

# Curriculum Vitae

## Ariadni Gavriil

### Contact

National & Kapodistrian University of Athens, Department of Physics, Division of Environmental Physics and Meteorology

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### Work experience

**September 2019-present:** Research scientist in Atmospheric Modeling and Weather Forecasting Group- AM&WFG, National & Kapodistrian University of Athens, Department of Physics, Division of Environmental Physics and Meteorology

**September 2018-August 2019:** Research fellow in THESPIA II research project, National Observatory of Athens, Institute for Environmental Research and Sustainable Development (NOA/IERSD)

**May-July 2015:** Internship, Hellenic National Meteorological Service (HNMS) of Greece

### Education

#### MSc Environmental Physics

National and Kapodistrian University of Athens, Department of Physics, Division of Environmental Physics and Meteorology, February 2019

**Thesis:** “ Study of the energy consumption over Attica in relation to the synoptic scale atmospheric circulation”

#### BSc & MSc School of Applied Mathematical and Physical Sciences

National Technical University of Athens, February 2017

**Thesis:** “Statistic processing of meteorological data to acquire cloud parameters with the synergy of remote sensing technics, LIDAR and radiosondes data”

### Languages

Greek: native

English: Proficiency of Michigan C2

German: Grundstufe Goethe B1

## Computer and programming skills

Operating systems: Windows, Linux/Unix

Programming: Bash scripting, MATLAB, Fortran, Java

Statistical Packages/Tools: MATLAB, Mathematica, SPSS

Data visualization: MATLAB, NCL

NWP models: SKIRON

Data handling: processing large data sets, GRIB data

Microsoft Office: word, excel, internet, power point, command line

## Fields of Scientific Activities

Atmospheric Modeling and Weather Forecasting

Statistical analysis of environmental parameters

Numerical analysis, meteorology, climatology

## Participation in Scientific Projects

Development of Atmospheric and Wave models and their Application for simulations in Europe and the Middle East (AM&WFG)

IRPWIND-FD Integrated Research Programme on Wind Energy- Further Development (AM&WFG)

THESPIA (acronym) for establishment of cooperative, integrated methodologies and equipment for monitoring, managing and forecasting environmental parameters and pressure (NOA/IERSD)

## Summer school/Conferences

**July 2-6, 2018:** Sapienza University, Rome, Italy, Physics Department, Summer School Conference, Solar Radiation Based Established Techniques For Atmospheric Observations, SORBETTO

**October 15-17, 2018:** 14th International Conference on Meteorology Climatology and Atmospheric Physics (COMECAP), Alexandroupolis, Greece

## Publications

- Patlakas, P., Stathopoulos, C., **Gavriil, A.**, Galanis, G., Kallos, G. “Wind energy potential assessment in western Mediterranean”. EGU General Assembly 2020, Online | 4–8 May 2020
  - Kambezidis, H.D., Psiloglou, B.E., Kaskaoutis, D.G., Karagiannis, D., Petrinoli, K., **Gavriil, A.** & Kavadias, K. (2020). Generation of typical meteorological years for 33 locations in Greece: adaptation to the needs of various applications. Theoretical and Applied Climatology, <https://doi.org/10.1007/s00704-020-03264-7>
  - Kaskaoutis, D.G., Dumka, U.C., Rashki, A., Psiloglou, B.E., **Gavriil, A.**, Mofidi, A., Petrinoli, K., Karagiannis, D & Kambezidis, H.D. (2019). Analysis of intense dust storms over the eastern Mediterranean in March 2018: Impact on radiative forcing and Athens air quality. Atmospheric Environment 209 (2019) 23–39, <https://doi.org/10.1016/j.atmosenv.2019.04.025>
- Congratulated by **Giovanni NASA**, quoted in Giovanni Image Hall of Fame and in Giovanni News Quarter 2 2019
- Kaskaoutis, D.G., Rashki, A., Dumka, U.C., Mofidi, A., Kambezidis, H.D., Psiloglou, B.E., Karagiannis, D., Petrinoli, K. & **Gavriil, A.** (2018). Atmospheric dynamics associated with exceptionally dusty conditions over the eastern Mediterranean and Greece in March 2018. Atmospheric Research 218 (2019) 269–284, <https://doi.org/10.1016/j.atmosres.2018.12.009>
  - **Gavriil, A.**, Georgakaki, P., Granakis, K., Lalos, K., Lamprinidou, S., Mylonaki, M., Papanikolaou, C., Tsikoudi, I., Foskinis, R. & Giannakaki, E. (2018, Oct 15-17). Study of the air quality levels for a 10-year-period in the greater Athens area. Poster presented at 14th International Conference on Meteorology Climatology and Atmospheric Physics (COMECAP), Alexandroupolis, Greece