

PERSONAL INFORMATION



Prof. Gianpaolo Ruocco, PhD

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🌐 [www2.unibas.it/CFDnova](http://www2.unibas.it/CFDnova)

Gender Male | Date of birth 1 May 1961 | Nationality Italian

ACADEMIC EXPERIENCE

nov 1997 – present

**Associate Professor, tenured position**

Qualified for full professorship in the 2012/13 National Call for 09/C2 academic sector “Engineering thermodynamics and nuclear engineering”

Activity field Teaching and research: Thermodynamics, Transport phenomena, Bioengineering, Energy management

Live research links – ORCID record <http://orcid.org/0000-0001-5342-3208>  
– SCOPUS Author ID <https://www.scopus.com/authid/detail.uri?authorId=7005837421>

Teaching – from AY 2005/06 to date: Transport Phenomena  
– from AY 1997/98 to 2015/16: Engineering Thermodynamics  
– from AY 1997/98 to 1998/99: Fundamentals of Statistics and Computer Science  
– from AY 2004/05 to 2010/11: Alternative Energy Management

Supervision A total of 20 Doctoral and Master’s Degree Thesis in the field of Thermal Fluid Science

Name and address of employer Engineering College, University of Basilicata, Campus Macchia Romana, I-85100 Potenza

dec 2013 – dec 2015 **Research Fellow**

Activity field Research coordination for various bioengineering projects

Name and address of employer Institute of Food Science ISPA-CNR, 122/o Via G. Amendola, I-70126 Bari

oct 2000 – mar 2002 **Lecturer**

Activity field Engineering thermodynamics

Name and address of employer University of Rome “Tor Vergata”, 1 Via del Politecnico I-00133 Rome

1999 – 2008 **Head of Research for Projects of Relevant National Interest – PRIN**

Activity field Organization, management, coordination of the local research group

Total amount raised About €200k

Project titles – Combined modes of heat transfer in gaseous impinging jets  
– Visualization and integrated simulation for the evaluation of heat transfer from impinging jets over plates in innovative configurations  
– Practical applications in process industries of heat and mass exchange due to impinging jets  
– Transport phenomena from plane and modified surfaces

Name and address of employer Italian Ministry of University, 76A Viale Trastevere, I-00153 Rome

oct 1994 – oct 1997 **Assistant Professor in tenure-track**

Activity field Teaching and research: industrial and environmental engineering

Name and address of employer University of Naples “Federico II”, 80 Piazzale Tecchio, I-80125 Naples

oct 1993 – jun 1994 **Lecturer**

Activity field Mathematics  
 Name and address of employer University of Maryland University College Europe, NSA Capodichino, Naples  
 oct 1986 – jun 1987 [Teaching Assistant](#)  
 Activity field Thermal and fluid science  
 Name and address of employer Tufts University, 419 Boston Ave, Medford, MA 02155

## PROFESSIONAL EXPERIENCE

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2016 – present [Academic spin-off “BMB”](#) (initiatives for Bio-Materials Behavior)  
 Activity field Development and implementation of bioengineering applications based on thermodynamics and computational transfer phenomena  
 Name and address of employer Engineering College, University of Basilicata, Campus Macchia Romana, I-85100 Potenza  
 Tasks CEO  
 2011 – 2014 [Incubated work group “CFDINNOVA”](#)  
 Activity field Multi-physics virtualization in process bioengineering  
 Name and address of employer AREA Science Park, 99 Padriciano, I-34149 Trieste  
 Tasks CEO  
 2010 – present [Technology transfer group “CFDnova”](#)  
 Activity field Research and Development in Food & Bioengineering  
 Name and address of employer Self-employed  
 Total amount raised Ca. €300k  
 Tasks CEO  
 feb 2006 – oct 2007 [Advisor of Commission of Patents and Technological Transfer](#)  
 Activity field Institutional management  
 Name and address of employer University of Basilicata, Campus Macchia Romana, I-85100 Potenza  
 Tasks Advisor, coordinator  
 nov 2002 – jul 2005 [Director of Scientific Library](#)  
 Activity field Institutional management  
 Name and address of employer University of Basilicata, Campus Macchia Romana, I-85100 Potenza  
 Tasks Administrative direction and personnel management  
 2002 – 2003 [Expert Evaluator for Framework Programmes 5 and 6 of the European Community](#)  
 Activity field Technical and administrative management of international research projects  
 Task Paneler for projects evaluation, in the energy framework  
 Name and address of employer Research Directorate-General, European Community, SDME 2/2, B-1049 Bruxelles  
 1995 – 1996 [Professional Engineer, Thermal Systems](#)  
 Activity field Engineering firm  
 Task Design, verification, testing of mechanical systems in buildings (Part-time)  
 Name and address of employer Tecnosistem SpA, 9 Vico II San Nicola alla Dogana, I-80133 Naples  
 1985 – 1994 [Professional Engineer, Thermal Systems](#)  
 Activity field Engineering firm  
 Task Design, verification, testing of mechanical systems in buildings (Part-time)  
 Name and address of employer Fred S. Dubin Associate, Viale Tiziano, I-00196 Rome

## EDUCATION AND TRAINING

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feb 1993 – sep 1994	<a href="#">Post-doctorate</a> , with awarded scholarship
Majors	Transport phenomena, Environmental energy management
Name and address of employer	University of Naples “Federico II”, 80 Piazzale Tecchio, I-80125 Naples
nov 1989 – aug 1992	<a href="#">Ph.D. in Mechanical Engineering</a> , with awarded scholarship
Majors	Transport phenomena, Environmental energy management, High-temperature solar energy
Name and address of institution	University of Naples “Federico II”, 80 Piazzale Tecchio, I-80125 Naples
aug 1985 – dec 1987	<a href="#">M.S. in Mechanical Engineering</a> , with awarded tuition scholarship, GPA A-
Majors	Heat transfer, Fluid mechanics, Computer aided design
Name and address of institution	Tufts University, 419 Boston Ave, Medford, MA 02155
oct 1979 – mar 1985	<a href="#">Laurea degree in Mechanical Engineering</a> , graduated summa cum laude
Majors	Energy systems, Acoustics, Heat transfer
Name and address of institution	University of Naples “Federico II”, 80 Piazzale Tecchio, I-80125 Naples

## REFEREE ACTIVITY

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International Journal	<ul style="list-style-type: none"> <li>– Swiss National Science Foundation, from 2016</li> <li>– Propulsion and Power Research, from 2016</li> <li>– Biosystems Engineering, from 2016</li> <li>– Drying Technology, from 2015</li> <li>– Applied Thermal Engineering, from 2015</li> <li>– Postharvest Biology and Technology, from 2014</li> <li>– International Journal of Energy and Environmental Engineering, from 2014</li> <li>– Powder Technology, from 2014</li> <li>– Food Engineering Reviews, from 2014</li> <li>– Chemical Engineering Science, from 2014</li> <li>– Chemical Engineering and Processing: Process Intensification, from 2014</li> <li>– Chemical Engineering Research and Design, from 2014</li> <li>– International Journal of Heat and Fluid Flow, from 2013</li> <li>– Food Research International, from 2012</li> <li>– Experimental Thermal Fluid Science, from 2012</li> <li>– International Journal of Computational Fluid Dynamics, from 2012</li> <li>– Applied Energy, from 2011</li> <li>– International Journal for Computational Methods in Engineering Science &amp; Mechanics, from 2009</li> <li>– Food and Bioproducts Processing, from 2009</li> <li>– Food and Bioprocess Technology, from 2009</li> <li>– AIAA Journal of Thermophysics and Heat Transfer, from 2009</li> <li>– Journal of Food Engineering, from 2008</li> <li>– International Communications in Heat and Mass Transfer, from 2004</li> <li>– International Journal of Heat and Mass Transfer, from 2004</li> <li>– Heat and Mass Transfer, from 2001</li> <li>– International Journal of Thermal Sciences, from 2001</li> <li>– Numerical Heat Transfer, in 1997-01</li> </ul>
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## INVITED SEMINARS

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1999	Jet impingement heat transfer (with fellowship). Department of Mechanical Engineering, University of Tokyo, Tokyo (host: Prof. M. Shoji)
1999	Selected topics in heat transfer (with fellowship). Institute of Fluid Science, Tohoku University, Sendai (host: Prof. T. Aihara)

- 2004 Selected topics in heat transfer. Institute of Fluid Science, Tohoku University, Sendai (host: Prof. S. Maruyama)
- from 2006 – present Selected topics in transport phenomena in biosubstrates (with fellowship). Universidad Politécnica de Valencia, Valencia (host: Prof. A. Mulet Pons)
- 2010 Selected topics in conjugate heat transfer. Universidad Politécnica de Cataluña, Barcelona (host: Prof. M. Chiumenti)
- nov 2012 In-silico experiments of conjugate momentum, heat and mass transfers (with fellowship). University of Castilla–La Mancha, Ciudad Real (host: Prof. A. Salvador)
- oct 2015 Virtualization of biosubstrates processing. University of Salerno, Salerno (host: Prof. F. Marra)