

Personal Details

Nationality:	Greek	Home Address:	Dodekanisou 88 Vrilissia, Athens, Greece
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Academic Qualifications

- PhD Candidate**
- 09/2016 – Present : Laboratory of Climatology and Atmospheric Environment
National and Kapodistrian University of Athens (UOA)
- 01/2015 – 01/2017 : **Academic Visitor** in the department of Mechanical, Aerospace and Civil Engineering (MACE) at the University of Manchester
- 09/2013 – 09/2014 : **MSc in Applied Meteorology and Climatology**
University of Birmingham (UOB) United Kingdom
- 09/2006 – 09/2012 : **BSc in Geology and Geo-environment**
Specialization: Engineering Geology and Geophysics
National and Kapodistrian University of Athens (UOA)

Work Experience

- 01/2015- 09/2016 **Meteorologist – Wind Research Engineer within the Offshore wind team in R&D department of EDF Energy UK Centre**
- Mesoscale Simulations for wind farm applications
 - Wind Resource Assessment
 - Weather Forecasting Platform
 - PhD Student supervision
- 09/2014 – 01/2015 **Geotechnical Engineer at consulting geologists company GEOSKOPIO SA for the contractor: ARCO (Archirodon Company Overseas)**
- Participation and Assisting in the Geological and Geotechnical Project: “Geological and Geotechnical services for detailed design in connection with EPC works for early site preparation Jetty and Seawater Intake for Satah Al Razboot (SARB) Project” in Zirkuh Island, Abu Dhabi, United Arab Emirates including Geological-Geotechnical Mapping, office works, digital map process, data collection – evaluation
- 09/2014 **Forecaster at Weather Services International (WSI) – Birmingham Office**
Work Placement
- Forecasting for Ireland, Italy and Synoptic forecasts for Europe
 - ECMWF model evaluating
 - Weather Channel Blog editing for UK 3 days Outlook
- 10/2011– 03/2012 **Hellenic Ministry of the Environment, Energy and Climate Change**
Directorate of Natural Wealth
Practical Training Internship
- Map Creator via GIS ARC map (October – December)
 - Map Creator via GIS ARC map (January- February)

Publications and Conference Presentations

- Mylonas M. P., Barbouchi S. and Herrmann H. Mesoscale Modelling Methodology based on observational nudging to reduce uncertainty: EWEA Wind resource assessment conference, Helsinki, 2015
- Mylonas M. P., Barbouchi S. and Herrmann H. Investigation of the vertical observational nudging capability of WRF to reduce uncertainty in WRA: EWEA Annual Event, Paris, 2015.
- Mylonas M. P., Barbouchi S. and Herrmann H. Mesoscale modelling methodology based on nudging to increase accuracy in WRA. European Geosciences Union (EGU) / Vienna, Austria / 17-22 April 2016.
- Mylonas M. P., Nastos P.T. and Matsangouras I. T. (2016). Sensitivity Analysis on PBL Schemes of the WRF-ARW in simulating a tornado event at Skala, Lakonia, Peloponnese in September 2015 16th EMS Annual Meeting & 11th European Conference on Applied Climatology (ECAC)/ Trieste, Italy / 12-16 September 2016.
- Mylonas M. P., Nastos P.T. and Matsangouras I. T. (2016). Numerical Modelling of a Tornado Event at Skala, Lakonia, Peloponnese in September 2015. 13th international conference in Meteorology, Climatology and Atmospheric Physics / Thessaloniki, 2016.
- **Mylonas M. P., Nastos P.T. and Matsangouras I. T. (2017). Numerical Modelling of a Tornado Event at Skala, Lakonia, Peloponnese in September 2015. Chapter on Perspectives on Atmospheric Sciences.**
- **E. Avgoustoglou, I.T. Matsangouras, I. Pytharoulis, N. Kamperakis, M. Mylonas, P.T. Nastos, H.W. Bluestein, Numerical modeling analysis of the mesoscale environment conducive to two tornado events using the COSMO.Gr model over Greece, Atmos. Res. (2017). doi:10.1016/J.ATMOSRES.2017.07.022.**
- **M.P. Mylonas, P.T. Nastos, I.T. Matsangouras, (2017). PBL parameterization schemes sensitivity analysis on WRF modeling of a tornadic event environment in Skala Lakonia in September 2015, Atmos. Res. doi:10.1016/J.ATMOSRES.2017.11.023.**
- **M.P. Mylonas, S. Barbouchi, H. Herrmann, P.T. Nastos (2018). Sensitivity analysis of observational nudging methodology to reduce error in wind resource assessment (WRA) in the North Sea, Renew. Energy. 120 446–456. doi:10.1016/J.RENENE.2017.12.088.**

Academic Activities

- Reviewer in international Journal of Atmospheric Sciences
- Organizing Committee at MedClivar Conference in 2016 in Athens

University Projects

- Modelling the Vertical Structure of Tropical-like Mediterranean Cyclones using WRF Ensemble Forecasting and the impact of Climate Change (MEDICANE). The research is funded by the sectoral operational program “Human Resources Development, Education and Lifelong Learning”, titled as “Endorsement of Researchers with emphasis in young Scientists” (ESPA 2014-2020, EDBM34).

IT Skills

- Knowledge and programming skills in FORTRAN90, html, Python, Visual Basic, objective C and NCL languages, R, Bash, JavaScript
- Mat lab, RStudio, Surfer, GIS Arc Map, AutoCAD 2009-2013, SPSS statistics, OziExplorer, Corel
- ECDL Core Certificate: Concepts of Information Technology, Using the computer and managing files, Word processing, Excel Spreadsheets, Access Database, PowerPoint Presentations, Information and communication module
- Experience on all Operating systems interfaces (e.g. Unix-Linux, Windows and Macintosh) and HPC environments.