

Christos-Marios Stathopoulos

Athens, Greece
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Personal

Date of Birth: December 20, 1983
Citizenship: Greek

Education

PhD in Environmental Physics and Meteorology

Thesis in Atmospheric and Wave/Ocean modeling associated with air-sea interaction processes
National & Kapodistrian University of Athens
July 2021

MSc in Environmental Physics and Meteorology

Thesis title: “*Wind power prediction based on numerical and statistical models*”
National & Kapodistrian University of Athens
December 2011

BSc in Physics

National & Kapodistrian University of Athens
Major in Environmental Physics & Meteorology / Energy applications
December 2007

Research/Industrial and Academic Appointments

- 2014 - present **Research Assistant**
Atmospheric Modeling & Weather Forecasting Group, University of Athens, University Campus, Physics Building V, 15784 Athens (Greece)
- 2016 - present **Researcher – Contractor**
Weather and Marine Engineering Technologies (WEMET PC, <http://wemetpc.com>), Alimos, Athens, Greece
- 2014 - 2019 **Researcher – Contractor**
Innovation Technological Center S. A. (ITC - <https://itcnet.gr>)
- 2011 - 2013 **Researcher**
National Renewable Energy Center, Wind energy department, Sarriguren (Navarra), Spain. Involved in atmospheric modeling and downscaling predictions. (CENER-
<http://www.cener.com/>)
- 2012/01-2012/03 **Visiting Researcher**

- Danish Technical University, Riso-DTU, Roskilde, Denmark.
- 2010 - 2011 **Research Assistant**
Atmospheric Modeling & Weather Forecasting Group, University of Athens, University Campus, Physics Building V, 15784 Athens (Greece), (part-time)
- 2008 - 2010 **Teaching Assistant**
Laboratory exercises in Meteorology, Mechanics and Thermodynamics. Tutored bachelor students in Department of Physics, University of Athens. Department of Physics, University of Athens

Funding, Academic Awards and Honors

- 2018-2019: **Research Fellowship**: “Study of Extreme Environmental Events with Numerical Weather Prediction Models and Stochastic Processes”, Operational Program “Human Resources Development, Education and Lifelong Learning”, co-financed by the European Union (European Social Fund) and Greek national funds, MIS 5007050, www.edulll.gr
- 2011-2013: **Marie Curie Early Stage Research Vacancy**: in Wind resource assessment audit and standardization, EU funded

Skills

Language skills

Greek (Native Language)
English Fluent (C1 Level)
Spanish Good (B2 Level)

Computer Skills

Operating Systems: Windows, Linux/Unix, HPC systems
Programming: Fortran, C, Bash, Matlab, Python, Parallel Programming
Data Visualization/Statistical Packages: Matlab, Revu, ArcGIS, ncl
Data Handling: HDF, GRIB, NetCDF

Atmospheric Models

WRF // RAMS, RAMS/ICLAMS // WAM // HYPACT // LAPS

Fields of Scientific Activities

Atmospheric and Ocean/Wave Interaction, Modeling and Applications
Boundary Layer Meteorology
Extreme Weather Events

Publications in peer-reviewed journals and books (listed the 3 out of 9)

- **Stathopoulos C**, Kaperoni A, Galanis G, Kallos G, (2013): Wind power prediction based on numerical and statistical models. Journal. of Wind Energy & Industrial Aerodynamics. 112 (2013) 25-38

- **Stathopoulos, C.**, Patlakas, P., Tsalis, C. & Kallos, G. (2020) The Role of Sea Surface Temperature Forcing in the Life-Cycle of Mediterranean Cyclones. *Remote Sensing*, 12(5), 825
- **Stathopoulos, C.**, Galanis, G., and Kallos, G. (2020) A coupled modeling study of mechanical and thermodynamical air-ocean interface processes under sea storm conditions, *Dynamics of Atmospheres and Oceans*

International Conference Contributions (listed 3 out of 26)

- **C Stathopoulos**, P Patlakas, C Tsalis, GB Kallos. "On the impact of air-sea feedback mechanisms under storm events". AGU Fall Meeting 2018, 9 - 13 December, Washington, U.S.A.
- **C Stathopoulos**, G Galanis, Platon Patlakas, and G Kallos (2017) Assessing sea wave and spray effects on Marine Boundary Layer structure. European Geosciences Union conference, Vienna, Austria, April 2017.
- **Stathopoulos C**, Sanz J, Badger J, Cantero E, Fernades P, Galanis G, Lozano S (2012) Evaluation of the numerical wind atlas downscaling methodology in complex terrain, European Wind Energy Association Conference, Copenhagen, Denmark, April 2012

Reviewer for

- Journal of Wind Engineering and Industrial Aerodynamics
- Advances in Meteorology
- Journal of Wind Energy
- Journal of Energy and Power Technology

Participation in Scientific and Commercial Projects

- Development of a Forecasting system for GAMEP-KSA. (*Responsible for RAMS, RAMS/ICLAMS system setups*)
- ENI marine forecasts. Weather forecasting for various locations around the earth. This forecasting system is set up and runs operationally for the ENI oil Company of Italy.
- Renewable energy applications. Weather forecasting and provision of wind power and solar power forecasts for several Greek renewable companies.
- Development of 30-year dust climatology for the Arabian Peninsula (2014-2018) (*Responsible for the RAMS/ICLAMS model post-processing and evaluation*)
- EMODNET, No. MARE/2012/11: Growth and innovation in ocean economy- Gaps and priorities in sea basin observation and data. LOT NO: 2 – THE MEDITERRANEAN FP7, 2013-2017.
- EMODNET, Contract No EASME/EMFF/2014/1.3.1.3/LOT 4/SI2.709436: Growth and innovation in ocean economy- Gaps and priorities in sea basin observation and data. LOT NO: 4 – BLACK SEA H2020, 2015-2018.
- MARINA Platform Project, Grant agreement number: 241402
- Integrated Research Programme on Wind Energy (IRPWIND), Grant agreement number: 609795
- WAUDIT. Wind resource assessment audit and standardization, Grant agreement number: 238576