

Christos-Marios Stathopoulos

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Personal

Date of Birth: December 20, 1983
Citizenship: Greek

Education

Phd in Physics

Thesis in Atmospheric and Wave/Ocean modeling associated with air-sea interaction processes
National & Kapodistrian University of Athens
Atmospheric Modeling and Weather Forecasting Group
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

- 2016 - present **Researcher – Contractor**
Weather and Marine Engineering Technologies (WEMET PC, <http://wemetpc.com>),
Alimos, Athens, Greece
- 2014 - present **Research Assistant**
Atmospheric Modeling & Weather Forecasting Group, University of Athens, University
Campus, Physics Building V, 15784 Athens (Greece, <https://forecast.uoa.gr>)
- 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, GRIB1/2, NetCDF

Atmospheric & Wave 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 13)

- **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 34)

- **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 an early warning and flood system for the "National Center for Meteorology" of the Kingdom of Saudi Arabia (2024-2025)
- DESTINATION EARTH USE CASES - DESP USE CASES and APPLICATIONS - ROUND 2 (YEAR 2024), Destination Renewable Energy (DRE), Contract no. 4000140320/23/I-NS under the European Space Agency
- DESTINATION EARTH USE CASES - DESP USE CASES - ROUND 1 (YEAR 2023), Contract no. 4000140320/23/I-NS under the European Space Agency
- CO-PROTECT – Cluster of Interoperable and holistic civil protection systems. Weather forecasting and relevant applications for supporting civil protection systems.
- Operational support and management for the "National Center for Meteorology" of the Kingdom of Saudi Arabia (2022-present) (*Responsible for RAMS, RAMS/ICLAMS system setups*)
- ENI marine forecasts. Weather forecasting for various locations around the world. METEOCEAN DATA SUPPLY for ENI S.p.A., in collaboration with CMCC. Tender reference no. 30057951 (2018-present).
- Renewable energy applications. Weather forecasting and provision of wind power and solar power forecasts for several Greek renewable companies (2015-present).
- Weather and Sea State Forecast (WASSF), forecasting system for environmental applications and engineering operations of Saudi Aramco (2016-present).
- Lessons learned from on-farm to watershed level interventions: out-scaling of community-based watershed management strategies to diverse socio-ecological environment (Agreement ICARDA No 200095, BUS No 200298)
- 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