

Nazario Tartaglione

Professional Profile

A results-driven and adaptable professional with years of expertise in delivering exceptional results within the atmospheric science profession, playing a key role in the completion of various complex research and industry projects. Able to create and foster beneficial professional relationships with internal/external personnel through the use of excellent interpersonal and communication skills. Applies a logical and analytical approach in resolving complex problems and issues. Currently searching for a challenging position within the meteorological or climate profession with an organisation which will best make use of existing skills and will facilitate further personal and professional development.

Education and Qualifications

- 2015:** PhD in Physics - University of Camerino; 11st May 2015
Thesis – “Heating Distributions and Hadley Circulation in an Axisymmetric Model”
- 1994:** Laurea in Fisica (equivalent to M.Sc. in Physics) – University of Bologna **Thesis** –
“Numerical Simulations of Supercells on the Padania Valley”

Recent Professional Development

- “The Reasoning, Data Analysis, and Writing Specialization” by Duke University through Coursera (2016)
“TensorFlow 2 for Deep Learning” by Imperial College London through Coursera (2020-2021)

Career Summary

- 09-2018 - Present** **Mathematics and Science Teacher – Fermo, Italy**
- 01-2017 – 08-2018** **PostDoc – Uni Research – Bergen, Norway**
- Performing activity for the project SOLENA (Solar effects on natural climate variability in the North Atlantic and the Arctic): Designing and execution of climate experiments with WACCM. Analysis of data, development of scientific software in python. Writing papers and attending conferences.
- 2016:** **Independent Contractor – RED - Risk, Engineering + Development – Pavia, Italy**
- Porting and setting of the WRF model for simulating hurricane events over Caribbean area. Merging of modelled and observed (satellite) precipitation to retrieve precipitation estimates for insurance aims.
- 2011 – 2016:** **Mathematics and Science Teacher – Fermo, Italy**
- ☐ Ensuring the provision of engaging and informative classes to a diverse selection of students, Practicing effective classroom management, designing and delivering extensive examinations.
- 2008 - 2010:** **Research Associate – University College of Dublin – Dublin, Ireland**
- Swiftly adapting to a diverse working environment, efficiently managing an automated system to run both meteorological and climate models by designing Python routines
 - Furthering expertise in the use of numerous crucial software, such as BOLAM, WRF and CAM, in order to successfully complete a numerical study concerned with cyclones effect on Europe.
- 2003 - 2009:** **Researcher – Department of Physics, University of Camerino, Camerino, Italy**
- Fully responsible for an inter-comparison project on precipitation levels as observed by a wide variety of instruments and numerical models. Retriving atmospheric profiles of temperature from radio-occultation data through designing an 1-D Var scheme in MATLAB software. Development of a verification system for the forecasting centre of the civil protection.
 - Teaching courses in Physics, ensuring a focus on providing a solid scientific education for undergraduates and postgraduates in technical fields in addition to developing skills in thesis supervision, fulfilling the duties of supervisor for B.Sc. and M.Sc. Thesis.
- 2002 - 2003:** **Mathematics, Physics and Electronics Teacher– Various secondary schools**
- 03 – 09/2002:** **Independent Contractor - University of Camerino**
- ☐ Utilising detail-orientated capabilities to conduct exhaustive analysis of modelled precipitation fields in addition to determining the impact of diffusion schemes on modelled winds
- 1998 – 2002:** **Technologist - National Agency for Environment and Energy (ENEA) – Rome, Italy** ☐ Assisting as part of development team in the creation of a weather and sea state forecasting system.

1996 – 1997: **Meteorology Teacher – Aeronautical Technical Institute “F. Baracca”, Forlì**

1994 – 1996: **Fellow - former FISBAT Institute (Now Institute for Atmosphere and Climate Study – ISAC - Bologna) of the National Research Council**

Consultancy Positions/Professional Affiliations

- ☐ Consultant - **Consortium for the Study of Padania and Adriatic Environment (COMPA)**, applying my professional expertise to design and manage new numerical schemes for computers which utilised substantial amounts of processors.
- ☐ Consultant - **QUADRICS Ltd.**, providing comprehensive and tailored guidance for personnel working on successfully porting a limited area model on a SVG supercomputer.
- ☐ Consultant - **CINFAI (Italian Inter-university Consortium for physics of atmosphere and hydrosphere)**, applying substantial meteorological expertise to conduct exhaustive analysis of precipitation and tides/sea waves activity for the Ancona tide gauge, for a multitude of INTERREG projects.
- ☐ Consultant - **former institute FISBAT (Now ISAC) of National Research Council**, fully responsible for the creation and development of effective post-processing routines in FORTRAN
- ☐ Member of the American Geophysics Union, European Geoscience Union and American Meteorological Society

Research Projects

2017 - 2020: **Research Council of Norway – Uni Research**

- ☐ SOLENA (Solar effects on natural climate variability in the North Atlantic and Arctic)

2008 - 2010: **Science Foundation Ireland Project - UCD**

- ☐ “Present and Future Statistics of Extreme European Storms in a Large Ensemble of High-Resolution Atmosphere Model Simulations”,

2007 - 2010: **Co-Investigator (€68,000 funding) for University of Camerino**

- ☐ Working extensively on the Italian Space Agency project ROSA (Radio-Occultation Sounding of the Atmosphere) with P.I. Prof. Giovanni Perona of the Polytechnic of Turin

2007 - 2010: **“Nowcasting: Civil protection and Flood Emergency” - UNICAM;**

- ☐ Developing a system for verifying precipitation for a civil protection system

2006 - 2008: **Italian Research Ministry project (PRIN) - UNICAM**

- ☐ Playing an instrumental role in the completion of a project concerned with the deterministic and statistical properties of large scale vortexes in the Atmosphere and the Ocean

2003 - 2006: **UE project VOLTAIRE - UNICAM**

- ☐ Verifying forecast precipitation with a variety of observations, collaborating with the Polytechnic of Turin, Meteo Swiss, Italian Agency for Environment, George Mason University, University of Ljubjana, Cyprus Met Service, and Universitat Politècnica de Catalunya

1997 - 2002: **National Department of Technical Services (now ISPRA) project at ENEA**

- ☐ Development of sea state and weather forecasting system

1996 - 1999: **Mesoscale Alpine Programme**

- ☐ Study of intense precipitation events in the Alpine region

1994 - 1995: **UE project ANOMALIA - FISBAT**

- Study of intense precipitation events in the Alpine region
- Involved in wide variety of INTERREG UE projects, namely CADSEALAND (<http://www.cadsealand.net/>) HYDROCARE (<http://www.hydrocare-cadses.net/>) and FORALPS (<http://www.unitn.it/foralps/>)

Additional Skills

IT skills: Python; FORTRAN; MATLAB; R; Unix scripting, NCAR Graphics; NCO & CDO toolkit; WRF; CAM; WACCM; Linux, Windows; Office and other application software

Languages: Italian (Native); English (Advanced); Spanish (Intermediate); Norwegian (Basic)

