14th 2014 (plenary)
- 4. Georgia Scientific Computing, Kennesaw State University, GA Feb 22nd 2014 (Plenary)
- 5. MBI CTW Workshop Molecular to Systems Physiology, Columbus OH, 5-9 May 2014, invited talk
- ICERM Workshop, "From the Clinic to Partial Differential Equations and back", Providence, RI, Jan 19-24 2014 (Plenary + Tutorial)
- 3rd Int Conference on Computational & Mathematical Biomedical Engineering, City University of Hong-Kong, Tat Chee Avenue, Kowloon, Hong Kong SAR, (Keynote Speaker) Dec 16-18 2013
- 8. MBI Workshop: Mathematics Guiding Bioartificial Heart Valve Design, Columbus OH, 28-31 October 2013, invited talk
- 9. Advances in Computational Mechanics, San Diego CA, Feb 25-28 2013 (invited Minisymposium)
- 10. Conference Modeling and Simulation of Physiological Systems, Lisbon (PT), Dec 5-9 2012 (plenary)
- MBI Workshop Statistics of Time Warpings and Phase Variations Workshop, two invited talks, Columbus OH, 13-16
   November 2012, (invited talk)
- 12. 2nd Workshop on Scientific Computing in Health Applications: Sao Paulo, Brazil (Aug 6-8 2012), (Plenary)
- 13. 2012 SIAM Conference on Imaging Science Philadelphia, PA, May 21-23 2012, (Minisymposium)
- 14. Case Western Reserve University, Cleveland, OH 4/13/2012, (invited talk)
- 15. Career Day for Mathematical Engineering, Politecnico di Milano, Italy, October 19th 2011 (Plenary)
- 16. Data Assimilation in Computational Hemodynamics, University of Houston (9/28/2011) (Invited talk)
- 17. MITACS-Fields Conference on Mathematics of Medical Imaging, Vancouver (CA), 2-7 October 2011, invited talk

واسطح

- 18. Partial Differential Equations in Mathematical Physics and their Numerical Approximation, Levico Terme (Italy), September 4th-9th 2011, Plenary
- 19. MITACS-Fields Conference on Mathematics of Medical Imaging, Toronto (CA), 20-24 June 2011, Minisymposium
- 20. Mathematical Fluid Mechanics and Biomedical Applications, Azores (Portougal), June 2011, invited talk
- First Workshop on Approximation Theory and Harmonic Analysis (ATHA), Kennesaw State University GA (USA), May 14th-15th 2011, Plenary
- 22. Department of Mechanical Engineering, University of Pittsburgh, Pittsburgh PA (USA), Dec 9th 2010, invited talk
- 23. Department of Mathematical Sciences, Clemson University, Clemson SC (USA), Nov 12th 2010, invited talk
- 24. Department of Scientific Computing, Florida State University, Tallahassee FL (USA), Oct 27th 2010, invited talk
- 25. Department of Applied Mathematics, Brown University, Providence RI (USA), Oct 11th 2010, invited talk
- 26. IBM Watson Lab, Ossining, NY (USA), Sep 29 2010, invited talk
- 27. VI World Congress of Biomechanics, Singapore, 1-8 August 2010, Minisymposium
- 28. First Workshop on Scientific Computing in Health Applications, Petropolis, Brazil, 28-30 June 2010, Plenary
- 29. Mathematical Fluid Mechanics and Applications, Evora, Portugal, 18 June 2010, Plenary
- 30. Eccomas Conference in Computational Mechanics, Lisbon, Portugal, 13-17 June 2010, Minisymposium
- 31. Fourth Meeting on Modeling of Physiological Flows, Chia Laguna, Italy, 2-5 June 2010, Plenary
- 32. Emory Hospital, Emory University, Dec 4 2009, invited talk
- 33. Department of Mathematics, University of Alabama, AL, Nov 13 2009, invited talk
- 34. Computational Challenges in Integrative Biological Modeling, MBI Ohio State, Colmbus, October 5-8 2009, invited talk
- 35. Georgia Scientific Computing, Emory University, GA, Feb 21 2009, invited talk
- 36. Computational Life Sciences, Emory University, GA, Jan 30 2009, invited talk
- 37. Department of Mathematics, University of Colorado Springs, CO, Dec 12 2008
- 38. Department of Mathematics, University of Houston, TX, Nov 13 2008, invited talk
- 39. BergamoScienza, Bergamo, Italy, Oct 10 2008, Plenary
- 40. Workshop: Optimal Transport in the Human Body, Lungs and Blood, IPAM, UCLA, Los Angeles (CA), May 19-23 2008, Plenary
- 41. Emory Children Care, Atlanta, GA, USA, March 21 2008, invited talk
- 42. Emory Math & CS Graduate Students Seminar, Atlanta, GA, USA, March 18 2008, invited talk
- 43. Emory Hospital, Atlanta, GA, USA, November 30 2007, invited talk
- 44. Department of Mathematics, GA Tech, Atlanta, GA, USA, November 19 2007, invited talk
- 45. University of Padua, March 23rd 2007 (two invited talks in the same day)
- 46. Department of Mechanical Engineering, University of Pittsburgh, March 1st 2007, invited talk
- 47. Workshop INDAM Multiscale 2006, Cortona September 18-22 2006, Plenary



- 48. Workshop on Blood Flow Simulations, Heidelberg, May 13rd 2004, invited talk
- 49. VIII International Conference on Computational Fluid Dynamics, Oxford UK, March 29th- April 1st 2004, Plenary
- 50. University of Trento, December 3rd 2003, invited talk
- 51. University of Catania, November 13rd 2003, invited talk
- 52. Workshop on Fluid-Structure Interaction Methods in Biomedical and Astrophysical Applications, Catania, November 12nd 2003, invited talk
- 53. Contemporary Challenges in Fluid Dynamics, Capo Miseno (NA), 28 May 4 June 2001, Plenary
- 54. Neuroscience Department, University of Milano, October 13th 2000, invited talk
- 55. Istituto per le Applicazioni del Calcolo "M.Picone", Roma, March 31st 1999, invited talk
- 56. University of Bari, Bari, November 26-27th 1998 (two invited talks)
- 57. Centre for Advanced Research in Sardinia, Cagliari, July 2nd 1998, invited talk
- 58. Centre for Computational Engineering Research, Politecnico di Milano, May 8th 1996, invited talk

### Other Presentations:

- Numerous contributed talks and posters at various meetings (recently: American Mathematical Society Central Meeting, Lubbock, TX, April 2014, SIMAI Grup Meeting, Taormina, Italy, July 7-11 2014).
- Round Table at the Career Day in Mathematics, Kennesaw State University (GA), November 12th 2011
- "Excursion in Math", an event organized by the AWM, Emory, November 14th 2009
- "A tu per tu con...", Emory University (Department of Italian), March 2009
- Talks in some Italian high schools concerning the beauty of mathematics and the most challenging applications in medicine, sport, environmental sciences (last one: November 25 2013)
- Conference at the 24th Workshop UMI-CHM, Aci-Reale (CT), Italy on Teaching Mathematical Models in High Schools, October 13rd 2005
- Round Table on Perspectives of Applied Mathematics in Industry, Politecnico di Milano (with the Vice-Chairman of the National Industrial Association, Dr. Alberto Bombassei, the Provost of the Politecnico di Milano, the Chairman of the Poltecnico Foundation), May 23rd 2006
- FLUENT User Group Meeting, Milan, October 5th 2001 (Invited Talk)



### TEACHING

#### Teaching Experience:

Undergraduate:

Linear Algebra (Math 221), Emory University, AY 2007-2008, 2008-2009

Numerical Analysis (Math 315), Emory University, AY 2008-2009, 2009-2010, 2010-2011

Ordinary Differential Equations (Math 212), Emory University, AY 2009-2010, AY 2010-2011, AY 2014-2015

Partial Differential Equations (Math 351), Emory University, AY 2010-2011, AY 2011-2012, AY 2012-2013 (two semesters), AY 2013-2014 (two semesters), AY 2014-2015 (two semesters) Partial Differential Equations in Action (Math 352), Emory University, AY 2012-2013 (Maymester), AY 2013-2014

This course has been proposed and designed by Alessandro Veneziani for the students of Emory University Foundations of Mathematical Modeling, Emory University, Summer semester AY 2012-2013 (for high school students)

Numerical Analysis, Politecnico di Milano, from AY 2000-2001 to 2002-2003

Numerical Methods in Engineering, Politecnico di Milano, AY 2003-2004, 2004-2005

Mathematical and Numerical Methods for Aerospace Engineering, Politecnico di Milano, AY 2002-2003, 2003-2004

Computational Fluid Dynamics, Politecnico di Milano, from AY 2004-2005 to 2006-2007

Numerical Methods for Partial Differential Equations, Politecnico di Milano, from AY 2004-2005 to 2006-2007

Numerical Analysis (laboratory), University of Verona, from AY 1997-1998 to 1999-2000

Approximation of Differential Equations (laboratory), University of Verona, AY 1998-1999 1999-2000

Computers Architecture (laboratory), University of Verona, AY 1998-1999

Numerical Analysis, University of Bergamo, AY 2000-2001,2001-2002,2004-2005,2006-2007

Graduate:

Computational Fluid Dynamics, Emory University, AY 2008-2009

Numerical Analysis II, Emory University, AY 2007-2008, 2009-2010, 2011-1012, 2013-2014

Numerical Partial Differential Equations, Emory University, AY 2010-2011, AY 2012-2013, AY 2014-2015

Mathematical and Numerical Models for the Cardiovascular System, Politecnico di Milano, AY 2006-2007

Numerical Methods for Engineering, University of Bergamo, 2002-2003, 2003-2004;

Iterative Methods for Large Sparse Linear Systems (special topic five hours course), University of Verona, 1998-1999 Specialization, Continuing education Courses:

Finite Elements: basics and applications, Politecnico di Milano (several editions)

Computational Fluid Mechanics, Politecnico di Milano (several editions)

Energy Finance and Commodity Trading (Module on C++ Programming and Finite Element Modeling), Politecnico di Milano (2005-2006, 2006-2007)

Blood Flow Modeling and Simulation at the Ecole Polytechnique Federale de Lausanne (2003)

Blood Flow Modeling and Diagnostics at the Technical Institute in Warsaw (Poland, 2005) Blood Flow Modeling at the INRIA, Paris (2004)

Course on Mathematical Models for the Cardiovascular System (special topics 4 hours course) at the School of Neurology, S. Gerardo Hospital, Monza (2004)

EMS-SMI Cortona Summer School Mathematical and Numerical Models for the Cardiovascular System, Cortona (Italy), August 16-31, 2008.

ERCOFTAC Course on Fluid Structure Interaction in Biological Problems, Prague (Czech Republic), August 29-September 4, 2011

Course on Practical Computational Hemodynamics, Pavia (Italy), July 2-5, 2012

Course on Partial Differential Equations in Action, Emory, Atlanta (USA), May 14-31, 2013

Course on Computational Vascular Fluid Dynamics: from equations to software, Pavia (Italy), July 2-4, 2013

### Text Book (author)

L. Formaggia, F. Saleri, A. Veneziani, Solving Numerical PDE's: applications, problems and exercises, Springer-Verlag, December 2011 (previous Italian edition published by Springer Italy 2005)

D. Borthwick, A. Veneziani, An Introduction to Partial Differential Equations, A methodological approach, SPRINGER, In preparation (expected: 2015)



### Students and post-docs:

- Past PhD students:
  - 1. Alexis Aposporidis , November 2012, Emory University, USA, currently at the German Aerospace Center, DE
  - 2. Umberto Villa, November 2012, Emory University, USA, currently at Lawrence Livermore National Lab, CA,
  - 3. Marta D'Elia, November 2011, Emory University, USA, currently at Sandia National Lab, NM, USA
  - 4. Maria Rita De Luca, March 2009 Politecnico di Milano, Italy, currently at the International School for Advanced Studies, Trieste, Italy
  - 5. Lucia Mirabella, March 2010 Politecnico di Milano, Italy (1.5 year spent at Emory), currently at SIEMENS, Plainsboro, NJ, USA
  - Tiziano Passerini, March 2009, Politecnico di Milano, Italy (1.5 year spent at Emory), currently at SIEMENS, Plainsboro, NJ, USA
  - Mauro Perego, March 2009, Politecnico di Milano, Italy (1.5 year spent at Emory), currently at Sandia National Lab, NM, USA
  - 8. C. Vergara, February 2006, Politecnico di Milano, Italy, currently assistant professor at University of Bergamo, Italy
  - 9. S. Ragni (Co-advisor), July 2002, Politecnico di Milano, Italy. Advisor: Alfio Quarteroni, currently associate professor at University of Sassari, Italy

#### Current PhD students:

- 1. Anastasia Svishcheva (expected 2014) Emory University, USA;
- 2. Luca Bertagna (expected 2014) Emory University, USA;
- 3. Huanhuan Yang (expected 2015) Emory University, USA;
- 4. Boyi Yang (expected 2015) Emory University, USA;
- 5. Jim Munch (expected 2016) Emory University, USA;
- 6. Ricardo J Bonilla GA Tech, USA;
- 7. Sofia Guzzetti Emory University, USA
- 8. Alex Vigueire Emory University, USA
- 9. Alessandro Barone-Emory University, USA (beginning Jan 2015)

#### • Honors and SIRE Students

- 1. Kexin Qu, Emory University (2014)
- 2. Shannon Buckley, Emory University (2014)
- 3. Ye Yan, Emory University (2014)
- 4. Lan Mi, Emory University (2013)
- 5. Yifen Wang, Emory University (2013)
- 6. Dylan Connor, Emory University (2012)
- 7. Josh Keller, Emory University (2011)
- 8. Ruth Blum, Emory University (2010)
- 9. Elizabeth M. Cappello, Emory University (SIRE, 2010-2011)
- Other undergraduate students for small research projects (all at Emory University)



- 1. Emma Accorsi (2013)
- 2. Binjie Wei (2013)
- 3. Ngoc Hoan Lam Phan (2013)
- 4. Hamzah Iqmal (2012)
- 5. Jin Jing (2012)

### • Past MSc students (Italy):

- 1. A. Barone, Politecnico Milano, Mathematical Engineering (Coadvisor, Advisor: S. Perotto), (expected 2014)
- 2. S. Guzzetti, Politecnico Milano, Mathematical Engineering (Coadvisor, Advisor: S. Perotto), 2014
- 3. M. Lupo Pasini , Politecnico Milano, Mathematical Engineering (Coadvisor, Advisor: S. Perotto), 2013
- 4. M. Aletti, Politecnico Milano, Mathematical Engineering (Coadvisor, Advisor: S. Perotto), 2013
- 5. R. Sala, Politecnico Milano, Aerospace Engineeering, 2008
- 6. A. M. Costa, Politecnico Milano, Biomedical Engineering, 2007
- 7. S. Vele, Politecnico Milano, Mathematical Engineering, 2007
- 8. E. Maculan, Politecnico Milano, Mathematical Engineering, 2007
- 9. L. Botti, University of Bergamo, Mechanical Engineering (coop. With M. Negri Institute) 2006
- 10. M. Gazzola, Politecnico Milano, Nuclear Engineering, 2006
- 11. M. Astorino, Mathematical Engineering (in cooperation with Ducati Motor Holding)
- 12. L. Sala, University of Brescia, Mechanical Engineering 2005 (Coadvisor; Adv. Prof. P.Gervasio)
- 13. T. Passerini, Politecnico Milano, Biomedical Engineering, 2005
- 14. M. Perego, Politecnico Milano, Electronic Engineering, 2005
- 15. M.R. De Luca, Politecnico Milano, Biomedical Engineering, 2005
- 16. G. Pierantoni, University of Bergamo, Mechanical Engineering (coop. With M. Negri Institute) 2005
- 17. W. Mandelli, University of Bergamo, Mechanical Engineering (coop. With Brembo) 2004
- 18. P. Gabbiadini, University of Bergamo, Mechanical Engineering (coop. With Brembo) 2004
- 19. M. Meneghin, Politecnico di Milano, Energetic Engineering, 2004
- 20. A. Frullone, Politecnico Milano, Electronic Engineering, 2003
- 21. A. Gilardi, Politecnico di Milano, Aerospace Engineering, 2002
- 22. D. Mastalli, Politecnico Milano, Aerospace Engineering, 2002
- 23. C. Vergara, Politecnico Milano, Biomedical Engineering, 2002
- 24. G. Pertile, University of Verona, Computer Science 2002
- 25. C.Cavasin, University of Milan, Mathematics (Coadvisor; Adv: Prof. F. Saleri)
- 26. A. Di Matteo, Politecnico Milano, Aerospace Engineering, 2002
- 27. R. Bissoli, University of Verona, Computer Science, 2000
- 28. G. Concesa, Politecnico Milano, Electronic Engineering, 2000 (Coadvisor; Adv: Prof. A. Quarteroni)
- 29. V. Oliva, Politecnico Milano, Biomedical Engineering, 2000 (Coadvisor; Adv: Prof. A. Remuzzi)
- 30. S. Perticoni, Politecnico di Milano, Computer Science Engineering, 2002
- 31. G. L. Gamba, Politecnico Milano, Aerospace Engineering, 1999 (Coadvisor; Adv. Prof. A. Quarteroni)
- 32. S. Bellocchio, University of Milano, Mathematics, 1999 (Coadvisor; Adv. Prof. F. Saleri)
- 33. P. Zunino, Politecnico Milano, Aerospace Engineering, 1998 (Coadvisor; Adv. Prof. A. Quarteroni)



34. F. Nobile, Politecnico Milano, Electronic Engineering, 1998 (Coadvisor, Adv. Prof. A. Quarteroni)

#### • Post-doc:

- 1. Gaetano Esposito, Emory University (2014-present)
- 2. Leandro Gryngarten, Emory University (2013 present)
- 3. Tiziano Passerini, Emory University (2010-2013), currently at SIEMENS, Plainsboro, NJ, USA
- 4. Mauro Perego, Emory University (2009-2010), currently at Sandia National Lab, NM, USA
- 5. Lucia Mirabella, Emory University (2010), currently at SIEMENS, Plainsboro, NJ, USA
- 6. Luca Gerardo Giorda, Emory University (2008-2009), currently senior researcher at the Basque Center for Applied Math (BCAM), Bilbao, Spain
- 7. Christian Vergara, Politecnico di Milano (2006-2007), currently assistant professor at University of Bergamo, Italy

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#### SERVICE

### Institutional Activities:

- Member of Undergraduate Studies Committee, Dept. of Math & CS, Emory University (2011-present)
- PACE Advising for freshmen, Emory University (2010-present)
- Hiring Committee for a position in Computational Mathematics, Math & CS, Emory, USA, 2013-2014
- PhD Committee, Maria Restrepo, GA Tech, 2014
- PhD Committee, Sebastian Berisha, Emory University, USA, 2014
- PhD Committee, Jaroslaw Slawinski, Emory University, USA, 2013
- PhD Committee, Veronica Bustamante, Emory University, USA, 2013
- Hiring Committee for a position in Computational Imaging Science, Math & CS and Radiology, at Emory, USA, 2012
- PhD Committee, Marina Piccinelli, TU Eindhoven, The Netherlands, USA, 2012
- PhD Committee, Cristobal Bertoglio, Paris VI, France, 2012
- PhD Committee, Verhena Khulemann, Emory University, USA, 2012
- PhD Committee, Zheng Wang, Emory University, USA, 2011
- Honor Student Committee, Adam Waxman, Emory University, USA, 2011
- Honor Student Committee, James Nance, Emory University, USA, 2011
- PhD Proposal Committee, Elaine Tang, GA Tech, USA, 2012
- PhD Proposal Committee, Maria Restrepo, GA Tech, USA, 2011
- PhD Committee, Zhojhoun Magnant, Emory University, USA, 2011
- PhD Committee, Steven Hamilton, Emory University, USA, 2011
- PhD Committee, Raya Horesh, Emory University, USA, 2010
- PhD Proposal Committee, Ian Campbell, GA Tech, USA, 2009
- PhD Committee, Piotr Wendykier, Emory University, USA, 2009
- University of Verona, Member of the Committee for the PhD Program in Cardiovascular Sciences (2006-2008)
- Politecnico di Milano, Member of the Committee for the PhD Program in Mathematical Engineering (2006-2007)
- Hiring Committee for an Assistant Professor, Numerical Analysis, University of Bergamo (2007)
- PhD Committee, Daniele Lamponi, EPFL Lausanne, Switzerland, 2004
- Politecnico di Milano Graduate studies committee (2000-2007) in Aerospace, Biomedical, Mathematical Engineering.
- Co-developer of PhD track in Mathematical Engineering, Politecnico di Milano(2003) (Faculty Committee)
- University of Verona Graduate studies committee (1997-2000) in Computer Science.

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#### Professional Activities:

- Member of the American Mathematical Society (AMS)
- Member of the Society for Industrial and Applied Mathematics (SIAM)
- Member of the Scientific Board of the Center HTH (Human factors and Technology in Healthcare, Feb 2013 present),
   University of Bergamo, Italy

#### Editorial Work:

- Member of the Editorial Board of the International Journal of Numerical Methods in Bioengineering
- Member of the Review Editorial Board of Frontiers in Pediatric Cardiology (Frontiers in Pediatrics)
- Refereed about 75 papers for the following journals: Inverse Problems, Numer Math, Computers and Fluids, Computer
  in Biology and Medicine, J. Biomechanics, M2AN, Num Meth for PDE's, European J of Mechanics-B/Fluids, J Fluid
  Mech, Comp Meth Appl Mech Engr., Annals of Biomed Engr, Arch Appl Math, SIAM J Sc Comp, SIAM J Num Anal,
  J Comp Phys, Int J Num Meth Eng, SIAM J Sci Comp, Int J Num Meth Biomed Eng, J Med Devices
- Reviewer for the American Mathematical Society

# Conferences and Minisymposia Organized, Program/Scientific Committees: (13 out of 18 after joining Emory)

- ICERM Conference From the Clinic to Partial Differential Equations and Back: Emerging challenges for Cardiovascular Mathematics (January 20 - 24, 2014), Brown University 2014
- Minisymposium "Surrogate modeling approaches for PDEs", ENUMATH2013, August 2013, Lausanne, CH (with S. Perotto, K. Smetana)
- Georgia Scientific Computing, Emory University, February 12th 2011.
- Minisymposium "Computational Approaches to the Risk Assessment for Cerebral Aneurysms", ICIAM 2011, July 18
   22, 2011, Vancouver, BC, Canada (with M. Picinelli and T. Passerini)
- Minisymposium "Inverse problems in Cardiovascular Mathematics", ICIAM 2011, July 18 22, 2011, Vancouver, BC,
   Canada (with M. Perego)
- Minisymposium "Mathematical Models and Numerical Methods for Cardiac Electromechanics", ICIAM 2011, July 18 22, 2011, Vancouver, BC, Canada (with L. Mirabella)
- Minisymposium "Pateint specific modeling of blood flow problems", MATHEMATICS OF MEDICAL IMAGING, Toronto, Canada, June 20th-24th (with D. Steinman)
- Minisymposium "Computational approaches to the risk assessment for cerebral aneurysms" SIAM CSE 2011, Feb 28
   March 4, 2011 (with M. Picinelli and T. Passerini)
- Minisymposium "Computational challenges in patient-specific modeling: images, data and simulations" SIAM CSE 2011, Feb 28- March 4, 2011
- Minisymposium "Inverse Vascular Mathematics" (with C. Vergara), 2nd International Conference on Mathematical and Computational Biomedical Engineering - CMBE2011 March 30 - April 1, 2011, Washington D.C., USA
- Minisymposium "Methods of Numerical Cardial Electro-Mechanics" (with L. Mirabella, M. Perego), 2nd International Conference on Mathematical and Computational Biomedical Engineering CMBE2011 March 30 April 1, 2011, Washington D.C., USA

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- Minisymposium "Cardiovascular Mathematics" (with L Gerardo Giorda) at IMACS Conference 2009, Athens (GA),
- Minisymposium "Cardiovascular Mathematics" (with JF Gerbeau) at SIAM CSE Meeting 2009, Miami (FL), March 2-6, 2009.
- III Workshop on Modeling of Physiological Flows, Villa Camozzi (Ranica-BG), 25-27 Settembre 2006
- INDAM Workshop "Integrazione di Sistemi Complessi in Biomedicina: modelli, simulazioni, rappresentazioni", Bergamo, 22-24 November 2004
- First Internal Meeting Haemodel European Project, Bergamo, 29 April-2 May 2003
- International Workshop: "Cardiovascular System: from mathematics to clinical applications", Milan 6-8 March 2002
- Minisymposium: "Computational Hemodynamics: Problems and Methods", XI ECMI Conference, Altavilla Milicia (PA), September 2000

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### Roma, 3 ottobre 2014

La commissione si è riunita presso il dipartimento il 3 ottobre alle ore 14 per esaminare la documentazione e formulare una proposta per le chiamate dirette. Da un contatto con i membri della commissione di Facoltà (Salvati Manni e Birindelli) risulta che l'unica domanda pervenuta effettivamente praticabile con tempi così stretti sia quella presentata da Maurizio Falcone per il Prof. Alessandro Veneziani nella posizione di Professore

#### Medaglione del Prof Veneziani

nato il 25 Maggio 1969 ed attualmente professore associato presso il Department of Mathematics & Computer Science, Emory University, Atlanta (GA) USA.

#### Formazione

Pormazione
Octiorato Computational and Applied Mathematics, Università di Milano, 1998,
Titolo: Mathematical and Numerical Modeling of Blood Flow Problems, July 1998, Alfio Quarteroni, advisor.
Laurea (Master of Science) in Electronic Engineering, Politecnico di Milano, 1994

Altre posizioni (ultimi 5 anni)
External Program Faculty Department of Biomedical Enigneering, Georgia Institute of Technology Atlanta (GA)
USA (dal 2009) Visiting Professor, Universita' di Bergamo, Luglio 2013

#### Interessi di ricerca

Metadi Numerial per le EDP, Elementi Finiti, Tecniche di precandizionamento, Fluidodinamica computazione, Decomposizione di domini, Modellistica multiscala, Modellistica numerica del sistema cardiovascolare,

#### Pubblicazioni e premi

E' autore di 61 anicoli su riviste interazioni di ottimo livello, 10 capitoli su volume (referti), 21 atti di convegno. Ha ottenuto l'idonettà a PO SSD Analisi Numerica nella prima ASN.

E' stato insignito del Premio Sacchi Landriani per giovani analisti numerici nell'ambito delle equazioni a derivate

parziali nel 2006; un suo lavoro con Affio Quarteroni e Paolo Zunino e stato insignito delle equazioni a derivate Paper Prize nel 2004.

#### Numero di pubblicazioni ISI:

80 (Scopus) Fattore H. Google Scholar: 26 (dal 2009; 24); SCOPUS: 18

h-c (basalo su Scopus): 12

Numero totale di citazioni:

Google Scholar: 2828 (dat 2009: 1971) SCOPUS: 1150 (dal 2010: 669) Soglie Mediane ANVUR per il Settore Concorsuale

Num Articoff Normalizzato: 15.5 (Veneziani: 63 – da SCOPUS) Num Citazioni Normalizzato: 15.72 (Veneziani: 63.88 – da SCOPUS)

h-c: 7 (Venéziani: 12-- da SCOPUS)

li Prof. Veneziani ha dichiarato la sua ampia e convinta disponibilità a venire alla SAPIENZA dal. Novembre 2015. Ha recentemente vinto due grant della NSF ed ha coordinato vari progetti di ricerca nell'ambito della fluidodinamica computazione con applicazioni alla biomedicina.

La commissione unanime appoggia la proposta di chiamata diretta su un posto di PA MAT/08 Analisi Numerica

Roma, 3 ottobre 2014

Luigi Orsina

Maurizio Falcone

Paolo Piazza



Nome e Cognome: Enzo Pascale

Data di nascita: 27/02/1970

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PhD (data e università): 2007, University of Toronto, Canada

Posizione richiesta (I fascia, II fascia, RTDB o RTDA): Il fascia

Settore Concorsuale: 02/C1

Settore Scientifico Disciplinare: FIS/05

Posizione attuale: Senior Lecturer

Università o centro di ricerca estero e data di ingresso nella posizione: Cardiff

University, School of Physics and Astronomy, AUG/2012

Altre posizioni nell'ultimo quinquiennio:

2007-2010: Cardiff University, Lecturer, Grade 6 2010-2012: Cardiff University, Lecturer, Grade 7

Numero di pubblicazioni ISI (specificare fonte):

118-refereed, 97-non refereed, http://adsabs.harvard.edu/ Fattore H (specificare fonte): 43, http://adsabs.harvard.edu/

Numero totale di citazioni (specificare fonte): 11008, http://adsabs.harvard.edu/

Indicatori ANVUR:

# pubblicazioni nei 10 anni precedenti, normalizzato per età accademica: 89 refereed + 49 non-refereed

# citazioni normalizzate all' età accademica

# Indice H-c 33

Soglie Mediane ANVUR per il Settore Concorsuale :

# pubblicazioni nei 10 anni precedenti, normalizzato per età accademica: 32

# citazioni normalizzate all' età accademica 35.83

# Indice H-c 10

Eventuale partecipazione all'abilitazione nazionale e tutti i risultati conseguiti (sia positivi che negativi ottenuti): si, ha applicato ed è stato abilitato dal 27/12/2013 al 27/12/2019 per II fascia 02/C1. Inoltre, la posizione di Senior Lecturer in UK e' equivalente alla posizione di associato, secondo le tabelle di equipollenza pubblicate nel "Decreto Ministeriale N. 236, 2/6/2011", GU n.220, 21/9/2011.

Risulta vincitore di ERC o coordinatore di progetto Europeo? Se sì, specificare. Si, FP7-FISICA (Far-IR Space Interferometer Critical Assessment), Cardiff coordinator

Motivazione sintetica della richiesta (70 parole massimo) (possibilmente una sola frase, comprensibile da qualunque membro della Facoltà):

Per mantenere e migliorare la nostra posizione di riferimento nel campo di astrofisica e cosmologia osservative, con uno scienziato capace di esplorare nuovi filoni (come lo studio dei pianeti extrasolari nell' infrarosso) complementari e sinergici a quelli già perseguiti in Sapienza, e di grande impatto. Pascale combina eccellenti capacità scientifiche, tecnologiche, manageriali: ha dato contributi essenziali ad importanti esperimenti spaziali internazionali e coordinato tra l' altro una importante attività FP7.

#### Principali risultati ottenuti (250 Parole massimo):

Dopo i primi anni di attività in cui ha contribuito ad importanti misure di anisotropia del fondo cosmico di microonde [12], Pascale ha contribuito fin dall' inizio alla missione BLAST (telescopio submillimetrico di grande apertura su pallone stratosferico), ideando, costruendo e calibrando diversi suoi sottosistemi (vedi articolo [10] nell' elenco delle pubblicazioni selezionate). Con questo esperimento ha ottenuto una misura diretta della storia della formazione stellare nell' universo [9], definito il redshift di origine di buona parte del fondo cosmico infrarosso [8], identificato grazie a followup pancromatiche le controparti delle sorgenti misurate, stimando il tasso complessivo di formazione stellare, la frazione di nuclei galattici attivi [5], e studiato in dettaglio Lupus I con la versione polarimetrica di BLAST [1]. Ha contribuito alla missione Herschel, studiando una popolazione di galassie lontane fortemente amplificate da lenti gravitazionali [7] e producendo la prima versione della survey ATLAS con lo strumento SPIRE [5]. Recentemente ha contribuito allo sviluppo della camera di rivelatori ad induttanza cinetica NIKA, e ha ottenuto le prime osservazioni dell' effetto Sunyaev-Zeldovich con il telescopio IRAM di Pico Veleta [2]. Si è inoltre dedicato allo studio della rivelabilità di pianeti extrasolari per mezzo di spettroscopia infrarossa delle loro atmosfere [3,4].

CV Sintetico (15-20 righe), comprendente anche le principali attività didattiche, i dottorandi seguiti (con la loro attuale posizione lavorativa, se nota) e i principali finanziamenti ottenuti:

#### Interessi scientifici:

- Observational Cosmology
- · Cosmic Microwave Background
- CMB polarization
- Submillimeter Galactic and extragalactic astronomy
- Extrasolar Planets
- Astronomy Instrumentation.

#### Conoscenze tecniche:

Scientific instrumentation. All major programming languages (C, C++, Python, Fortran) and operating systems. Fluent in IDL, Matlab, Mathematica and Matcad. Digital electronics and FPGA development. Analog electronics. Signal processing. Noise analysis and modelling, etc.

#### Carriera accademica:

- Senior lecturer, Cardiff University, UK, Aug. 2012-present
   Lecturer, Cardiff University, UK, Oct. 2007-Jul. 2012
- PDRA, National Research Council-IROE, Italy, Jan. 1999-Dec. 2002
- PDRA, California Institute of Technology, CA, USA, 1996-1999

#### Finanziamenti ottenuti:

- UKSA EChO Study Support 2013-2014 [PI, £26]
   STFC-PRD, "BETTII FIR Interferometer", 2012-2015 [PI, £179K]
   FP7, SP1-Cooperation, "Far Infrared Space Interferometer Critical Assessment", 2013-2015 [PI, €350K]
- ESA-TRP, "Feasibility of using nanotechnology to improve TIR satellite imagers", 2012 [Col, £123K]
- UKSA, "EChO phase/a study", 2011-2014 [PI, £47K]
- ESA-TRP, "Modular wide field of view RF configurations", 2010-2012 [Col, €200K]
- Leverhulme Trust, "A study of Galactic polarized dust with BLAST-pol", 2011-2013 [PI, £185K]
   STFC PATT Rolling Grant, 2012-2014 [Col, £20K]
   STFC PATT Rolling Grant, 2010-2012 [Col, £22K]

- STFC PATT Rolling Grant, 2010-2012 [Col, £22R]
  STFC PATT Rolling Grant, 2008-2010 [Col, £24R]
  STFC Consolidated Grant, 2013-2016 [Col, £2.1M]
  STFC Instrumentation Rolling Grant, 2012-2013 [Col, £0.98M]
  STFC Astro Rolling grant, 2010-2013 [Col, £2.3M]
  STFC Instrumentation Rolling Grant, 2009-2012 [Col, £2.2M]
  Cardiff University, "Start up grant", [Pl, £100K]
  Ontario Graduate Scholarship (OGS), 2004-2005

- Cardiff University CUROP studentships awarded in 2010, 2012, 2013 (one in each year)

#### Attività didattica:

Corsi tenuti:
2007/2011 Investigative Physics (PX1217, 1st year, 10 credits),
2007/2012 Electromagnetism (PX2224, 2nd year, 10 credits)
2011/2013 Mathematics for Physical Scientists II, (PX1216, 1st year, 10 credits)
2012/now Physics of the Early Universe (PX4223, 4th year, 10 credits)
2013/now Cosmology (PX3146, 3th year, 10 credits)
Inoltre, importante attività di Deputy Module Organizer

#### Supervisione di Dottorandi:

2008/2011 Ph.D. Primary Supervisor, dr L. Moncelsi 2009/2014 Ph.D. Second Supervisor, dr R. Juanola—Parramon (UCL). 2011/now Ph.D. Primary Supervisor, mr S. Rowe (6 month extension awarded) 2013/now Ph.D. Primary Supervisor of mr S. Sarkar

#### Pagina web personale:

http://www.astro.cf.ac.uk/contactsandpeople/?page=full&id=444

#### Elenco dei lavori principali (massimo 12):. in ordine cronologico inverso:

[1]. Matthews, T. G., Ade, P. A. R., Angile`, F. E., Benton, S. J., Chapin, E. L., Chapman, N. L., Devlin, M. J., Fissel, L. M., Fukui, Y., Gandilo, N. N., Gundersen, J. O., Hargrave, P. C., Klein, J., Korotkov, A. L., Moncelsi, L., Mroczkowski, T. K., Netterfield, C. B., Novak, G., Nutter, D., Olmi, L., **Pascale, E.**, Poidevin, F., Savini, G., Scott, D., Shariff, J. A., Soler, J. D., Tachihara, K., Thomas, N. E., Truch, M. D. P., Tucker, C. E., Tucker, G. S., Ward-Thompson, D.

"Lupus I Observations from the 2010 Flight of the Balloon-borne Large Aperture Submillimeter Telescope for Polarimetry" ApJ, 714, 116, 2014. Journal Impact Factor 7.436.

[2]. Adam, R., Comis, B., Maci'as-Pe'rez, J.~F., Adane, A., Ade, P., Andre', P., Beelen, A., Belier, B., Benoit, A., Bideaud, A., Billot, N., Boudou, N., Bourrion, O., Calvo, M., Catalano, A., Coiffard, G., D'Addabbo, A., De'sert, F.-X., Doyle, S., Goupy, J., Kramer, C., Leclercq, S., Martino, J., Mauskopf, P., Mayet, F., Monfardini, A., Pajot, F., **Pascale, E.**, Perotto, L., Pointecouteau, E., Ponthieu, N., Reve'ret, V., Rodriguez, L., Savini, G., Schuster, K., Sievers, A., Tucker, C., Zylka, R. "First observation of the thermal Sunyaev-Zel'dovich effect with Kinetic Inductance Detectors" A&A (submitted), arXiv:1310.6237 (2013). Journal Impact Factor 4.410

[3]. Tessenyi, M., Tinetti, G., Savini, G., **Pascale, E.** "Molecular detectability in exoplanetary emission spectra" Icarus, 226, 1654 (2013). Journal Impact Factor 3.190

[4]. Tinetti, G.; Beaulieu, J. P.; Henning, T.; Meyer, M.; Micela, G.; Ribas, I.; Stam, D.; Swain, M.; Krause, O.; Ollivier, M.; Pace, E.; Swinyard, B.; Aylward, A.; van Boekel, R.; Coradini, A.; Encrenaz, T.; Snellen, I.; Zapatero-Osorio, M. R.; Bouwman, J.; Y-K. Cho, J.; Coudé du Foresto, V.; Guillot, T.; Lopez-Morales, M.; Mueller-Wodarg, I.; Palle, E.; Selsis, F.; Sozzetti, A.; Ade, P. A. R.; Achilleos, N.; Adriani, A.; Agnor, C. B.; Afonso, C.; Allende Prieto, C.; Bakos, G.; Barber, R. J.; Barlow, M.; Bernath, P.; Bezard, B.; Bordé, P.; Brown, L. R.; Cassan, A.; Cavarroc, C.; Ciaravella, A.; Cockell, C. O. U.; Coustenis, A.; Danielski, C.; Decin, L.; De Kok, R.; Demangeon, O.; Deroo, P.; Doel, P.; Drossart, P.; Fletcher, L. N.; Focardi, M.; Forget, F.; Fossey, S.; Fouqué, P.; Frith, J.; Galand, M.; Gaulme, P.; González Hernández, J. I.; Grasset, O.; Grassi, D.; Grenfell, J. L.; Griffin, M. J.; Griffith, C. A.; Grözinger, U.; Guedel, M.; Guio, P.; Hainaut, O.; Hargreaves, R.; Hauschildt, P. H.; Heng, K.; Heyrovsky, D.; Hueso, R.; Irwin, P.; Kaltenegger, L.; Kervella, P.; Kipping, D.; Koskinen, T. T.; Kovács, G.; La Barbera, A.; Lammer, H.; Lellouch, E.; Leto, G.; Lopez Morales, M.; Lopez Valverde, M. A.; Lopez-Puertas, M.; Lovis, C.; Maggio, A.; Maillard, J. P.; Maldonado Prado, J.; Marquette, J. B.; Martin-Torres, F. J.; Maxted, P.; Miller, S.; Molinari, S.; Montes, D.; Moro-Martin, A.; Moses, J. I.; Mousis, O.; Nguyen Tuong, N.; Nelson, R.; Orton, G. S.; Pantin, E.; Pascale, E.;

- Pezzuto, S.; Pinfield, D.; Poretti, E.; Prinja, R.; Prisinzano, L.; Rees, J. M.; Reiners, A.; Samuel, B.; Sanchez-Lavega, A.; Sanz Forcada, J.; Sasselov, D.; Savini, G.; Sicardy, B.; Smith, A.; Stixrude, L.; Strazzulla, G.; Tennyson, J.; Tessenyi, M.; Vasisht, G.; Vinatier, S.; Viti, S.; Waldmann, I.; White, G. J.; Widemann, T.; Wordsworth, R.; Yelle, R.; Yung, Y.; Yurchenko, S. N. "EchO Exoplanet Characterisation Observatory" Exp Astron, 34, 311 (2012). Journal Impact Factor: 2.14
- [5]. Pascale, E. Auld, R. Dariush, A. Dunne, L. Eales, S. Maddox, S. Panuzzo, P. Pohlen, M. Smith, D. J. B. Buttiglione, S. Cava, A. Clements, D. L. Cooray, A. Dye, S. de Zotti, G. Fritz, J. Hopwood, R. Ibar, E. Ivison, R. J. Jarvis, M. J. Leeuw, L. López-Caniego, M. Rigby, E. Rodighiero, G. Scott, D. Smith, M. W. L. Temi, P. Vaccari, M. Valtchanov, I. "The first release of data from the Herschel ATLAS: the SPIRE images" Monthly Notices of the Royal Astronomical Society, Volume 415, Issue 1, pp. 911-917". Year: 2011. Journal Impact Factor 4.888
- [6]. "Moncelsi, Lorenzo Ade, Peter A. R. Chapin, Edward L. Cortese, Luca Devlin, Mark J. Dye, Simon Eales, Stephen Griffin, Matthew Halpern, Mark Hargrave, Peter C. Marsden, Gaelen Mauskopf, Philip Netterfield, Calvin B. **Pascale, Enzo** Scott, Douglas Truch, Matthew D. P. Tucker, Carole Viero, Marco P. Wiebe, Donald V. "A Panchromatic Study of BLAST Counterparts: Total Star Formation Rate, Morphology, Active Galactic Nucleus Fraction, and Stellar Mass" The Astrophysical Journal, Volume 727, Issue 2, article 83 (2011). Journal Impact Factor 7.436
- [7]. Mattia Negrello, R. Hopwood, G. De Zotti, A. Cooray, A. Verma, J. Bock, D. T. Frayer, M. A. Gurwell, A. Omont, R. Neri, H. Dannerbauer, L. L. Leeuw, E. Barton, J. Cooke, S. Kim, E. da Cunha, G. Rodighiero, P. Cox, D. G. Bonfield, M. J. Jarvis, S. Serjeant, R. J. Ivison, S. Dye, I. Aretxaga, D. H. Hughes, E. Ibar, F. Bertoldi, I. Valtchanov, S. Eales, L. Dunne, S. P. Driver, Auld, S. Buttiglione, A. Cava, C. A. Grady, D. L. Clements, A. Dariush, J. Fritz, D. Hill, J. B. Hornbeck, L. Kelvin, G. Lagache, M. Lopez-Caniego, J. Gonzalez-Nuevo, S. Maddox, E. Pascale, M. Pohlen, E. E. Rigby, A. Robotham, C. Simpson, D. J. B. Smith, P. Temi, M. A. Thompson, B. E. Woodgate, D. G. York, J. E. Aguirre, A. Beelen, A. Blain, A. J. Baker, M. Birkinshaw, R. Blundell, C. M. Bradford, D. Burgarella, L. Danese, et al. (25 additional authors not shown) "The Detection of a Population of Submillimeter-Bright, Strongly-Lensed Galaxies" Science, 330, 899, (2010). Journal Impact Factor 31.2
- [8]. Devlin, Mark J., Ade Peter A. R., Aretxaga Itziar, Bock James, J. Chapin Edward, L. Griffin Matthew, Gundersen Joshua, O. Halpern Mark, Hargrave Peter, C. Hughes David, H. Klein Jeff, Marsden Gaelen, Martin Peter G., Mauskopf Philip, Moncelsi Lorenzo, Netterfield Calvin B., Ngo Henry, Olmi Luca, **Pascale Enzo**, Patanchon Guillaume, Rex Marie, Scott Douglas, Semisch Christopher, Thomas Nicholas, Truch Matthew D. P., Tucker Carole, Tucker Gregory S., Viero Marco P., Wiebe Donald V. *"Over half of the far-infrared background light comes from galaxies at z>=1.2"* Nature, Volume 458, Issue 7239, pp. 737-739 (2009). Journal Impact Factor 36.101
- [9]. Pascale Enzo, Ade, Peter A. R. Bock, James J. Chapin, Edward L. Devlin, Mark J. Dye, Simon Eales, Steve A. Griffin, Matthew Gundersen, Joshua O. Halpern, Mark Hargrave, Peter C. Hughes, David H. Klein, Jeff Marsden, Gaelen Mauskopf, Philip Moncelsi, Lorenzo Ngo, Henry Netterfield, Calvin B. Olmi, Luca Patanchon, Guillaume Rex, Marie Scott, Douglas Semisch, Christopher Thomas, Nicholas Truch, Matthew D. P. Tucker, Carole Tucker, Gregory S. Viero, Marco P. Wiebe, Donald V. "BLAST: A Far-Infrared Measurement of the History of Star Formation" The Astrophysical Journal, Volume 707, Issue 2, pp. 1740-1749 (2009). Journal Impact Factor 7.436
- [10]. **Pascale, E.** Ade, P. A. R. Bock, J. J. Chapin, E. L. Chung, J. Devlin, M. J. Dicker, S. Griffin, M. Gundersen, J. O. Halpern, M. Hargrave, P. C. Hughes, D. H. Klein, J. MacTavish,

- C. J. Marsden, G. Martin, P. G. Martin, T. G. Mauskopf, P. Netterfield, C. B. Olmi, L. Patanchon, G. Rex, M. Scott, D. Semisch, C. Thomas, N. Truch, M. D. P. Tucker, C. Tucker, G. S. Viero, M. P. Wiebe, D. V. "The Balloon-borne Large Aperture Submillimeter Telescope: BLAST" The Astrophysical Journal, Volume 681, Issue 1, pp. 400-414 (2008). Journal Impact Factor 7.436
- [11]. "Netterfield, Calvin B. Ade, Peter A. R. Bock, James J. Chapin, Edward L. Devlin, Mark J. Griffin, Matthew Gundersen, Joshua O. Halpern, Mark Hargrave, Peter C. Hughes, David H. Klein, Jeff Marsden, Gaelen Martin, Peter G. Mauskopf, Phillip Olmi, Luca **Pascale, Enzo** Patanchon, Guillaume Rex, Marie Roy, Arabindo Scott, Douglas Semisch, Christopher Thomas, Nicholas Truch, Matthew D. P. Tucker, Carole Tucker, Gregory S. Viero, Marco P. Wiebe, Donald V. "BLAST: The Mass Function, Lifetimes, and Properties of Intermediate Mass Cores from a 50 deg2 Submillimeter Galactic Survey in Vela (ell ~ 265°)" The Astrophysical Journal, Volume 707, Issue 2, pp. 1824-1835 (2009). Journal Impact Factor 7.436
- [12]. de Bernardis, P. Ade, P. A. R. Bock, J. J. Bond, J. R. Borrill, J. Boscaleri, A. Coble, K. Crill, B. P. De Gasperis, G. Farese, P. C. Ferreira, P. G. Ganga, K. Giacometti, M. Hivon, E. Hristov, V. V. Iacoangeli, A. Jaffe, A. H. Lange, A. E. Martinis, L. Masi, S. Mason, P. V. Mauskopf, P. D. Melchiorri, A. Miglio, L. Montroy, T. Netterfield, C. B. **Pascale, E.** Piacentini, F. Pogosyan, D. Prunet, S. Rao, S. Romeo, G. Ruhl, J. E. Scaramuzzi, F. Sforna, D. Vittorio, N. **"A flat Universe from high-resolution maps of the cosmic microwave background radiation"** Nature, Volume 404, Issue 6781, pp. 955-959 (2000)". Year: 2000. Journal Impact Factor 36.101

#### Curriculum vitae et studiorum - Enzo Pascale

Cardiff University – School of Physics and Astronomy Queen's Buildings, 5 The Parade Cardiff CF24 3AA United Kingdom Tel.: +44 2920 875031

#### Research interests

Observational Cosmology – Cosmic Microwave Background – CMB polarization – Submillimeter Galactic and extragalactic astronomy – Star Formation – Extrasolar Planets – Astronomy Instrumentation.

#### **Academic Experience**

- Senior lecturer, Cardiff University, UK, Aug. 2012-present
- Lecturer, Cardiff University, UK, Oct. 2007-Jul. 2012
- PDRA, National Research Council-IROE, Italy, Jan. 1999-Dec. 2002
- PDRA, California Institute of Technology, CA, USA, 1996-1999

#### **Grants and Fellowships**

- UKSA EChO Study Support 2013-2014 [PI, £26]
- STFC-PRD, "BETTII FIR Interferometer", 2012-2015 [PI, £179K]
- FP7, SP1-Cooperation, "Far Infrared Space Interferometer Critical Assessment", 2013-2015 [PI, €350K]
- ESA-TRP, "Feasibility of using nanotechnology to improve TIR satellite imagers", 2012
   [Col, £123K]
- UKSA, "EChO phase/a study", 2011-2014 [PI, £47K]
- ESA-TRP, "Modular wide field of view RF configurations", 2010-2012 [Col, €200K]
- Leverhulme Trust, "A study of Galactic polarized dust with BLAST-pol", 2011-2013 [PI, £185K]
- STFC PATT Rolling Grant, 2012-2014 [Col, £20K]
- STFC PATT Rolling Grant, 2010-2012 [Col, £22K]
- STFC PATT Rolling Grant, 2008-2010 [Col, £49K]
- STFC Consolidated Grant, 2013-2016 [Col, £2.1M]
- STFC Instrumentation Rolling Grant, 2012-2013 [Col, £0.98M]
- STFC Astro Rolling grant, 2010-2013 [Col, £2.3M]
- STFC Instrumentation Rolling Grant, 2009-2012 [Col, £2.2M]
- Cardiff University, "Start up grant", [PI, £100K]
- Ontario Graduate Scholarship (OGS), 2004-2005
- Cardiff University CUROP studentships awarded in 2010, 2012, 2013 (one in each year)

Note: Information about STFC and UKSA grants can be collected from the RCUK web page.

#### **Education**

- Ph.D. in Experimental Physics, University of Toronto, ON, Canada. Advisor: Prof. C. B. Netterfield (defence 2007).
- Laurea in Experimental Physics, summa cum laude, Univeristy of Rome "La Sapienza", Italy, 1996

#### **Professional Training**

- Leadership & Management Development Programme for Research Team Leaders, Modules 1 and 2 (2014)
- Cardiff University Equality & Diversity awareness training for staff with line management responsibilities (2014) with line management responsibilities
- Postgraduate Certificate in University Teaching and Learning, PCUTL, 2010.

#### Memberships and Peer-reviews

- · School board member, School of Physics and Astronomy, Cardiff University
- · Research committee member, School of Physics and Astronomy, Cardiff University
- Exam panel member, School of Physics and Astronomy, Cardiff University
- Space Action Network (SPAN) member.
- · Fellow of the Higher Education Academy.
- Fellow of the Royal Astronomical Society.
- University of Toronto Alumni Association.
- I peer-review grant applications submitted to the NSF in the USA, and to the STFC in the UK.
- I referee papers submitted to several specialist journals: Astrophysical Journal, Applied Optics, Journal of Instrumentation, MNRAS and Icarus. I have been a member of the editorial board of Dataset Papers in Science until Feb. 2014.

#### Outreach

Popular papers on national/European and overseas newspapers; tv and radio interviews in the UK, Canada and Italy; Organised UK screening of the documentary film "Blast", coproduced by BBC; gave several non-specialist talks on topic related to balloon-borne astronomy in the UK and in the USA.

**Technical expertise** 

Scientific instrumentation. All major programming languages (C, C++, Python, Fortran) and operating systems. Fluent in IDL, Matlab, Mathematica and Matcad. Digital electronics and FPGA development. Analogue electronics. Signal processing. Noise analysis and modelling, etc.

Languages

Native Italian, fluent in English, very good understanding of French.

#### **Projects**

Ongoing

- Atmospheric Remote-sensing Infrared Exoplanet Large-survey ARIEL [Col].
- Twinkle: a UK-led transit spectrometer experiment in Near-Earth Orbit [Col]
- SpEChO, exoplanet transit spectrometer instrument on SPICA

  [Col]

•	The Exoplanet Characterisation Observatory – EChO The Balloon-borne Exoplanet Transit Spectrometer Pathfinder The balloon-borne exoplanet characterization experiment - EchOBeach	[Col] [Col] [Pl] [Pl]
•	Far-IR Space Interferometer Critical Assessment – FISICA Readout electronics and data acquisition systems for Kinetic Inductance	Detectors
•	KIDCam: Passive THz and submm imaging Millimeter-wave cameras: NIKA, NIKA2 and ToITEC The Balloon-borne Far-IR interferometer – BETTII The Balloon-borne Large-Aperture Submillimetric Telescope – BLAST, B	[Cardiff lead] [Col] [Col] [Cardiff Pl]
•	and BLAST–TNG The E and B Experiment – EBEX	[Cardiff PI]

### Completed

• Infrared Balloon Experiment, IBEX [Instrument scientist]

• Spectroscopy of the atmosphere by Far Infrared Emission – Airborne, SAFIRE–A [team member]

 Balloon Observation Of Millimetric Extragalactic Radiation and Geophysics, BOOMERanG [team member]

Millimeter wave Anisotropy eXperiment Imaging Array, MAXIMA [collaborator]

Millimeter wave Anisotropy eXperiment, MAX [collaborator]

### Teaching and examination

As Module (	Organizer – Undergraduate:			
2007/2011	Investigative Physics	(PX1217, 1 <sup>st</sup> year, 10 credits)		
2007/2012	Electromagnetism	(PX2224, 2 <sup>nd</sup> year, 10 credits)		
2011/2013	Mathematics for Physical Scientists II,	(PX1216, 1 <sup>st</sup> year, 10 credits)		
2012/now	Physics of the Early Universe	(PX4223, 4 <sup>th</sup> year, 10 credits)		
2013/now	Cosmology	(PX3146, 3 <sup>th</sup> year, 10 credits)		
As Deputy Module Organizer – Undergraduate:				
As Deputy N	/lodule Organizer – Undergraduate:			
As Deputy N 2011/2013	Module Organizer – Undergraduate:  Mathematical Methods for Physicists I	(PX1122, 1 <sup>st</sup> year, 10 credits)		
		(PX3231, 3 <sup>rd</sup> year, 10 credits)		
2011/2013	Mathematical Methods for Physicists I	(PX3231, 3 <sup>rd</sup> year, 10 credits) (PX1210, 1 <sup>st</sup> year, 10 credits)		
2011/2013 2012/2013	Mathematical Methods for Physicists I Physical Cosmology	(PX3231, 3 <sup>rd</sup> year, 10 credits) (PX1210, 1 <sup>st</sup> year, 10 credits) (PX2107, 2 <sup>nd</sup> year, 10 credits)		
2011/2013 2012/2013 2008/2011	Mathematical Methods for Physicists I Physical Cosmology Electricity and Magnetism	(PX3231, 3 <sup>rd</sup> year, 10 credits) (PX1210, 1 <sup>st</sup> year, 10 credits)		

#### As Project Supervisor and tutor – Undergraduate:

- Since 2008, I have been supervising undergraduate students during their 3rd and 4th year project (worth 20 and 60 credits, respectively) or during their summer placements in my laboratory.
- Since 2007, I have covered the role of personal and academic tutor of several undergraduate students.
- Cardiff University Research Opportunities Programme (CUROP) students: 2010, mr
   S. Rowe; 2012 mr I. Meek, 2013 mr J. Johnstone.
- Mr E. Phan Van Song, Univerite' Paris—Sud, 2013 (Summer training)

#### Postgraduate teaching

2009/now Postgraduate lectures on photometric techniques.
2013/now Postgraduate lectures on astronomy instrumentation.

### Ph.D. students supervised and Ph.D. examinations

Students supervised

2008/2011 Ph.D. Primary Supervisor, dr L. Moncelsi

2009/2014 Ph.D. Second Supervisor, dr R. Juanola-Parramon (UCL).

2011/now Ph.D. Primary Supervisor, mr S. Rowe (6 month extension awarded)

2013/now Ph.D. Primary Supervisor of mr S. Sarkar

Ph.D. Vivas

2011, dr G. Raymond (Internal examiner)

2013, mr J. Yu (Internal examiner)

2014, dr. E. Pearson (Internal exminer)

### **Post-doctoral Research Assistants**

• Dr D. Nutter, dr F. Poidevin, dr R. Auld, dr. R. Sudiwala, dr W. Grainger, dr. L. Spencer, dr. P. Moseley.

### **Conferences Scientific Organising Committees**

- Session organizer and convener (Exoplanet instrumentation): NAM 2014
- Session organizer and convener (Exoplanet instrumentation): EPSC 2014
- Session organizer and convener (Exoplanet instrumentation): EPSC 2013
- Organiser, Exoplanet Characterisation Observatory, UK National Workshop, a Royal Astronomical Society Specialist Meeting, London 2013.
- Organiser, Second European Workshop on Far-IR Interferometry Technology Development, Cardiff 2011

#### **Recent Invited Talks**

- EPSC 2014
- EPSC 2013
- Scientific Committee on Antarctic Research, Astronomy and Astrophysics from Antarctica, Siena 2013 (two presentations invited)
- Oxford, Atmospheric, Oceanic and Planetary Physics, Oxford 2013
- IAU General Assembly, Astrophysics form Antarctica, Beijing 2012
- University College London, London 2010
- Arena Conference "An Astronomical Observatory at Concordia for the next decade", Rome 2009
- Imperial College London, London 2009
- SPICA: Joint European Japanese Workshop Science Programme, Oxford 2009

### National/International Conferences attended

In addition to the invited talks listed above, I have recently attended the following international conferences since appointment to senior lecturer.

- Exoplanet UK Community Meeting Cambridge, April 14-16 2014, Poster contribution
- Exoplanet Characterisation Observatory, UK National Workshop, a Royal Astronomical Society Specialist Meeting, London 2013, poster contribution
- SPIE, Amsterdam 2012, Oral presentation
- SPIE, Amsterdam 2012, Poster contribution

#### **Publications**

Over 100 refereed publications, h-index 44.

A list of refereed publications can be found at the following link.

A list of non-refereed publications can be found at the following <u>link</u>.

#### **Selected Publications**

Ordered by Date (most recent first)

- Matthews, T. G., Ade, P. A. R., Angile', F. E., Benton, S. J., Chapin, E. L., Chapman, N. L., Devlin, M. J., Fissel, L. M., Fukui, Y., Gandilo, N. N., Gundersen, J. O., Hargrave, P. C., Klein, J., Korotkov, A. L., Moncelsi, L., Mroczkowski, T. K., Netterfield, C. B., Novak, G., Nutter, D., Olmi, L., Pascale, E., Poidevin, F., Savini, G., Scott, D., Shariff, J. A., Soler, J. D., Tachihara, K., Thomas, N. E., Truch, M. D. P., Tucker, C. E., Tucker, G. S., Ward-Thompson, D.
  - "Lupus I Observations from the 2010 Flight of the Balloon-borne Large Aperture Submillimeter Telescope for Polarimetry"

ApJ, 714, 116, 2014. Journal Impact Factor 7.436.

- Adam, R., Comis, B., Maci'as-Pe'rez, J.~F., Adane, A., Ade, P., Andre', P., Beelen, A., Belier, B., Benoit, A., Bideaud, A., Billot, N., Boudou, N., Bourrion, O., Calvo, M., Catalano, A., Coiffard, G., D'Addabbo, A., De'sert, F.-X., Doyle, S., Goupy, J., Kramer, C., Leclercq, S., Martino, J., Mauskopf, P., Mayet, F., Monfardini, A., Pajot, F., Pascale, E., Perotto, L., Pointecouteau, E., Ponthieu, N., Reve'ret, V., Rodriguez, L., Savini, G., Schuster, K., Sievers, A., Tucker, C., Zylka, R.
  - "First observation of the thermal Sunyaev-Zel'dovich effect with Kinetic Inductance Detectors" A&A (submitted), arXiv:1310.6237 (2013). Journal Impact Factor 4.410.
- 3. Tessenyi, M., Tinetti, G., Savini, G., Pascale, E.

"Molecular detectability in exoplanetary emission spectra" Icarus, 226, 1654 (2013). Journal Impact Factor 3.190.

Tinetti, G.; Beaulieu, J. P.; Henning, T.; Meyer, M.; Micela, G.; Ribas, I.; Stam, D.; Swain, M.; Krause, O.; Ollivier, M.; Pace, E.; Swinyard, B.; Aylward, A.; van Boekel, R.; Coradini, A.; Encrenaz, T.; Snellen, I.; Zapatero-Osorio, M. R.; Bouwman, J.; Y-K. Cho, J.; Coudé du Foresto, V.; Guillot, T.; Lopez-Morales, M.; Mueller-Wodarg, I.; Palle, E.; Selsis, F.; Sozzetti, A.; Ade, P. A. R.; Achilleos, N.; Adriani, A.; Agnor, C. B.; Afonso, C.; Allende Prieto, C.; Bakos, G.; Barber, R. J.; Barlow, M.; Bernath, P.; Bezard, B.; Bordé, P.; Brown, L. R.; Cassan, A.; Cavarroc, C.; Ciaravella, A.; Cockell, C. O. U.; Coustenis, A.; Danielski, C.; Decin, L.; De Kok, R.; Demangeon, O.; Deroo, P.; Doel, P.; Drossart, P.; Fletcher, L. N.; Focardi, M.; Forget, F.; Fossey, S.; Fouqué, P.; Frith, J.; Galand, M.; Gaulme, P.; González Hernández, J. I.; Grasset, O.; Grassi, D.; Grenfell, J. L.; Griffin, M. J.; Griffith, C. A.; Grözinger, U.; Guedel, M.; Guio, P.; Hainaut, O.; Hargreaves, R.; Hauschildt, P. H.; Heng, K.; Heyrovsky, D.; Hueso, R.; Irwin, P.; Kaltenegger, L.; Kervella, P.; Kipping, D.; Koskinen, T. T.; Kovács, G.; La Barbera, A.; Lammer, H.; Lellouch, E.; Leto, G.; Lopez Morales, M.; Lopez Valverde, M. A.; Lopez-Puertas, M.; Lovis, C.; Maggio, A.; Maillard, J. P.; Maldonado Prado, J.; Marquette, J. B.; Martin-Torres, F. J.; Maxted, P.; Miller, S.; Molinari, S.; Montes, D.; Moro-Martin, A.: Moses, J. I.: Mousis, O.: Nguyen Tuong, N.; Nelson, R.; Orton, G. S.; Pantin, E.; Pascale, E.; Pezzuto, S.; Pinfield, D.; Poretti, E.; Prinja, R.; Prisinzano, L.; Rees, J. M.; Reiners, A.; Samuel, B.; Sanchez-Lavega, A.; Sanz Forcada, J.; Sasselov, D.; Savini, G.; Sicardy, B.; Smith, A.; Stixrude, L.; Strazzulla, G.; Tennyson, J.; Tessenyi, M.; Vasisht, G.; Vinatier, S.; Viti, S.; Waldmann, I.; White, G. J.; Widemann, T.; Wordsworth, R.; Yelle, R.; Yung, Y.; Yurchenko, S. N.

"EChO - Exoplanet Characterisation Observatory" Exp Astron, 34, 311 (2012). Journal Impact Factor: 2.14,

- 5. Pascale, E. Auld, R. Dariush, A. Dunne, L. Eales, S. Maddox, S. Panuzzo, P. Pohlen, M. Smith, D. J. B. Buttiglione, S. Cava, A. Clements, D. L. Cooray, A. Dye, S. de Zotti, G. Fritz, J. Hopwood, R. Ibar, E. Ivison, R. J. Jarvis, M. J. Leeuw, L. López-Caniego, M. Rigby, E. Rodighiero, G. Scott, D. Smith, M. W. L. Temi, P. Vaccari, M. Valtchanov, I.
  - "The first release of data from the Herschel ATLAS: the SPIRE images"
    Monthly Notices of the Royal Astronomical Society, Volume 415, Issue 1, pp. 911-917". Year: 2011.
    Journal Impact Factor 4.888.
- 6. "Moncelsi, Lorenzo Ade, Peter A. R. Chapin, Edward L. Cortese, Luca Devlin, Mark J. Dye, Simon Eales,

Stephen Griffin, Matthew Halpern, Mark Hargrave, Peter C. Marsden, Gaelen Mauskopf, Philip Netterfield, Calvin B. **Pascale, Enzo** Scott, Douglas Truch, Matthew D. P. Tucker, Carole Viero, Marco P. Wiebe, Donald V.

"A Panchromatic Study of BLAST Counterparts: Total Star Formation Rate, Morphology, Active Galactic Nucleus Fraction, and Stellar Mass"

The Astrophysical Journal, Volume 727, Issue 2, article 83 (2011). Journal Impact Factor 7.436.

- 7. Mattia Negrello, R. Hopwood, G. De Zotti, A. Cooray, A. Verma, J. Bock, D. T. Frayer, M. A. Gurwell, A. Omont, R. Neri, H. Dannerbauer, L. L. Leeuw, E. Barton, J. Cooke, S. Kim, E. da Cunha, G. Rodighiero, P. Cox, D. G. Bonfield, M. J. Jarvis, S. Serjeant, R. J. Ivison, S. Dye, I. Aretxaga, D. H. Hughes, E. Ibar, F. Bertoldi, I. Valtchanov, S. Eales, L. Dunne, S. P. Driver, Auld, S. Buttiglione, A. Cava, C. A. Grady, D. L. Clements, A. Dariush, J. Fritz, D. Hill, J. B. Hornbeck, L. Kelvin, G. Lagache, M. Lopez-Caniego, J. Gonzalez-Nuevo, S. Maddox, E. Pascale, M. Pohlen, E. E. Rigby, A. Robotham, C. Simpson, D. J. B. Smith, P. Temi, M. A. Thompson, B. E. Woodgate, D. G. York, J. E. Aguirre, A. Beelen, A. Blain, A. J. Baker, M. Birkinshaw, R. Blundell, C. M. Bradford, D. Burgarella, L. Danese, et al. (25 additional authors not shown)
  - "The Detection of a Population of Submillimeter-Bright, Strongly-Lensed Galaxies" Science, 330, 899, (2010). Journal Impact Factor 31.2
- 8. Devlin, Mark J., Ade Peter A. R., Aretxaga Itziar, Bock James, J. Chapin Edward, L. Griffin Matthew, Gundersen Joshua, O. Halpern Mark, Hargrave Peter, C. Hughes David, H. Klein Jeff, Marsden Gaelen, Martin Peter G., Mauskopf Philip, Moncelsi Lorenzo, Netterfield Calvin B., Ngo Henry, Olmi Luca, Pascale Enzo, Patanchon Guillaume, Rex Marie, Scott Douglas, Semisch Christopher, Thomas Nicholas, Truch Matthew D. P., Tucker Carole, Tucker Gregory S., Viero Marco P., Wiebe Donald V. "Over half of the far-infrared background light comes from galaxies at z>=1.2"
- Nature, Volume 458, Issue 7239, pp. 737-739 (2009). Journal Impact Factor 36.101.
  Pascale Enzo, Ade, Peter A. R. Bock, James J. Chapin, Edward L. Devlin, Mark J. Dye, Simon Eales, Steve A. Griffin, Matthew Gundersen, Joshua O. Halpern, Mark Hargrave, Peter C. Hughes, David H. Klein, Jeff Marsden, Gaelen Mauskopf, Philip Moncelsi, Lorenzo Ngo, Henry Netterfield, Calvin B. Olmi, Luca Patanchon, Guillaume Rex, Marie Scott, Douglas Semisch, Christopher Thomas, Nicholas Truch, Matthew D. P. Tucker, Carole Tucker, Gregory S. Viero, Marco P. Wiebe, Donald V.
  - "BLAST: A Far-Infrared Measurement of the History of Star Formation"
  - The Astrophysical Journal, Volume 707, Issue 2, pp. 1740-1749 (2009). Journal Impact Factor 7.436.
- 10. Pascale, E. Ade, P. A. R. Bock, J. J. Chapin, E. L. Chung, J. Devlin, M. J. Dicker, S. Griffin, M. Gundersen, J. O. Halpern, M. Hargrave, P. C. Hughes, D. H. Klein, J. MacTavish, C. J. Marsden, G. Martin, P. G. Martin, T. G. Mauskopf, P. Netterfield, C. B. Olmi, L. Patanchon, G. Rex, M. Scott, D. Semisch, C. Thomas, N. Truch, M. D. P. Tucker, C. Tucker, G. S. Viero, M. P. Wiebe, D. V.
  - "The Balloon-borne Large Aperture Submillimeter Telescope: BLAST"
  - The Astrophysical Journal, Volume 681, Issue 1, pp. 400-414 (2008). Journal Impact Factor 7.436.
- 11. "Netterfield, Calvin B. Ade, Peter A. R. Bock, James J. Chapin, Edward L. Devlin, Mark J. Griffin, Matthew Gundersen, Joshua O. Halpern, Mark Hargrave, Peter C. Hughes, David H. Klein, Jeff Marsden, Gaelen Martin, Peter G. Mauskopf, Phillip Olmi, Luca **Pascale, Enzo** Patanchon, Guillaume Rex, Marie Roy, Arabindo Scott, Douglas Semisch, Christopher Thomas, Nicholas Truch, Matthew D. P. Tucker, Carole Tucker, Gregory S. Viero, Marco P. Wiebe, Donald V.
  - "BLAST: The Mass Function, Lifetimes, and Properties of Intermediate Mass Cores from a 50 deg2 Submillimeter Galactic Survey in Vela (ell ~ 265°)"
  - The Astrophysical Journal, Volume 707, Issue 2, pp. 1824-1835 (2009). Journal Impact Factor 7.436.
- 12. de Bernardis, P. Ade, P. A. R. Bock, J. J. Bond, J. R. Borrill, J. Boscaleri, A. Coble, K. Crill, B. P. De Gasperis, G. Farese, P. C. Ferreira, P. G. Ganga, K. Giacometti, M. Hivon, E. Hristov, V. V. Iacoangeli, A. Jaffe, A. H. Lange, A. E. Martinis, L. Masi, S. Mason, P. V. Mauskopf, P. D. Melchiorri, A. Miglio, L. Montroy, T. Netterfield, C. B. **Pascale, E.** Piacentini, F. Pogosyan, D. Prunet, S. Rao, S. Romeo, G. Ruhl, J. E. Scaramuzzi, F. Sforna, D. Vittorio, N.
  - "A flat Universe from high-resolution maps of the cosmic microwave background radiation" Nature, Volume 404, Issue 6781, pp. 955-959 (2000)". Year: 2000. Journal Impact Factor 36.101.

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## **List of Publications**

Number of refereed publications:

118

Number of non refereed publications

s 97

H-index

44

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#### Refereed Journal Articles

"Monfardini, A., Adam, R., Adane, A., Ade, P., André, P., Beelen,
A., Belier, B., Benoit, A., Bideaud, A., Billot, N., Bourrion, O., Calvo,
M., Catalano, A., Coiffard, G., Comis, B., D'Addabbo, A., Désert, F.-X.,
Doyle, S., Goupy, J., Kramer, C., Leclercq, S., Macias-Perez, J.,
Martino, J., Mauskopf, P., Mayet, F., Pajot, F., Pascale, E., Ponthieu,
N., Revéret, V., Rodriguez, L., Savini, G., Schuster, K., Sievers, A.,
Tucker, C., Zylka, R."
"Latest NIKA Results and the NIKA-2 Project"
Journal of Low Temperature Physics 176 787 (2014)
Citations:1 Impact Factor: 1.036

- 2 "Waldmann, I. P., Pascale, E."
  "Data analysis pipeline for EChO end-to-end simulations"
  Experimental Astronomy 40 (2014)
  Citations:0 Impact Factor: 2.663
- "Poidevin, F., Ade, P. A. R., Angile, F. E., Benton, S. J., Chapin, E. L., Devlin, M. J., Fissel, L. M., Fukui, Y., Gandilo, N. N., Gundersen, J. O., Hargrave, P. C., Klein, J., Korotkov, A. L., Matthews, T. G., Moncelsi, L., Mroczkowski, T. K., Netterfield, C. B., Novak, G., Nutter, D., Olmi, L., Pascale, E., Savini, G., Scott, D., Shariff, J. A., Soler, J. D., Tachihara, K., Thomas, N. E., Truch, M. D. P., Tucker, C. E., Tucker, G. S., Ward-Thompson, D."
  "Comparison of Prestellar Core Elongations and Large-scale Molecular Cloud Structures in the Lupus I Region"
  The Astrophysical Journal 791 43 (2014)
  Citations:1 Impact Factor: 6.28
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  Bulletin of the American Astronomical Society 33 1357 (2001)
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# Sandro De Cecco - Curriculum Vitæ:

Nome : Sandro Cognome : De Cecco

Luogo e data di nascita : Roma, 6 febbraio 1975 Cittadinanze : Francese e Italiana Stato Civile : Coniugato, due figli Obblighi di leva : Assolti, servizio Civile

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### Posizione attuale:

- posizione permanente di Maitre de Conférence al "VI échelon classe normale" con 7 anni di servizio presso l'Université Paris Diderot - Paris 7; e membre junior de l'Institut Universitaire de France per 5 anni dal 1 ottobre 2014.

### Carriera accademica e titoli:

- dal 1 ottobre 2014 al 2019: vincitore concorso nazionale e nomina a Membre junior de l'Institut Universitaire de France (iuf.amue.fr): riduzione dei 2/3 del carico didattico, salario premiale (P.E.S.), e dotazione personale di ricerca per 5 anni accademici.
- fine 2014 inizio 2015, discussion prevista dell' **HDR** (Habilitation à Diriger les Recherches), titolo: "Probing the Standard Model of Electro-Weak interactions at the hadronic colliders, from precision measurements of CP violation to the Higgs boson discovery" in preparazione, da discutere entro inizio 2015.
- 2013, conseguimento dell'Abilitazione Scientifica Nazionale (ASN 2012) alle funzioni di professore di seconda fascia nel settore scientifico disciplinare 02/A1.
- Luglio 2013, titolo di A.D.T. (Authorisation à diriger une Thèse) l'Université Paris Diderot.
- Ottobre 2010, vincitore del bando nazionale di valutazione per l'attribuzione della **Prime** d'Excellence Scientifique, P.E.S. (scientific excellence grant) di durata quadriennale 2011-2014, bandito dal "Ministere de l'Enseignement Superieur et de la Recherche".
- 1 luglio 2010, Reclassement al "5ème échelon du corps des Maitres de Conférences classe normale reconstruction de carrière. Ricostruzione di carriera equivalente ad 8 anni riconosciuti validi come servizi pre-ruolo (dottorato e post-docs): avanzamento al 5 livello su 9. Attualmente al 6 livello dal 1 maggio 2013.
- 1 ottobre 2008, Titularisation (Conferma in ruolo) come "Maitre de Conférence titulaire classe normale 2ème échelon".
- 1 ottobre 2007, Prise de fonction (Presa di servizio) come "Maitre de Conférence stagiaire classe normale 1er échelon".

- Maggio 2007, vincitore del concorso a posizione di Maitre de Conférence nell'area scientifico disciplinare Section 29 constituants élementaires con profilo "Physique expérimentale des Hautes Energies", bandito dall'Università Paris Diderot Paris 7.
- Febbraio 2007, Qualification aux fonctions de Maitre de Conferences, abilitazione nazionale francese per i ruoli universitari, CNU (Conseil National des Universités), Section 29 Constituants Elementaires.
- Gennaio 2003, "Dottorato di ricerca in Fisica", Università di Roma "La Sapienza" titolo della tesi: "Measurement of relative branching fractions for D<sup>0</sup> meson Cabibbo suppressed hadronic decays, from the CDF secondary vertex trigger sample at the Tevatron collider.", Tutore: Prof. Carlo Dionisi.
- Maggio 2000, Abilitazione all'insegnamento nelle scuole secondarie superiori per la classe di concorso A038, Fisica.
- 30 aprile 1999, Laurea in Fisica Università di Roma "La Sapienza", votazione 110/110, tesi: Studio della risoluzione e del tracciamento con le camere a drift per lo spettrometro a muoni dell'esperimento ATLAS, relatore Prof. Paolo Bagnaia, correlatore Dott. Ludovico Pontecorvo;
- 1993 Diploma di maturita' scientifica, Liceo Scientifico Statale "Plinio Seniore", Roma.

## Percorso scientifico e professionale:

- dal 1 ottobre 2014 al 2019: Membre junior de l'Institut Universitaire de France (iuf.amue.fr) con conseguente riduzione dei 2/3 del carico didattico (a 64 ore/anno), salario premiale (P.E.S. di 6keuro/anno), e dotazione personale di ricerca (15keuro/anno) il tutto per 5 anni accademici rimanendo in ruolo come Maitre de Conference presso l'Université de Paris Diderot Paris 7 in ""délégation" presso l'IUF.
- dal 1 Ottobre 2007 ad oggi, servizio nel ruolo di "Maitre de Conférence", posizione permanente di "Enseignant-Chercheur" universitario presso l'Université de Paris Diderot Paris 7 e presso il Laboratoire de Physique Nucleaire et des Hautes Energies (LPNHE) dell'IN2P3/CNRS. Incarico statutario di insegnamento: 192 ore/anno di didattica frontale. Ricerca: membro della collaborazione ATLAS nel gruppo di Parigi-LPNHE e responsabile locale del gruppo della collaborazione CDF Fermilab dell' IN2P3 (fino al 2011).
- Luglio 2007, vincitore della cattedra di fisica presso l'istituto ITIS Enrico Fermi di Roma. Presa di servizio come professore di ruolo il 24 luglio 2007 e dimissioni il 1 settembre 2007.
- $\bullet$  Ottobre 2005 Settembre 2007, contratto di collaborazione ad attività di ricerca presso l'INFN sezione di Roma 1 con **Assegno di ricerca** biennale dal titolo: "Ricerca delle oscillazioni del  $B_s$  con l'esperimento CDF al Tevatron".
- Settembre 2005 Agosto 2006 rinnovo annuale dell'incarico di "Guest Scientist" presso il Fermilab National Accelerator Laboratory, Particle Physics Division, CDF experiment.
- Agosto 2004 Agosto 2005, incarico annuale come "Guest Scientist" presso il Fermilab National Accelerator Laboratory, Particle Physics Division, CDF experiment, con responsabilita' sul rivelatore a tempo di volo di CDF e sull'analisi dei canali di decadimento adronici nel gruppo di fisica del B della collaborazione.
- Ottobre 2003 Settembre 2005, contratto di collaborazione ad attivita' di ricerca presso l'INFN sezione di Roma 1 con **Assegno di ricerca** biennale dal titolo: "Analisi dei decadimenti totalmente adronicidel B e del D con l'esperimento CDF al Tevatron di Fermilab".

- da novembre 2000, membro collaborazione CDF al Tevatron di Fermilab, associato come dottorando al gruppo CDF della sezione di Roma dell'INFN.
- Novembre 1999 Ottobre 2002, borsista del Dottorato di Ricerca in Fisica (XV ciclo),
   Università di Roma "La Sapienza";
- febbraio-dicembre 1999 Servizio Civile prestato presso il museo della Galleria Borghese, Sovrintendenza ai Beni storico artistici di Roma e del Lazio.
- dicembre 1997-aprile 1999 Laureando nel gruppo Atlas di Roma 1, associazione INFN sezione di Roma. Partecipazione alla messa a punto ed alla presa dati di test beam delle camere MDT di Atlas sulla linea H8 dell'SPS.
- giugno-settembre 1998 vincitore borsa di "CERN Summer Student" a Ginevra nell'ambito della collaborazione responsabile per lo spettrometro a muoni dell'esperimento Atlas, supervisore Prof. Chris Fabian.

## Leadership scientifica e responsabilità:

- Coordinatore di progetto di ricerca quadriennale 2014-2018 " Hbb+ttH@LHC : couplages du boson de Higgs aux quarks top et bottom" vincitore del bando nazionale dell'Agence Nationale de la Recherche (ANR : agence-nationale-recherche.fr), unico progetto di fisica delle alte energie selezionato nel 2014; altri laboratori membri del progetto: CEA Saclay, CPPM Marseille, LAL Orsay.
- da dicembre 2013, rappresentante dell' LPNHE e membro del board della FRIF (Fédération de Recherche sur les Interactions Fondamentales), network of experimental and theoretical laboratories on high energy physics in the Paris region, board chair M. Cacciari.
- da giugno 2010 a sett. 2013, Directeur de Thèse (Thesis supervisor) di O. Davignon, vincitore di borsa ministeriale di dottorato, Ecole doctorale 517 "Particules, Noyaux et Cosmos" Paris 6, 7, 11 et Ecole Normale Superieure, directeurs P. Schewmling et A. Stocchi. Titolo della tesi "Search of the Standard Model Higgs boson produced in the Vector Boson Fusion process and decaying to two photons in the Altas experiment at LHC", conseguita a settembre 2013 da O. Davignon attualmente post doc all Ecole Polytechnique Paris laboratorio LLR, esperimento CMS.
- Aprile 2013, membro del comitato di organizzazione delle "Journées Collisioneur Linéaire", french workshop on ILC physics, accelerator and detector R&D, Lyon France.
- da gennaio 2012 a aprile 2013, Chair del comitato organizzatore e ideatore della conferenza nazionale: "LHC France 2013, 1st French meeting on high energy physics at the LHC", 2-6 April 2013, Annecy. Il comitato composto di 20 membri rappresentanti tutti gli esperimenti LHC cui partecipano i laboratori francesi dell'IN2P3-CNRS e IRFU-CEA. La conferenza con circa 250 partecipanti è stato il primo incontro nazionale di questa importanza nel campo. Sono stati presentati e discussi i risultati della prima fase di presa dati di LHC, con tematiche dalla fisica dell'Higgs ai quark pesanti, la fisica elettro-debole, la QCD e il quark gluon plasma e gli upgrades dei rivelatori.
- da marzo 2011, Deputy-chair del Local Organizing Committee della conferenza HCP 2011 - Hadron Collider Physics Symposium Paris, France 14-18 novembre 2011. Editor dei proceedings.
- da dicembre 2010 dic. 2012, **Chair** del comitato **Physique ATLAS France** (IN2P3/CNRS e CEA). Comitato nazionale di coordinamento delle attività di analisi e di fisica dei gruppi francesi della collaborazione ATLAS presso l'LHC del CERN. Attività di valutazione e

definizione degli obiettivi per i contributi dei gruppi francesi; stimolo per la creazione e l'organizzazione di gruppi di analisi nazionali; commissione di valutazione delle proposte di tesi a livello nazionale; organizzatore e Chairman del Workshop annuale ATLAS-France e di riunioni mensili con i responsabili del Computing per gli esperimenti LHC presso il centro di calcolo nazionale CC-IN2P3 di Lione.

- dal 2010, Responsabile gruppo CDF LPNHE Paris. Unico gruppo francese (IN2P3-CNRS) della collaborazione CDF, formato da un PhD student, due post-doc associati, un visiting scientist e una dirigente di ricerca CNRS fuori ruolo (emeritat). Attivita' scientifica su due linee principali: misura della fase del sistema di Bs neutri e ricerca del bosone di Higgs carico oltre il modello standard.
- Novembre 2009, Rapporteur Scientifique (Referee) per il Consiglio Scientifico del LPNHE per tutte le attività nel campo della fisica del Flavor (Babar, LHCb, CDF, SuperB).
- dal 2009 al 2012, co-responsabile coordinatore del nuovo Master II (laurea magistrale) "Ingénierie Physique des Energies" Master IPE coabilitato dal dipartimento di fisica dell'Universita' di Paris 7 D. Diderot e dall'INSTN-CEA (Institut National de Sciences et Techniques Nucléaires Commisariat à l'Energie Atomique) formazione di Master di secondo livello diplomante in ingegneria nel campo della produzione e gestione delle diverse forme di energia; specializzazioni in: nucleare, eolico, fotovoltaico.
- Gennaio 2005 Gennaio 2007, Conveener del gruppo di analisi di fisica "Rare B Decays and CP Violation" della collaborazione CDF a Fermilab. Nel mandato ho seguito e potato a pubblicazione molti risultati importanti di CDF nell a fisica del flavor, nell a violation della simmetria CP e nella ricerca di flavor changing neutral currents (FCNC) nei decadimenti rari, e nelle proprietà dei mesoni con beauty e charm; le principali analisi sono state : CPV nei charmless B decays  $\mathbf{B} \to \mathbf{h}\mathbf{h}'$   $(h,h'=\pi,K)$ , misura della differenza di vita media  $\Delta\Gamma_{\mathbf{s}}/\Gamma_{\mathbf{s}}$  nel  $\mathbf{B}_{\mathbf{s}} \to \mathbf{J}/\Psi \phi$  e la ricerca del decadimento FCNC  $\mathbf{B}_{\mathbf{d},\mathbf{s}} \to \mu \mu$ .
- Settembre 2004 Agosto 2006, **responsabil**e on call per il sistema di **alte tensioni** del rivelatore di tempo di volo **TOF** dell'esperimento CDF a Fermilab.

### Insegnamento:

- dal 2011 ad oggi : titolare del corso di Physique subatomique avancée (60 ore) Master
   magistère en Physique, Universit Paris Diderot Paris 7.
- dal 2011 ad oggi: titolare del corso di "Physique" (60 ore) Richiami di fisica generale, relatività ristretta e introduzione alla meccanica quantistica, per il quarto-quinto anno di corso "Master 1 & 2 LOPHISS, Logique, Philosophie et Histoire des Sciences", secondo semestre, dell'Università Paris Diderot Paris 7' e dell'Ecole Normale Supérieure.
- dal 2011 al 2013: Lezioni e laboratori di "Electromagnetisme" (60 ore), per il secondo anno di corso "Licence 2 de Physique", secondo semestre, presso l' "UFR de Physique" dell'Universita' di "Paris 7 D. Diderot".
- dal 2011 al 2013: titolare del corso di "Introduction à la Physique Subatomique: noyaux et particules" (30 ore), per il secondo anno di corso "Licence 2 de Physique", secondo semestre, presso l' "UFR de Physique" dell'Universita' di "Paris 7 D. Diderot".
- Dall'Anno Accademico 2009/10, membro del Jury du Master 1 Magistère de Physique, collegio dei docenti del Master del dipartimento di Fisica dell'Università Paris Diderot, per la fisica subatomica.

- Anno Accademico 2007/08 al 2011/12: Lezioni di "Physique Subatomique" (24 ore), sezioni d'urto dei processi subnucleari, modelli nucleari, interazioni deboli, scoperta delle particelle elementari, modello a quarks, per il quarto anno di corso "Master 1 Magistère de Physique", primo semestre, presso l' "UFR de Physique" dell'Universita' di "Paris 7 D. Diderot".
- Anno Accademico 2007/08 al 2011/12: Lezioni di "Physique Subatomique avancée" (24 ore), fisica nucleare, simmetrie discrete, violazione di CP, fisica delle interazioni elettrodeboli, per il quarto anno di corso "Master 1 Magistère de Physique", secondo semestre, presso l' "UFR de Physique" dell'Universita' di "Paris 7 D. Diderot".
- Anno Accademico 2009 al 2011/12: Master 2 "Ingenierie Physique des Energies". Organizzazione del Master e responsabilità di docente coordinatore del modulo di "Nucleaire II, cycle du combustible et conduite des reacteurs", pool di 5 insegnanti. Responsabile della specializzazione in energia nucleare.
- Anno Accademico 2007 al 2010: Lezioni di "Travaux pratiques en laboratoire de Mecanique" (96 ore) per il primo anno di corso "Licence 1 de Physique", primo semestre, presso l' "UFR de Physique" dell'Universita' di "Paris 7 D. Diderot".
- Anno Accademico 2001-02: Lezioni di supporto alla didattica e laboratorio (30 ore) per il
  corso di Esperimentazioni di fisica generale I tenute presso il Dipartimento di Fisica
  dell'Università di Roma "La Sapienza".
- Anno Accademico 2000-01: Lezioni di supporto alla didattica (30 ore) per il corso di Fisica Generale II tenute presso il Dipartimento di Chimica dell'Università di Roma "La Sapienza".

## Relatore di tesi di dottorato, Master e tutorato di stages:

- Febbraio luglio. 2014, Supervisor di Stage de Master 2, I. Kucher, Ecole Polytechnique Palaiseau "Search for Higgs boson decaying in b quarks pairs and commissioning of the Atlas FTK online tracking".
- da giugno 2010 a sett. 2013, Directeur de Thèse (Thesis supervisor) di O. Davignon, vincitore di borsa ministeriale di dottorato, Ecole doctorale 517 "Particules, Noyaux et Cosmos" Paris 6, 7, 11 et Ecole Normale Superieure, directeurs P. Schewmling et A. Stocchi. Argomento della tesi "Search of the Standard Model Higgs boson produced in the Vector Boson Fusion process and decaying to two photons in the Altas experiment at LHC".
- Aprile-giugno. 2013, Supervisor di Stage de L3 (tesi di laurea triennale) N. Lombard, Licence 3, Magistère de Physique de Paris 7, topic: "Multivariate analysis of the Higgs to di-photon inclusive sample with the Atlas experiment"
- Maggio-Luglio 2010, Supervisor di Stage di Master 2 (stage di ricerca per il quinto anno di studi) di O. Davignon, del Master NPAC (Noyaux Particules Astrophysique et Cosmologie) (P6, P7, P11, Ecole Normale) sul tema: Performances of the photon reconstruction with the first LHC data collected by the Atlas detector
- Luglio-Settembre 2009: Supervisor di CERN Summer Student di N. Meric, sul tema "Study of the gamma-Jet events for Jet energy scale calibration with the Atlas detector".
- Maggio-Luglio 2009 Supervisor di Stage de Master 1 (stage di ricerca per il quarto anno di studi) di due studenti (S. Akar e O. Davignon) del Master en physique fondamentale de l'université Pierre et Marie Curie Paris 6; sul tema Leading order generation of Vector Boson Fusion Higgs Boson production with CompHep.

- da Aprile 2008-gennaio 2009: Relatore di tesi di laurea di A. Sanchez, studente di Master, borsista programma HELEN dell'Universitad de Los Andes, Merida, Venezuela. Inquadramento del lavoro di tesi specialistica nell'ambito dell'esperimento ATLAS, gruppo di Paris-LPNHE, con tema "Reconstruction and calibration of hadronic Jets with novel Jet algorithms and preparation to early QCD measurements with the ATLAS detector at the LHC".
- Agosto-Settembre 2006: Tutore di Fermilab Summer Student sul tema "Ottimizzazione della selezione del trigger SVT dopo l'upgrade".
- Agosto-Settembre 2005: Tutore di Fermilab Summer Student sul tema "Studio di fattibilità di algoritmo di Opposite Side b-barion Flavour Tagging".

## Presentazioni a Conferenze:

- Aprile 2013, Standard Model at LHC conference SM@LHC2013 Freiburg, Germany. Talk: Higgs to di-photon channel in Atlas and CMS
- Marzo 2013, Rencontres de physique de Moriond Electro Weak, La Thuile, Italy. Talk: Heavy Flavor physics at Tevatron
- Agosto 2011 15th Lomonosov Conference on Elementary Particle Physics, Moscow State University, Moscow, Russia. Talk: B physics at Tevatron
- Ottobre 2010 First ReteQuarkonii Workshop RQW2010 Nantes, France. Talk: "Quarkonium at Tevatron"
- Luglio 2010 XXV QCD Workshop 2010 Montpellier, France. Talk: "B spectroscopy at the Tevatron"
- Giugno 2010 BEACH 2010 Perugia, Italia. Talk: "Heavy Flavor Properties at CDF".
- Marzo 2008, IFAE 2008, Incontri di fisica delle Alte Energie Bologna, Italia; talk: "Oscillazioni e Violazione di CP del  $B_s$ ";
- Luglio 2007, European Physics Society meeting EPS 07 Manchester, UK, talk: "b-jet production at the Tevatron";
- Maggio 2007, CDF collaboration meeting Jussieu, Paris, France, talk: "High P<sub>T</sub> b-tagging at CDF"
- Febbraio 2007, Workshop IV Incontro sulla fisica del B Accademia delle Scienze, Bologna, Italy; two talks: "Time dependent CP asymmetries at Tevatron" and "Rare decays at Tevatron";
- Maggio 2006, Flavour in the LHC Era, Workshop CERN, Geneve; given talk on: "Measurement of Bs Oscillations at CDF";
- Febbraio 2006, DIF06 International Workshop on Discoveries in Flavor Physics at e+e-Colliders Frascati, Italy; talk on: "Perspectives for Charm Physics at Hadron Machines";
- Giugno 2005, BEAUTY 2005, 10th International Conference on B-Physics at Hadron Machines Assisi, Italy; talk: "CDF Hot Topics";
- Aprile 2005, IFAE 2005, Incontri di fisica delle Alte Energie, Catania, Italy; talk: "Ricerca di oscillazioni del mesone Bs a CDF";

- Agosto 2004, V reconcontres de Physique du Vietnam, New views on Particle Physics, Hanoi, Vietnam; talk: "Charm Production Cross Section and Charm Physics at the Tevatron"
- Aprile 2003, IFAE 2003, Incontri di fisica delle Alte Energie, Lecce, Italy; talk: "Fisica del Charm a CDF".
- Ottobre 2002, HCP02, Hadron Collider Physics, Karlsruhe, Germany; talk: "B masses, lifetimes, prospects for B-oscillations and CP-violation at CDF including new charm results".
- Agosto 2002, XXX SLAC Summer Institute of Physics, "The secrets of the B meson", Stanford, CA, USA; "Charm Physics at CDF" presentata nella poster session.

### Seminari su invito:

- Ottobre 2010, seminario "Photon identification at LHC: first results and prospects for SM Higgs search in two photon final state" Università di Roma "La Sapienza", Dipartimento di Fisica, http://agenda.infn.it/conferenceDisplay.py?confId=2879.
- Gennaio 2010, seminario "Tagging b-Jets at collider, a tool for discoveries" invitato dal LIP e Politecnico, Lisboa Portugal.
- Aprile 2009, ciclo di seminari "The Large Hadron Collider project" in Venezuela, Universidad Central de Caracas e Universidad de Los Andes in Merida. Supporto del programma HELEN in vista della creazione in Venezuela di un gruppo di fisica delle alte energie sperimentale e suo ingresso nella collaborazione Atlas.
- da Gennaio 2008 2009, Organizzatore del ciclo di Seminari "Joint Experimental and Theoretical Meetings" su tematiche relative alla fisica di LHC, tra il "Laboratoire de Physique Nucleaire et des Hautes Energies" sperimentale ed il "Laboratoire de Physique Theorique de Paris" teorico.
- 23 Maggio 2007, CERN, Genève CH, ATLAS coll., Invited at ATLAS Standard Model meeting, talk: "CDF studies of W, Z + Heavy Flavor Jets".
- 31 Maggio 2006, CERN, Genève CH, ATLAS coll., Invited at ATLAS Trigger & Physics week, talk: "Bs mixing measurement in CDF".
- 28 Giugno 2005, CERN, Genève CH, LHC-b coll., Invited at LHC-B General Meeting, two talks: "Search for B<sub>s</sub> oscillations at CDF" and "CDF experience with the B flavour tagging algorithms".
- 7 Aprile 2005, University of Roma "Tre", seminar: "Ricerca delle oscillazioni di Flavour del mesone B<sub>s</sub> con l'esperimento CDF"
- 4 Aprile 2005, University of Roma "La Sapienza", seminar: "Ricerca delle oscillazioni di Flavour del mesone B<sub>s</sub> con l'esperimento CDF".
- 11 Giugno 2004, University of Roma "La Sapienza", seminar: "Physics of the neutral B<sub>s</sub>
  mesons at CDF, recent results and perspectives".

### Outreach:

- 29 sett. 2014, conferenza "Le LHC et le boson de Higgs" presso il Comité d'entreprise della sede centrale di THALES GROUP, Elancour France.
- 4 Oct. 2013, Outreach conference "La découverte du boson de Higgs" in the "Festival des deux Infinis", Association Française d'Astronomie, Paris France.
- 13 Jun. 2013, Intervista nel giornale svizzero "Le Temps" de Genève: "ILC l'accélerateur de particules du Futur", co-intervistato con Lynn Evans.
- Aprile 2013, organizzatore della mostra "Le tunnel LHC interactif" presso l' "Espace d'expositions - La Turbine", 28 Mar. - 8 Apr. 2013, Annecy, France.
- Settembre 2012, conferenza dal titolo "Boson de Higgs, fin de la traque?" al Muse des arts et mtiers (CNAM) Paris, France.
- giugno 2012, membro del jury del "Prix de La Recherche 2012" per la fisica delle alte energie e la cosmologia. Premio nazionale annuale organizzato dalla redazione del mensile "La Recherche" per a premiare i migliori team di ricerca per tutte le discipline scientifiche.
- Collaborazione con il mensile "La Recherche", pubblicazione di un articolo e dossier dal titolo "Ou se cache le boson de Higgs" per il numero di luglio 2012.
- 2007-2010, membro del comitato di organizzazione "Fête de la Science" Laboratoire des deux Infinis- LPNHE. Campus de Jussieu, Universié Pierre et Marie Curie, editions novembre 2008 et 2009.
- Aprile-Giugno 1997, incarico per l'assistenza tecnico-scientifica e per le visite guidate alla manifestazione organizzata dal Comune di Roma e dall'INFN "Quark 2000 - La fisica fondamentale italiana e le sfide del nuovo millennio" - Palazzo delle esposizioni di Roma.

### Pubblicazioni:

Sintesi delle pubblicazioni di cui sono autore:

- 643 articoli su rivista con comitato di lettura: risultati di fisica delle collaborazioni CDF e Atlas.
- 44 note interne della collaboration CDF: fisica del charm, Bs mixing, decadimenti rare, b-tagging, Z+jets, time-of-flight.
- 20 note interne della collaborazione Atlas: camere MDT dello spettrometro a muoni, trigger di fotoni, ricerca dell'Higgs in due fotoni.
- una decina di atti di conferenze.
- Indici bibliometrici al 30 settembre 2014 :

Età accademica: 13 anni

Numero totale di pubblicazioni: 643 (ISI Web of Science)

Fattore H: 56 (ISI Web of Science)

Numero totale di citazioni : 16898 (ISI Web of Science)

#### Pubblicazioni con significativo apporto personale:

- -1. "Measurement of prompt charm meson production cross sections in p(p) over-bar collisions at root s=1.96 TeV. Physical Review Letters 91, (Dec, 2003).
- 2. "A Time-of-Flight detector in CDF-II. Nuclear Instruments & Methods in Physics Research Section a-Accelerators Spectrometers Detectors and Associated Equipment 518, 605 (Feb, 2004).
- 3. "Observation of the narrow state X(3872) -> J/psi pi(+)pi(-) in (p)over-barp collisions at root s=1.96 TeV. Physical Review Letters 93, (Aug, 2004).
- 4. "Evidence for B(s)(0)->phi phi decay and measurements of branching ratio and A(CP) for B(+)->phi K(+). Physical Review Letters 95, (Jul, 2005).
- 5. "Measurement of partial widths and search for direct CP violation in D(0) meson decays to K(-)K(+) and pi(-)pi(+). Physical Review Letters 94, (Apr, 2005).
- 6. "Measurement of the J/psi meson and b-hadron production cross sections in p(p)over-bar collisions at root s=1960 GeV. Physical Review D 71, (Feb, 2005).
- 7. "Measurement of bottom-quark hadron masses in exclusive J/psi decays with the CDF detector. Physical Review Letters 96, (May, 2006).
  - 8. "Observation of B(s)(0)B(s)(0) oscillations. Physical Review Letters 97, (Dec, 2006).
- 9. "Search for a neutral Higgs boson decaying to a W boson pair in p(p)over-bar collisions at root s=1.96 TeV. Physical Review Letters 97, (Aug, 2006).
- 10. "Measurements of inclusive W and Z cross sections in p(p)over-bar collisions at root s=1.96 TeV. Journal of Physics G-Nuclear and Particle Physics 34, 2457 (Dec, 2007).
- 11. "First flavor-tagged determination of bounds on mixing-induced CP violation in B(s)(0)-> J/psi phi decays. Physical Review Letters 100, (Apr, 2008).
- 12. "Search for B(s)(0)>mu(+)mu(-) and B(0)>mu(+)mu(-) Decays with 2 fb(-1) of p(p) overbar Collisions. Physical Review Letters 100, (Mar, 2008).
- 13. "Evidence for a Narrow Near-Threshold Structure in the J/psi phi Mass Spectrum in B(+) -> J/psi phi K(+) Decays. Physical Review Letters 102, (Jun, 2009).
- 14. "Charged-particle multiplicities in pp interactions at root s=900 GeV measured with the ATLAS detector at the LHC ATLAS Collaboration. Physics Letters B 688, 21 (Apr., 2010).
- 15. "Combination of Tevatron Searches for the Standard Model Higgs Boson in the W(+)W(-) Decay Mode. Physical Review Letters 104, (Feb, 2010).
- 16. "Performance of the ATLAS detector using first collision data. Journal of High Energy Physics, (Sep, 2010).
- 17. "Measurement of the inclusive isolated prompt photon cross-section in pp collisions at root s=7 TeV using 35 pb(-1) of ATLAS data. Physics Letters B 706, 150 (Dec, 2011).
- 18. "Search for the Standard Model Higgs boson in the two photon decay channel with the ATLAS detector at the LHC. Physics Letters B 705, 452 (Nov, 2011).
- 19. "Measurement of the isolated di-photon cross section in pp collisions at root s=7 TeV with the ATLAS detector. Physical Review D 85, (Jan, 2012).
- 20. "Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC". Phys. Letters B, 716 (Sep, 2012).
- 21. "Measurements of Higgs boson production and couplings in diboson final states with the ATLAS detector at the LHC". Phys. Letters B, 726 (7 Oct, 2013).

## Principali risultati ottenuti:

La mia attività scientifica si sviluppa nell'ambito della fisica sperimentale delle alte energie. Negli ultimi anni si è focalizzata sulla fisica del bosone di Higgs nellesperimento Atlas a LHC. Ho contribuito alla sua scoperta ed allo studio delle sue proprietà attraverso il canale di decadimento in due fotoni ed in particolare ho condotto lo studio della sua produzione attraverso il processo di fusione di bosoni vettori. Ho contribuito allo studio delle performances di ricostruzione e trigger dei fotoni in Atlas ed alle operazioni del rivelatore come Atlas shift leader nel run1 di LHC. Attualmente preparo la ricerca del decadimento dell'Higgs in coppie di quarks b, e dello studio dell'accoppiamento di Yukawa al top per il run2 di LHC. Precedentemente (1999-2011), come membro della collaborazione CDF al Tevatron di Fermilab, mi sono occupato di fisica del flavor e violazione della simmetria CP ricoprendo il ruolo di conveener di B decays e CP violation. Il dettaglio dei principali risultati e attivit in ordine cronologico:

- Detector R&D and test beams of gaseous drift chambers (1998-99): SPS test beams and calibration algorithm for muon drift tubes of Atlas (Laurea), non linear Argon-CO2 mixture successfully tested.
- Charm physics and CP violation at CDF (2000-2003): initiating charm physics program
  with the Silicon Vertex Trigger data in CDF collaboration (2000-03, PhD thesis), CPV in
  charm sector and charm cross section.
- B physics: rare B decays, Bs flavor mixing, direct CP violation, search for FCNC decays at CDF. (2003-2007).
- $\bullet$  Hadronic Bs decays : new mode discovered  $(B_s \to \Phi\Phi)$  in 2004 and many rare decays analysis.
- CP Violation convener for CDF collaboration (2004-06)
- $\bullet$  Bs mixing oscillation frequency precise measurement and observation in 2006
- b-jet tagging advanced techniques for Z+bjets and H to bbar at CDF (2006-2007): development of novel Neural Network continuous b-tagging at CDF.
- Photon reconstruction and trigger in the Atlas experiment at LHC: LAr ECAL (2008-2011), photon trigger performances data driven methods in Atlas and first prompt photon LHC results (2011).
- $\bullet$  Higgs boson physics, Higgs search into di-photon decay channel : strong contribution to evidence (2011) and discovery (2012)
- Higgs production modes and couplings: evidence for Vector Boson Fusion Higgs production (Moriond 2013).
- Search for the Higgs boson decaying to b quark pairs in Atlas. (2014)

Parigi, 1 ottobre 2014

Sandro De Cecco

#### GRAZIA PORTOGHESI TUZI

#### TITOLI DI STUDIO

7 aprile 1988 Laurea in Lettere, presso l'Università "La Sapienza" con una tesi dal titolo *Schedatura e sistemazione critica dei canti popolari di nozze italiani*, - relatore Diego Carpitella - correlatore Alberto Mario Cirese- voto:110 e lode.

25 giugno 1999 ha conseguito il titolo di Dottore di Ricerca in "Scienze Etnoantropologiche, presso l'Università di Roma "La Sapienza" sotto la direzione di Pietro Clemente. Titolo della tesi: *Gli alberi dei canti. Musica tradizionale femminile in Cantabria*.

27 novembre 2007 Omologazione titolo di Laurea: Licenciada en Antropologia Social y Cultural, Universidad Complutense de Madrid. Titolo riconosciuto dal Ministerio de Educación y Ciencia, Spagna.

02 giugno 2009 Omologazione titolo Dottorato: Doctorado homologado al titulo universitario oficial español de Doctora por la Universidad de Valladolid con los mismos efectos en todo el territorio nacional.

#### **ABILITAZIONI**

Abilitazione Ayudante Doctor, ACSUCYL, Comunidad Castilla y Leon, 2010.

Abilitazione Prof. Contratado Doctor, ACSUCYL, Expediente C1112073387CD, Comunidad Castilla y Leon, 2012

Abilitazione Professore II Fascia, D.D. n.222 del 20-07-2012 (G.U. n.58 del 27-07-2012)

#### BORSE DI STUDIO

1992-1993 Grant FULBRIGHT Program for Visiting Scholar. Department of Ethnomusicology,

UCLA, University of California Los Angeles (2 gennaio 1992-30 marzo 1993).

1995 Borsa di Studio ERASMUS per un semestre europeo per *Post-graduated in Antrhopology* che si è tenuto presso la FREIE Universitat di Berlino (aprile-luglio 1995).

1997 Borsa della Fundacion Botin di Santander per la realizzazione del progetto "Pandereteras de Cantabria: retratos audiovisuales".

#### BORSE DI RICERCA POST DOTTORALI

16/07/2001-16/10/2001 Assegno di ricerca (Ayudas Investigador Extranjero) Universidad de Valladolid

01/04/2000-31/06/2003 Contratto di ricerca della Discoteca di Stato del Ministero per i Beni e le Attività Culturali.

01/09/2003-01/09/2005 Titolare di un Assegno di Ricerca in Etnomusicologia (settore L-ART/08) presso il Dipartimento di Archeologia e Storia delle Arti. Investigación sobre "Musica e identità tra le comunità calabresi in Argentina".

28/08/06-15/12/2006 Assegno di ricerca (Ayudas Investigador Extranjero) Universidad de Valladolid

#### ATTIVITA' DOCENTE

### Universidad de Valladolid, Spagna

2003/2004

Doctorado "Música Española" (con Mención de Calidad-Ref.MCD 2003-00263)

#### 2004/2005

Corsi impartiti: Etnomusicología: Historia y Método; Música e Identid, Corso di laurea in Historia y Ciencias de la Música e Doctorado "Música Española" (con Mención de Calidad-Ref.MCD 2003-00263)

#### 2005/2006

Corsi impartiti per Laurea in Historia y Ciencias de la Música: Etnomusicología: Análisis Musical y comentarios de textos

Doctorado: "Música Española" (con Mención de Calidad-Ref.MCD 2003-00263)

#### 2006/2007

Corsi impartiti per Laurea in Historia y Ciencias de la Música: Metodología de la investigación; Musical; Culturas musicales e identidades; Tendencias de la Etnomusicología; Etnomusicología: Análisis Musical y Comentarios de textos.

Master Interuniversitario en Música Hispana (con Mención de Calidad MEC); Doctorado "Música Española" (con Mención de Calidad-Ref.MCD 2006)

#### 2007/2008

Corsi impartiti per Laurea in Historia y Ciencias de la Música: Metodología de la investigación; Musical; Culturas musicales e identidades; Tendencias de la Etnomusicología;

Master Interuniversitario en Música Hispana (con Mención de Calidad MEC)

#### 2008/2009

Corsi impartiti per **Laurea** in Historia y Ciencias de la Música: Metodología de la investigación; Musical; Culturas musicales e identidades; Tendencias de la Etnomusicología; Etnomusicología: Análisis Musical y Comentarios de textos.

Master Interuniversitario en Música Hispana (con Mención de Calidad MEC); Doctorado "Música Española" (con Mención de Calidad-Ref.MCD 2006)

#### 2009/2010

Corsi impartiti per **Laurea** in Historia y Ciencias de la Música: Etnomusicología: Historia y método; Metodología de la investigación; Musical; Culturas musicales e identidades; Tendencias de la Etnomusicología;

Master Interuniversitario en Música Hispana (con Mención de Calidad MEC);

#### 2011/2012

Corsi impartiti nel **Grado** en Musica Hispana: Historia y teoría de la Etnomusicología; Tradiciones musicales del mundo; **Master Interuniversitario** en Música Hispana (con Mención de Calidad MEC): Metodología de la investigación; Culturas musicales e identidades; Tendencias de la Etnomusicología; Musicas tradicionales de Espana e Hispanoamerica; Master de secundaria: Teoria de la musica y practicas de tradicion oral.

#### 2012/2013

Corsi impartiti nel **Grado** en Musica Hispana: Historia y teoría de la Etnomusicología; Aplicaciones de la Etnomusicologia, Materiales Escritos y Audiovisuales de la Etnomusicologia.

Master Interuniversitario en Música Hispana (con Mención de Calidad MEC): Metodología de la investigación; Culturas musicales e identidades.

#### 2013/2014

Corsi impartiti nel **Grado** en Musica Hispana: Historia y teoría de la Etnomusicología; Aplicaciones de la Etnomusicología

Master Interuniversitario en Música Hispana (con Mención de Calidad MEC): Metodología de la investigación; Culturas musicales e identidades.

ERASMUS Staff Mobility - Teaching Assignments by HEI Teaching Staff and by Invited Staff

from Enterprises

Subject Area: Music and performing arts

Planned dates of mobility: 06/05/2014 - 15/05/2014 Host organisation

Name: CONSERVATORIO DI MUSICA 'L.PEROSI'

Erasmus Code: I CAMPOBA03

#### Università della Calabria, UNICAL

2003/2004 Professore a contratto di Etnomusicologia presso il Corso di Laurea in Storia e Conservazione del Patrimonio Artistico, Archeologico e Musicale.

**2004/2005** Professore a contratto di Etnomusicologia presso il DAMS dell'Università della Calabria (UNICAL)

2005/2006 Professore a contratto di Etnomusicologia presso il DAMS dell'Università della Calabria (UNICAL)

2006/2007 Professore a contratto di Etnomusicologia presso il DAMS dell'Università della Calabria (UNICAL)

2007/2008 Professore a contratto di Etnomusicologia presso il DAMS dell'Università della Calabria (UNICAL)

2008/2009 Professore a contratto di Etnomusicologia presso il DAMS dell'Università della Calabria (UNICAL)

## ATTIVITÀ DI RICERCA

## Area della ricerca:Italia

1987 Ricerca sul campo svolta nel Lazio sui canti tradizionali di nozze per la tesi di laurea. Ricerca svolta sotto la direzione di Diego Carpitella

2013/2016 Musica, festa, rito. Dinamiche di trasmissione e trasformazione di forme e comportamenti musicali in contesti di socializzazione e di rapport con il sacro.

Research Project of National Interest (PRIN - Progetto di Ricerca di Interesse Nazionale) 2010ME4HFS. Financing Institution: Ministero dell'Istruzione, dell'Università e della Ricerca. Reference: E81J1200062000-1. Main researcher: Giorgio Adamo, Università Tor Vergata, Roma.

## Area della ricerca: Spagna

- 1) 1997/01/15–1997/12/15 **Pandereteras de Cantabria: retratos audiovisuales. Entidad concesora**: Fundación Marcelino Botin. Universidad de Valladolid. **I.P.** Grazia Tuzi. Subvención: 3.500 €.
- 2) 2000/04/15-2002/10/15 Danzas de Picayos en Cantabria

Centro: Facultad de Filosofía y Letras, Universidad de Valladolid

Istituzione finanziatrice: Fundación Marcelino Botín

dal:15/04/2000 al: 15/10/2002 Direttore della ricerca: Grazia Tuzi

- 3) 2000/01/01 2002/12/31. Documentación Musical en Cantabria. Creación, Dirección y Coordinación del Centro de Documentación Musical de Cantabria y Líneas de Investigación. Instituciones concesoras: Fundación Marcelino Botín Sanz de Sautuola. IP: María Antonia Virgili Blanquet. Grazia Tuzi, Danzas de picayos en Cantabria. Subvención: 54.091'09€. Referencia: Artículo 83 Investigación.
- 4) 2000/12/20 2003/12/19. Estudio de la Música tradicional de Extremadura a través de sus protagonistas. Entidad concesora: Ministerio de Educación y Ciencia (Programa Nacional de

- Investigación BSO). I.P: Enrique Cámara de Landa. Equipo UVa: Mercedes Cano, Susana Moreno, Grazia Tuzi. Otras universidades colaboradoras: Universidad Complutense de Madrid. Subvención: 1.020€. Referencia: BSO2000-0957-C02-01.
- 5) 2001/02/15 2003/12/31. Recopilación, análisis y estudio del patrimonio musical de tradición oral de la provincia de Soria. Entidad concesora: Junta de Castilla y León, Consejería de Educación. IP: Enrique Cámara de Landa. Equipo UVa: Jesús Martín Galán, Susana Moreno Fernández, Grazia Tuzi. Subvención: 4.994€. Referencia: VA073/01.
- 6) 2005/06/16 2007/12/31. Protagonistas de la tradición musical en Soria. Entidad concesora: Junta de Castilla y León, Consejería de Educación. Entidades participantes: Universidad de Valladolid (ejecutora) y Universidad Complutense de Madrid (colaboradora). IP: Enrique Cámara de Landa. Equipo UVa: Agueda Pedrero Encabo, Jesús Martín Galán, Mercedes Cano, Susana Moreno, Iván Iglesias Iglesias, Grazia Tuzi. Subvención: 5.400€. Referencia: VA068A05.
- 7) 2005/12/31 2008/10/14. El pensamiento musical en la cultura española. De la generación del 98 a la generación del 27. Entidad concesora: MEC. Entidades participantes: Universidad de Valladolid. Otras universidades colaboradoras: Universidad de Oporto; Universidad Complutense de Madrid; Universidad de Navarra. IP: Maria Antonia Virgili Blanquet Equipo UVa: María Victoria Cavia Naya, Carlos Villar Taboada, Jon Peruarena Arregui, Sixto Castro Rodríguez, Grazia Tuzi. Subvención: 26.180,00 €. Referencia: HUM2005-08259-C02-1.
- 8) 2006/09/29 2007/09/30. Investigación Musicologica. Programa Movilidad de profesores visitantes y estudiantes en Doctorado con mención de calidad. Entidad concesora: MEC Secretaría de Estado de Universidades e Investigación. Entidades participantes: Universidad de Valladolid. IP: Maria Soterraña Aguirre Rincon Subvención: 7.800,00 €. Referencia: DCT2006-00458-P.
- 9) 2007/10/01 2008/09/30. Investigación Musicologica. Programa Movilidad de profesores visitantes y estudiantes en Doctorado con mención de calidad. Entidad concesora: MEC Secretaría de Estado de Universidades e Investigación. Entidades participantes: Universidad de Valladolid. IP: Maria Antonia Virgili Blanquet Subvención: 30.768,48 €. Referencia: MAS2007-00297.P.
- 10) 2008/10/01 2009/09/30. Investigación Musicologica. Programa Movilidad de profesores visitantes y estudiantes en Doctorado con mención de calidad. Entidad concesora: MEC Secretaría de Estado de Universidades e Investigación. Entidades participantes: Universidad de Valladolid. IP: Maria Antonia Virgili Blanquet Subvención: 41.843,85 €. Referencia: MAS2008-00329.P.
- 11) 2008/10/01 2009/09/30. Investigación Musicologica. Programa Movilidad de profesores visitantes y estudiantes en Doctorado con mención de calidad. Entidad concesora: MEC Secretaría de Estado de Universidades e Investigación. Entidades participantes: Universidad de Valladolid. IP: Maria Antonia Virgili Blanquet Subvención: 15.144,00 €. Referencia: DCT2008-00179.P.
- 12) 2010/01/01 2011/12/31. El celtismo y sus repercusiones en música en Galicia y el norte de Portugal. Istituzione finanziatrice: Ministerio de Ciencia e Innovación (Gobierno de España) / CRUP (Gobierno de Portugal). IP: Enrique Cámara de Landa (Universidad de Valladolid) / Salwa El-Shawan Castelo-Branco (Universidade Nova de Lisboa). Equipo UVA: Susana Moreno Fernández, Grazia Portoghesi Tuzi, Iván Iglesias Iglesias. Altri membri del equipe: Eduardo

Contreras Rodríguez, Jorge Costa de Freitas Branco, Paula Cristina Antunes Godinho, Luis Costa Vázquez-Mariño. **Subvención**: 10.000€ (Acción Integrada. Grupo portugués: 2000 euros; grupo español: 8000 euros). **Referencia**: PT2009-0171.

## Area della ricerca: Messico

- 1) 1999/07/01 1999/08/31 Musiche e danze tradizionali dei Nahua della Sierra Norte de Puebla, Messico. Equipe di ricerca della Missione Etnologica Messico. Istituzione finanziatrice: Ministero de Asuntos Exteriores (Italia), Università La Sapienza di Roma. I.P. Prof. Alessandro Lupo.
  - 2) 2002/08/01 2002/08/31 Musiche e danze tradizionali dei Nahua della Sierra Norte de Puebla, Messico. Equipo de investigación de Missione Etnologica Messico. Istituzione finanziatrice: Ministero de Asuntos Exteriores (Italia), Università La Sapienza di Roma. I.P. Prof. Alessandro Lupo.

## Area della ricerca: Italia e Argentina

Titolo del progetto: Musica e identità in Calabria e nelle comunità calabresi in Italia e all'estero, con particolare riguardo all'emigrazione arventina

Centro: Dipartimento di Archeologia e Storia dell'Arte-Etnomusicologia

Istituzione finanziatrice: Universidad de la Calabria Durata della ricerca: 01/09/2003 al 01/09/ 2005

Direttore della ricerca: Giorgio Adamo

Luoghi della

Luoghi della ricerca: Calabria, Piemonte, Provincia di Buenos Aires.

## Area della Ricerca: Nord Africa, Marocco

Titolo del progetto DRUM, Disguise Ritual Music

Istituzione Finanziatrice: Marie Curie Actions- International Staff Exchange Scheme

Grant number: PIRSES-GA-2012-318942

Università partecipanti: Università di Bologna, Università Federico II di Napoili, Universidad de Valladolid, Universitè Moulay Ismail-Marocco, Université Mohammed V Soussi, Marocco.

Durata della ricerca: 02/02/2013 al 02/02/2017

Direttore della ricerca: Domenico Staiti, Università di Bologna.

## Altri progetti internazionali:

1) Titolo del Progetto: *EMAP: European Music Archaeology Proyect*. European Community International Project.

Istituzioni partecipanti: Comune di Tarquinia, IT (Coordinator) Deutsches Archäologisches Institut, DE Musik i Syd AB Skåne Kronoberg, SE Österreichische Akademie der Wissenschaften, AT Regione Lazio, IT Royal Conservatoire of Scotland, UK The Cyprus Institute, CY Universidad de Valladolid, ES Università degli Studi della Tuscia, IT University of Huddersfield, UK(Coorganizers). Financing Institution: U.E. Culture Programme (2007-2013) Multiannual cooperations projects.

Reference:536370-CU-1-2013-1-IT-CULTURE-VOL11. Total grant:1.991.899 €

Durata della ricerca: 06/01/2013-06/01/2018

2 Titolo del progetto: Our heritage our future promoting the teaching of musical heritage as a vector of social change.

International Project. Main researcher: Jon Peruarena Arregui. Coordinadors: María Antonia Virgilio Blanquet, Miriam Escudero Suástegui. Researchers in Universidad de Valladolid: Jon Peruarena Arregui, Mikel Díaz-Emparanza Almoguera, Victoria Cavia Naya, Carlos Villar Taboada, Grazia Tuzi, Enrique Cámara de Landa. Participating Institutions: Oikos-Cooperação e Desenvolvimento (Portugal). Sociedad Civil Patrimonio, Comunidad y Medioambiente (Cuba); Universidad de Valladolid (Spain). Associates: Luthiers sans Frontières (Belgium); Baltisches Orgel Centrum (Germany); Hochschule für katholische Kirchenmusik & Musikpädagogik Regensburg (Germany); Red de Oficinas del Historiador y del Conservador de las Ciudades Patrimoniales de Cuba (Cuba). Financing Institution: U.E. Culture Programme (2007-2013) Multiannual Cooperation Projects- European Union- EuropeAid Programm. Reference:536370-CU-1-2013-1-IT-CULTURE-VOL11. Total grant:353.000 €. Reference: EuropeAid/134-126/L/ACT/CU

Durata della ricerca: 12/12/2012-12/12/2016

## PARTECIPAZIONE PROGETTI D'INNOVAZIONE DOCENTE

1) Titolo del progetto: MULTI.Co.M. Multimedia Collection Manager

Istituzione finanziatrice: Conserzio BAICR Sistema Cultura (Project Manager) y OPIB (Osservatorio dei Programmi Internazionali per le Biblioteche) Referencia: 1/06/B/F/PP-154013

Durata del progetto: 2006/10/01 - 2008/09/30 Direttore del progetto: Cámara de Landa Enrique

2) Titolo del progetto: Estrategias de innovación docente y TICs en Historia y Ciencias de la Música (GID 2009/53)

Ente finanziatrice: Universidad de Valladolid

Durata del progetto: curso académico 2009/10/01 - 2010/09/30

Direttori del progetto: Carlos José Villar Taboada y Miguel Díaz-Emparanza Almoguera

3) Titolo del progetto: Estrategias de innovación docente y calidad en Historia y Ciencias de la Música: Virtualización e interdisciplinariedad (I.- Curso 2011/12) (GID UVa- PID 2010-11 N27)

Istituzione finanziatrice: Universidad de Valladolid, Vicerrectorado de Docencia

Durata del progetto: 2010/10/01 - 2011/12/31

Direttori del progetto: Carlos José Villar Taboada y Juan Peruarena Arregui

### **PUBBLICAZIONI**

"Il concetto antropologico di cultura" in L'origine dell'uomo. Problemi di attualità N°7, Francesco Fedele e Ambrogio G:Manno (a cura di), Napoli, Edizioni Dehoniane, 166-174.

1991a Tradizioni vocali del Lazio (in collaborazione con G.Adamo), Roma, Regione Lazio, IRTEM, in collaborazione con la Discoteca di Stato, CD 991\3.

1991b "La polivocalità contadina" in Tradizioni vocali del Lazio (in collaborazione con G.Adamo), Roma, Regione Lazio, IRTEM, in collaborazione con la Discoteca di Stato, (testo in libretto CD 991\3.

1995 "Il simbolo oggi - Relazione da un Convegno di Studio" (in collaborazione con A. Broccolini), Ossimori 6:98-100 (recensione).

1995 "Egisto Macchi"- Musicisti del Novecento attivi a Roma. Compact Disc, con libretto allegato, Istituto di Ricerca per il Teatro Musicale, Roma. (in collaborazione con Fausto Sebastiani)

1999 Gli alberi dei canti. Musica tradizionale femminile in Cantabria. Tesi di Dottorato. (con video allegato)

2000 "Beni Musicali" - Appendice dell'Enciclopedia Italiana Treccani. (in collaborazione con Lalla Cavagnis Sotgiu, Direttrice della Discoteca di Stato).

2003 "La canzone Romana come rappresentazione della 'romanità". In Adamo, Giorgio *Il canto popolare nel Lazio*, Regione Lazio, Centro Europeo Toscolano, Roma, Editore Squilibri, pp.133-177.

2003 Canti popolari di nozze in Italia (con Cd allegato, con catalogo ed esempi musicali), Editrice Finisterre, Formia (LT).

2006 "La pandereta como símbolo de la cultura musical Cántabra" In *Primeras Jornadas de la Música Tradicional Cántabra*, Parlamento de Cantabria y RNE, Santander, 2006, pp.74-87.

2006 "Procesos de cambio en el estilo de la Jota en Cantabria". In Actas de la III Jornadas Nacionales Cultura tradiciónal en España. Proyectos de investigación en fase de realización y resultados recientes. CIOFF-España, 29-43.

2007 "La danza como oración: las expresiones coréutico-musicales de los Nahua de la Sierra Norte de Puebla". In *Arte, música y sacralidad*, Maria Antonia Virgili (coord) Colección Música y Pensamiento, Valladolid, Glares, 289-301.

2008 "La comunità autonoma di Cantabria: Patrimonio immateriale e Istituzioni culturali". In LARES. Rivista quadrimestrale di Studio demoetnoantropologici, Anno LXXIV, n.3, pp.579-591. 2008 "Música y migraciones: las comunidades calabresas y la tarantella como emblema de identidad". En Música, ciudades, redes: creación musical e interacción social. Actas del X Congreso de la SIBE-Sociedad de Etnomusicología; V Congreso IASPM-España; II Congreso de músicas populares del mundo hispano y lusófono. (R. Gómez Muns y R. Lopez Cano, eds), Salamanca: SIBE-Obra Social Caja Duero, pp.1-20, ISBN 13:978-84-612-7141-2.

2008 "Scheda disco-Scheda video". In *La terra del rimorso* (E. de Martino), Milano: Il Saggiatore, pp.445-455, 2008. ISBN 10: 8842803537.

2009 "Cuando se tocaba era la única forma de expresar cosas: la música como forma de comunicación". ETNO-FOLK. Revista de Etnomusicología 14-15: 314-327. ISSN: 1698-4064.

2010 Telemaco Portoghesi Tuzi – Grazia Tuzi, Quando si faceva la Costituzione. Storia e personaggi Della Comunità del porcellino, páginas 9-342, Il Saggiatore, Milano, ISBN 978-

884281652-2.

2010 "Oltre la musica: il caso degli aborigeni australiani. Un esempio di applicazione del sapere etnomusicologico" *HAOL (Historia Actual Online)* 23: 106-117. ISSN: 1696-2060.

2010 "La pandereta es de las mujeres: strumenti musicali ed identità di genere".: TRANS. Revista Transcultural de Música 14. SIBE-Sociedad de Etnomusicología. Publicación electrónica: www.sibetrans.com. ISSN: 1697-0101.

2010 "La jota in Cantabria: dalla piazza al palcoscenico". In: *La disciplina coreologica in Europa. Problemi e prospettive* (Cecilia Nocilli e Alessandro Portelli eds.). Roma: ARACNE editrice, pp. 295-312, ISBN: 978-88-548-3473-6.

2011 Telemaco Portoghesi Tuzi – Grazia Tuzi, *Quando si faceva la Costituzione. Storia e personaggi Della Comunità del porcellino*, páginas 9-342, Il Saggiatore, Milano, Ebook, ISBN 9788865760741.

2012 "Liberare la parola per liberare il pensiero", in *Dio non uccide. Vita del Premio Nobel Adolfo Perez Esquivel*, Il Margine, Trento, pp.157-166. ISBN 978-88-6089-109-9.

2012 "L'etnomusicologia italiana a sessanta anni dalla nascita del CNSMP (1948-2008)", Atti del Convegno (Roma, 13-15 Novembre 2008), a cura di Francesco Giannattasio e Giorgio Adamo, Roma, Accademia Nazionale di Santa Cecilia, pp.61-81.. ISBN è 978-88-95341-48-4.

2012 "La Tarantella: Affirming The Calabrian Identity Through Dance". In: Nils Grosch, Rolf Kailuweit (ed.): *Italian Migration and Urban Music Culture in South America* (Populäre Kultur und Musik, Bd. 8). Münster: Waxmann. ISBN 978-3-8309-2846-1.

2012 La pandereta. Suoni e identità della Cantabria (libro con Dvd), Nota, Valter Colle, Udine, GEOS DVD Book 492, paginas 348, ISBN 9788861631090.

2013 "Superponer sonidos, superponer culturas. La construcción de una identidad nahua mediante la música y la danza" *Cuadernos de Música Iberoamericana*, 25-26, Instituto Complutense de Ciencias Musicales, Madrid, pp.367-385. ISSN: 1136-5536

2013 "The Voladores Dance: Traces of the Past for the Interpretation of the Present". In *Flower World. Music of the Americas. Mundo Florido. Arqueomusicologia de las Américas*, vol. 2 Edited by Matthias Stöckli & Arnd Adje Both, Ekho Verlag, Berlin, pp.159-176. ISBN 9 783944415147

#### PUBBLICAZIONI MULTIMEDIALI

- 2001 Phonomedia traditio- sito web sulle musiche e danze tradizionali europee.
 Progetto Europeo-programma Raffaello, realizzato dalla Discoteca di Stato (Italia), Metive (Francia), Museo Can Quintana, Torroella (Spagna)
 Il sito web si può consultare nella pagina: www.phonomedia.org

- 2002 Mostra on line Verso Sud, (in collaborazione con Luciano Blasco) Discoteca di Stato, Roma

Sito web: www.discotecadistato/mostrevirtuali

- 2003 Mostra on line: Passione Argentina. Tanghi Italiani degli anni '30. (in collaborazione con Enrique Camara de Landa), Discoteca di Stato, Roma.
- 2003 **Musica tradizionale a Leonessa** (Schede scientifico-didattiche per il Museo sull'espressività popolare di Leonessa)
- -2006 *Musica y Arte Escenicas de la India:Sitar*. DVD, Camara de Landa, Enrique-Grazia Tuzi (a cura di) Universidad de Valladolid, Casa de la India, Ayuntamiento de Valladolid, 2006. ISBN: 84-689-9758-7.

2009 Mostra on line: Tra ragione e passione. Ernesto de Martino e la Spedizione etnologica in

Lucania. (in colaborazione con Rudi Assuntino), Discoteca di Stato, Roma

Sito web: www.discotecadistato/mostrevirtuali

## PARTECIPAZIONE COME RELATORE A CONVEGNI E SEMINARI

- 5-19 Aprile 1989 "Per una guida all'ascolto della musica di tradizione orale", due conferenze sulla musica di tradizione orale in Africa, Europa e Italia, tenute presso la sala conferenze dell'IRTEM.
- 19 Luglio 1989 "La classificazione dei canti di nozze", seminario di Etnomusicologia presso l'Accademia Chigiana di Siena.
- 8 Settembre 1991 "Schedatura e classificazione dei canti di nozze", intervento al Convegno "Le fonti etnomusicologiche in Italia centrale: problemi di reperimento, schedatura ed analisi", CEDRAV, Cerreto di Spoleto.
- 14 Dicembre 1991 "La Settimana Santa a Scanno: primi risultati di una ricerca", relazione tenuta nell'ambito del Convegno "Liturgia e Paraliturgia nella Tradizione Orale", Santu Lussurgiu (SS).
- 7 Novembre 1996 "Transposed Laments: The Bride's Weeping" World Conference "Gender and Music of Death", Music and Gender Study Group of International Council for Traditional Music, Washington, University of Maryland.
- 1 Gennaio 1997 "Il ruolo delle donne nella musica tradizionale della Cantabria", conferenza tenuta per l'Associazione Musicale ARAM, presso il Luogo della Musica.
- 1 Giugno 2000 "Arboles de cantos: la pandereta como elemento fundamental de la cultura musical de Cantabria", Universidad de Cantabria, Santander.
- 7 Luglio 2000 "Musica y identidad en Cantabria", VI Congreso de la SIBE, Sociedad Iberica de Etnomusicologia, Faro (Algarve-Portogallo)

- 2 marzo 2001 "Presentazione del sito Phonomedia traditio", III Settimana per la Cultura, Ministero dei Beni e delle Attività culturali, Roma, Auditorium della Discoteca di Stato.
- 23 marzo 2001 "Phonomedia traditio", Torroella, Spagna
- **-8-9 maggio 2003** "Sovrapporre suoni, sovrapporre culture: La costruzione di un'identità nahua attraverso la musica e la danza", Simposio "Gli indigeni messicani oggi. Protagonisti e dinamiche dell'identità etnica", Università La Sapienza, Roma.
- -maggio 2003 "Il tango in Italia negli anni '30" e "Verso Sud". Presentazione delle mostre virtuali della Discoteca di Stato (in collaborazione con Antonio Arredi), Paraninfo dell'Università di Valladolid.
- 5 aprile 2005 "La pandereta como simbolo de la cultura musical cantabra", I Jornadas de musica tradicional cantabra, parlamento de Cantabria, RNE, Santander (Spagna)
- **3 novembre 2005** "Procesos de cambio en el estilo de la jota en Cantabria", III Jornadas Folclore y Sociedad. Cultura tradicional en España. Proyectos de investigación en fase de realización y resultado recientes", CIOFF, Universidad Complutense, Madrid.
- 28 ottobre 2006 "La danza come cammino verso Dio. Le espressioni coreutica-musicali degli indigeni messicani", Associazione Culturale Eumeswil, Firenze.
- 14 novembre 2006 "La musica tradicional femenina en Cantabria", Casa de la Cultura, Ayuntamento de Torrelavega, Cantabria (Spagna)
- 13, 14 e 15 dicembre 2006 "Más allá de la música: el caso de los aborigenes australianos. Un ejemplo de aplicación del saber etnomusicologico", VII Congreso Internacional de la Sociedad Española de Antropología Aplicada, Santander, Fundación Marcelino Botin,
- 11-15 luglio 2007 "Calabrian Communities in Argentina. Music and Dance as an Emblem of Identity", 18th Congress of the International Musicological Society, University of Zurich...
- **6-9 marzo 2008** "Música y migración: las comunidades calabreses", *X Congreso de la SIBE*, Conservatorio di Salamanca, Spagna.
- 13-15 novembre 2008 "Lo de la Montaña ya se perdió: ripensare il concetto di musica tradizionale", L'etnomusicologia italiana a Sessanta anni dalla nascita del CNSMP 1948, Accademia Nazionale di Santa Cecilia, MUSA, Roma, Italia, 2008.
- **27-29 novembre 2008** "La Jota in Cantabria: dalla piazza al palcoscenico", Congreso Internacional La disciplina coreológica en Europa. Problemas y perspectivas, Universidad de Valladolid, España, 2008.
- **7-8 ottobre 2010** "Defend its own identity away its own land through the music", International workshop "Migration and Urban Music Culture in South America", University of Freiburg-Deutsches Volksliedarchiv, Freiburg, Alemania.
- 9-12 giugno 2011 "Il cuore del tempo. Impegno, cura, sentimento", I dialoghi di Trani, Italia.

- **12-18 luglio 2011** "Performing Pre-Hispanic Past trough Music and Dance: The Nahua Community of the Sierra Norte de Puebla (Mexico)", 41<sup>st</sup> Worls Conference of the International Council for Traditional Music (ICTM), St. John's, Newfoundland, Canada, 2011.
- **24-26 agosto 2011** "Performing Identity: the Jota in Cantabria (Spain), 4<sup>th</sup> International Symposium of the Department of Musicology of the Faculty of Arts of the University of Ljubjana, Slovenia.
- 19-24 settembre 2011 "The danza de los Voladores in Puebla, Mexico: Retihinking the Past", XII Congress of the ICTM Study Group for Music Archeology, Valladolid, España, 2011.
- 1-7 luglio 2012 "Identity themselves with music: The process of identity construction in Cantabria, Spain", 19<sup>th</sup> Congress of the International Musicological Society, "Musics, Cultures, Identities", Auditorium Parco della Musica, Roma, 5 luglio 2012.
- 1-7 luglio 2012 "To imagine places, to imagine cultures", comunicazione nell'IMS Study Group RIIA Rapporti Italo Ibero Americani: "Migrations yesterday and today:Identity and Music", 19<sup>th</sup> Congress of the International Musicological Society, "Musics, Cultures, Identities", Auditorium Parco della Musica, Roma, 5 luglio 2012 (1-7 luglio 2012).
- **8-10 novembre 2012** "La danza de los Voladores: de ritual Azteca a patrimonio Unesco", XII Congreso SIBE, Sonidos del presente, propuestas de future, Caceres, 10 novembre 2012., Complejo Cultural San Francisco, Caceres.
- 31 maggio-2 giugno 2013, "Rebulding a cultural space: the Calabrian Communities in Argentina" (1 giugno), Joint Meeting of Austrian, Italian ancd Switzerland of ICTM Committes, Malles, Venosta,
- **26-29 settembre 2013**, "Patrimonializzare il passato azteco: la danza dei Voladores" (27 settembre), *Conference of Italy ICTM National Committie*, Cagliari-Orgosolo, Università di Cagliari.
- 13-15 febbraio 2014 "Por el canto se conoce el pajaro. Il Cancionero popular de la Provincia de Santander di Don Sixto Cordova y Oña", Figure dell'etnografia musicale europea. Materiali, Persistenze, Trasformazioni.Convegno di studi per il 150° anniversario della nascita di Alberto Favara (1863-2013), Università degli Studi di Palermo.
- 1-2 marzo 2014 "La musica folk nel cinema: il cinema etnografico degli anni '50 e '60", Seminario "Il paesaggio sonoro del cinema italiano: 1945-1975", coordinato da Gianmario Borio e Roberto Calabretto, Fondazione Cini, Venezia.

## ALTRE ATTIVITA' SCIENTIFICHE

- Collaborazione allestimento Mostra fotografica documentaria "Italian antrhopology and anthropologists" sulla storia degli studi antropologici in Italia dal 1945 ad oggi, presentata a Berlino presso l'Institut fur Ethnologie, nel periodo maggio-luglio 1995.
- Attività di volontariato presso la Discoteca di Stato di Roma, dal 2-12-1996 al 2-06-1997. In detto periodo ha catalogato documenti registrati su nastro dell'Archivio Etnico-Linguistico-Musicale.
- Partecipazione corso di catalogazione sistema SBN organizzato dalla Provincia di Roma, 1997.
- "Catalogazione degli strumenti musicali del Museo di Arpino Contratto della Regione Lazio Dal:10-12-1998 al 30-06-1998

Ricercatore responsabile: Roberta Tucci

- "Catalogazione dei documenti dell' Archivio Etnico Linguistico Musicale della Discoteca di

Contratto della Società Biblionova e Discoteca di Stato

Dal 05-11-1998 al 30-06-1999

Ricercatore responsabile: Giovanna Grio

- "Catalogazione di partiture e documenti sonori" Titolo del progetto: "L'Archivio di Giacinto Scelsi" Contratto della Fondazione Giacinto Scelsi, Roma.

Dal:01-06-2001 al 31-12-2001

Ricercatore responsabile: Stefania Gianni

- "Catalogazione di partiture e documenti sonori" Titolo del progetto: "L'Archivio di Giacinto Scelsi" Contratto della Fondazione Giacinto Scelsi, Roma.

Dal:01-01-2002 al 31-12-2001

Ricercatore responsabile: Stefania Gianni

- "Catalogazione di partiture e documenti sonori" Titolo del progetto: "L'Archivio di Giacinto Scelsi" Contratto della Fondazione Giacinto Scelsi, Roma.

Dal:01-01-2003 al 31-12-2003

Ricercatore responsabile: Stefania Gianni

- Catalogazione di Beni demoantropologici

Titolo del progetto: "La cultura del vino e della vite nell'area reatina. Luoghi, oggetti e memorie"

Contratto della Regione Lazio

Dal 04-12-02 al 13-10-03

Ricercatore responsabile: Maria Vincenza Zongoli

### COLLABORAZIONI RAI

- 11-30 Giugno 1990 Maestro e compilatore del programma radiofonico "Etnomusica".

- 5 Agosto al 31 Dicembre 1991 Compilatore trattamento televisivo del programma "Dedicato a Diego Carpitella".
- 6 Luglio 1993 Trasmissione radiofonica sulla musica tradizionale, nell'ambito del programma radiofonico "Musica Insieme"
- 15 Gennaio al 18 Marzo 1994 Programma televisivo "Dedicato a Diego Carpitella".

## **CONFERENZE:**

- 5-19 de abril de 1989 "Per una guida all'ascolto della musica di tradizione orale", due conferenze sulla musica di tradizione orale in Africa, Europa e Italia, tenute presso la sala conferenze dell'IRTEM.
- 19 de julio de 1989 "La classificazione dei canti di nozze", seminario di Etnomusicologia presso l'Accademia Chigiana di Siena.
- 8 de septiembre de 1991 "Schedatura e classificazione dei canti di nozze", intervento al Convegno "Le fonti etnomusicologiche in Italia centrale: problemi di reperimento, schedatura ed analisi", CEDRAV, Cerreto di Spoleto.
- 14 de diciembre de 1991 "La Settimana Santa a Scanno: primi risultati di una ricerca", relazione tenuta nell'ambito del Convegno "Liturgia e Paraliturgia nella Tradizione Orale", Santu Lussurgiu (SS).
- 1 de enero de 1997 "Il ruolo delle donne nella musica tradizionale della Cantabria", conferenza tenuta per l'Associazione Musicale ARAM, presso il Luogo della Musica.
- 1 de Junio de 2000 "Arboles de cantos: la pandereta como elemento fundamental de la cultura musical de Cantabria", Paraninfo de la Universidad de Cantabria, Santander.
- 2 de marzo de 2001 "Presentazione del sito Phonomedia traditio", III Settimana per la Cultura, Ministero dei Beni e delle Attività culturali, Roma, Auditorium della Discoteca di Stato.
- 23 de marzo de 2001 "Phonomedia traditio", Torroella, España.
- **5 de mayo 2003** "Il tango in Italia negli anni '30" e "Verso Sud". Presentazione delle mostre virtuali della Discoteca di Stato (in collaborazione con Antonio Arredi), Paraninfo dell'Università di Valladolid.
- 28 de octubre de 2006 "La danza come cammino verso Dio. Le espressioni coreutica-musicali degli indigeni messicani", Associazione Culturale Eumeswil, Firenze.
- 14 de noviembre de 2006 "La musica tradicional femenina en Cantabria", Asociación Bisalia, Casa de la Cultura, Ayuntamento de Torrelavega, Cantabria (Spagna)
- 13 de febrero de 2009 "Conferenza introduttiva alle problematiche e alle prospettive inaugurate dall'odierna etnomusicologia". Conservatorio di musica "G.B.Pergolesi", Fermo, Italia.