



ELENI DRAKAKI

PhD candidate in Harokopio University of Athens and research fellow in National Observatory of Athens, studying mineral dust emission and transport and the implications of dust in clouds in atmospheric models. Experienced with WRF-chem model, SKIRON dust transport/weather forecasting modeling system and RAMS/ICLAMS regional model. Well-versed in numerous programming languages including FORTRAN, PYTHON, MATLAB and ncl.

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Research ID:
[ABB-1528-2020](#)

EDUCATION

- **(Sept2010- Feb2014)**
Master of Science:
Environmental Physics and Meteorology – University of Athens (UoA) (delays due to pregnancy and extensive personnel strikes and student squats)
- **(2003-2009)**
Bachelor of Science: Physics – University of Athens (UoA)

Languages

English – C2

Experience

- PhD candidate – Research Fellow in National Observatory of Athens** 2019 to present
 - WRF – Chem to investigate dust emission and transport processes.
- Full time Mummy** 2017 to 2019
 - Pregnancy and postpartum period
- Research Assistant in AM&WF Group of University of Athens** 2015 to 2017
 - In charge of SKIRON daily operation.
 - Implementation of a module for wind gust estimation in SKIRON source code.
 - Investigation of aerosol cloud interactions using RAMS/ICLAMS regional atmospheric model.
- Physics and Chemistry Professor** 2003 to 2015
 - Professor in high school educational level for private organizations.

Publications

- Mallios A. S., **Drakaki E.**, Amiridis V., "Effects of dust particle sphericity and orientation on their gravitational settling in the earth's atmosphere", *Journal of Aerosol Science*, Volume 150, 2020, 105634, ISSN 0021-8502, <https://doi.org/10.1016/j.jaerosci.2020.105634>.
- Patlakas P., **Drakaki E.**, Galanis G., Spyrou C., Kallos G.: "Wind gust estimation by combining a numerical weather prediction model and statistical post-processing", accepted in *Energy Procedia*, 2017.
- **Drakaki E.**, Solomos S., Spyrou C., Kushta J., Kallos G. (2018) Highly Hygroscopic Particulate in Cloud Environment. In: Mensink C., Kallos G. (eds) *Air Pollution Modeling and its Application XXV*. ITM 2016. Springer Proceedings in Complexity. Springer, Cham. https://doi.org/10.1007/978-3-319-57645-9_90
- Kallos G., Nenes A., Patlakas P., **Drakaki E.**, Koukoulas M., Rosenfeld D., Mihalopoulos N. (2018) Aerosols in the Mediterranean Region and Their Role in Cloud Formation. In: Mensink C., Kallos G. (eds) *Air Pollution Modeling and its Application XXV*. ITM 2016. Springer Proceedings in Complexity. Springer, Cham. https://doi.org/10.1007/978-3-319-57645-9_86
- Patlakas P., Kushta J., **Drakaki E.**, Qahtani J. Al, Alexiou I., Bartsotas N., Spyrou C., Kallos G. (2018) The Dust Cycle in the Arabian Peninsula and Its Role in the Urban Air Quality. In: Mensink C., Kallos G. (eds) *Air Pollution Modeling and its Application XXV*. ITM 2016. Springer Proceedings in Complexity. Springer, Cham. https://doi.org/10.1007/978-3-319-57645-9_80