

Curriculum Vitae

Name	Umberto Rizza
Date of Birth	
Place of Birth	
Nationality	
Home address	
Work address	Strada Prov Lecce-Monteroni km 1.2 73100, Lecce, Italy
Work phone	+39 - 0832 - 298719
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Personal web page	
Actual employment	Senior Researcher at CNR/ISAC
Primary employment	Researcher
Bachelor degree	Physics, University of Bologna Italian,
Languages	English, Portuguese
Research interests	Turbulence simulations; Air quality modeling
Projects	09 Projects: Coordination 14 Projects: Participation
Academic Tutoring	3 Bachelor Dissertations 8 PhD Thesis
H-index	21 (Google-Scholar)
Publications	81 Journal Articles (ISI) and 85 Not ISI.

ACADEMIC BACKGROUND

1982 – 1989: Full time student in Physics, with specialization thesis in " Lagrangian Modelling of Transport and Diffusion of Passive Contaminants in Atmospheric Boundary Layer" (supervisor dr. F.Tampieri) at Department of Physics at Bologna University.

1991 – 1993: Doctorate-fellowship with specialization thesis in "Mathematical Modelling of Air Pollution in Atmospheric Boundary Layer" (Supervisor prof. T.Tirabassi), CNR-FISBAT, Bologna, Italy.

WORK EXPERIENCES

1 September 1993 - 30 November 1994

Environmental consultant at PHYSIS SRL, Bologna, Italy

1 December 1994 - 26 December 2001

Full time Researcher at CNR - ISIAAtA, Lecce Italy

27 December 2001 – 30 September 2008

Senior Researcher at CNR- ISAC – Italy

01 October 2008 – 30 September 2011

Visiting Professor at UFSM (Federal University of Santa Maria)
Santa Maria, RS, Brasil

01 October 2011 -

Senior Researcher at CNR- ISAC – Italy

ACADEMIC ACTIVITY AND TUTORING

Academic year 1998/1999- Tutor of Bachelor thesis: Ilenia Schipa

Air quality studies with a dispersion model for tropospheric pollutant: Application in the industrial sites of Salento peninsula, University of Lecce;

Academic year 2000/2001- Tutor of Bachelor thesis: Carmen Ligorì

Dispersion modeling in a Large Eddy Simulation generated Planetary Boundary Layer, University of Lecce;

Academic year 2001/2002- Tutor of Bachelor thesis: Alexandre Radicchi

Dispersion modeling for passive contaminants in a Large Eddy Simulation generated Planetary Boundary Layer, University of Urbino;

Co-Tutor of PhD thesis: Ilenia Schipa

A modelistic system for the study of inert/reactive pollutants from local to regional scale, (Joint Consortium of Universities of Lecce-Messina-Palermo, XV ciclo);

Co-Tutor of PhD thesis: Annalisa Tanzarella

Meteorological modeling for air quality in coastal areas
(Joint Consortium of Universities of Lecce-Messina-Palermo, XVI ciclo);

Co-Tutor of PhD thesis: Ivan Mammarella

Analysis of mean and spectral features of the Planetary Boundary over complex terrain
(Joint Consortium of Universities of Lecce-Messina-Palermo, XVI ciclo);

Tutor of PhD thesis: Giulia Gioia

Study of dispersion properties of planetary boundary layer by means of large-eddy simulations, (Joint Consortium of Universities of Lecce-Messina-Palermo, XVII ciclo);

Co-Tutor of PhD thesis: Edson P.Marques Filho

Investigation of the Convective Boundary layer with Large-Eddy Simulations and application to contaminant dispersion, (IAG-USP, University of São Paulo, Institute of Astronomy and Geophysics);

Tutor of PhD thesis: Mariana Cassol

Large-Eddy Simulation over heterogeneous terrain, (University of Lecce - Dep. Of Engineering);

Lectures held at University of Lecce (Department of Biology) in the context of the course : Dispersion modeling and monitoring systems, July 1998;

Chairman of the summer school: Lectures on planetary boundary layer turbulence and air pollution modeling, organised by ISIATA-CNR and Lecce University, October 2001, Castro Marina (Le), Italy;

Lectures held at CEAM (Environmental Centre Maglie) in the context of the course: Photochemical air pollution, 2002;

Lectures held at the Federal University of Santa Maria (Santa Maria, RS Brasil) in the context of the summer school: Large-Eddy Simulation of the planetary boundary layer turbulence (December 2004);

Chairman of the summer school: Transport and chemistry in air pollution modeling, organised by ISAC-CNR section of Lecce, September 2007, Castro Marina (Le), Italy;

Chairman of the 4th summer school: Severe Convective Weather: Theory and Applications, organised by ISAC-CNR section of Lecce, September 2012, Castro Marina (Le), Italy;

REVIEWER ASSIGNMENTS

Journal of Applied Meteorology, Boundary Layer Meteorology, Atmospheric Environment, Journal of the Air and Waste Management Association, Short Communications, Pure and Applied Geophysics, Applied Mathematics and Computations; Meteorological Applications; Latin American Applied Research;

EDITORIAL BOARDS

1) International Scholarly Research Network (ISRN) - Meteorology
(<http://www.hindawi.com/isrn/meteorology>)

2) Dataset Papers in Geosciences – Meteorology
(<http://www.datasets.com/journals/geosciences/editors/meteorology>)

PARTICIPATION IN M.SC. BOARDS

1. Carvalho J.C., Degrazia G.A., Rizza Umberto
Participation in Boards of Rodrigo Lovato. , 2007
(Meteorology) Universidade Federal de Pelotas
2. Rizza Umberto, Tirabassi T., Goulart A.
Participation in Boards of Franco Degrazia. , 2003
(Other) Universidade Luterana do Brasil

PARTICIPATION IN PhD BOARDS

1. Degrazia G.A., Rizza Umberto, Acevedo C. Otavio, Goulart A., Lidiane Buligon
Participation in Boards of Franciano Scremin Puhales, 2011
(Physics) Universidade Federal de Santa Maria
2. Degrazia G.A., Rizza Umberto
Participation in Boards of Kelen Berra de Mello, 2009
(Mechanical Engineering) Universidade Federal do Rio Grande do Sul
3. Rizza Umberto, Fish G., Francis França
Participation in Boards of Daniela Buske, 2008
(Mechanical Engineering) Universidade Federal do Rio Grande do Sul
4. Rizza Umberto, MIAHAYLOV, M. D.
Participation in Boards of Deise Maria Cirolini Milbradt, 2008
(Mechanical Engineering) Universidade Federal do Rio Grande do Sul
5. Moraes O. L.L., Fish G., Rizza Umberto, Acevedo C. Otavio, Degrazia G.A.
Participation in Boards of Roberto de Oliveira Magnago, 2007
(Physics) Universidade Federal de Santa Maria
6. Rizza Umberto, Acevedo C. Otavio, Deane de Abreu L.
Participation in Boards of Edson Pereira Marque Filho, 2004
(Geophysics) Universidade de São Paulo

COORDINATIONS OF RESEARCH PROJECTS

- 1) 1995/1996 - Coordinator of the project: “Integration between a dispersion model with a monitoring network located in the Provincia of Sassari”. Committed by: PHYSIS, SRL, Bologna;
- 2) 1995/2000 - Coordinator of the research activities of Institute ISIAAtA of CNR:

Eulerian mathematical modeling of turbulent dispersion;

3) 1997/2001 - Coordinator of the project: “Air quality dispersion modeling in the Apulia Region”. Committed by: Apulia Region;

4) 2001/2002: Scientific coordinator on the Italian side of the bilateral project between CNR (Italy) and CNPq (Brasil): “Air Pollution studies over regional scale”;

5) 2002/2003: Scientific coordinator on the Italian side of the bilateral project between CNR (Italy) and HMI (Hydro-Meteorological Institute, Tirana, Albania): “Meteorology and air pollution modelling in coastal areas with complex orography”;

6) 2003/2004: Scientific coordinator on the Italian side of the bilateral project between CNR (Italy) and CNPq (Brasil): “Air Pollution modelling with Large Eddy Simulation”;

7) 2003-2005: Coordinator of the research project: “local scale photochemical air quality modeling” Committed by: l'Osservatorio dell'Inquinamento dell'Atmosfera (Provincia di Lecce);

8) 2006-2009: Participation and local coordinator (Section Of Lecce) of the research project: “LES over heterogeneous terrain” in the framework of the Research Training Network named ModObs. Committed by: Marie Curie actions of FP6, Human Resources and Mobility program;

9) 2004-2006: Participation and local coordinator (section of Lecce) of the following activities “ proposal of air-quality plan” Committed by Regione Apulia;

10) 2004-2006: Participation and local coordinator (section of Lecce) of the following activities “Air Pollution studies at regional scale” committed by MIUR (Ministero Università e Ricerca) in the framework of program: “Combining in situ measurements with numerical modeling of air pollutant”;

11) 2006-2008: Coordinator of the research project: “air quality modelling” Committed by: Provincia di Lecce;

12) 2007-2008: Coordinator of Work Package 2.4: development of innovative techniques for the forecast, monitoring and the management of air quality, of the research project Environment Remote Sensing Interregional Agency (ERESIA).