

Maria Kalimeri, PhD

Machine Learning Engineer

@Elisa Plc.

Phone: +358 408362066

personal e-mail: mkalime@gmail.com,

Personal Info: Born on May 11, 1983 in Athens, Greece

Links: [Personal webpage](#), [Researchgate](#), [LinkedIn](#), [Github](#)



Work experience

- Feb 2022- Machine Learning Engineer at [Elisa Plc.](#), Development and productionization of ML & AI models for consumer customer business (focusing on product recommendation engines and operational efficiency models using both classical and LLM-based approaches).
- 2021-2022 Data scientist at [Unikie Ltd.](#), Sensor data engineering unit; DNNs, optimization, failure prediction, and computer vision.
- 2017-2021 Senior data scientist at [Nightingale Health Ltd.](#); Epidemiological risk model development and productization, data analysis software development (either for production, internal use or open source), data mining, reporting and data visualization.
- 2014-2017 Post-doctoral researcher in [Ilpo Vattulainen's group](#); Conducting scientific research with focus on understanding the lipid regulation of actin- binding proteins via computer simulations (hands-on from design, implementation, analysis and scientific publication writing); strong collaboration with experimental group, other responsibilities included master theses supervision, occasional lecturing and teaching assistance.
Tampere University of Technology, Department of Physics, Tampere, Finland
- 2011-2014 Doctoral researcher in [Fabio Sterpone's group](#); Conducting scientific research with focus on examining the correlation between protein mechanical flexibility and thermal stability using molecular simulations. Using both classical and coarse-grained modelling, employing both brute force and enhanced sampling techniques, implementing various unsupervised machine learning techniques for trajectory analysis.
[Laboratoire de Biochimie Théorique, IBPC, CNRS](#), Paris, France
- 2010-2014 Research assistance in quantitative linguistics group coordinated by [Dr. Vassilios Constantoudis](#) and [Dr. Harris Papageorgiou](#); Natural language processing. Extracting universal language- and genre- characteristics from written texts.
National Technical University of Athens, School of Applied Mathematical and Physical Science, Athens, Greece
- 2007-2010 Research assistance in [Prof. Konstantinos Eftaxias' group](#); Analysis and characterization of pre-seismic signals and signals from other catastrophic phenomena, such as epileptic seizures and magnetic storms, using information theory and other time series analysis tools.
[National and Kapodistrian University of Athens](#), Department of Physics, Section of Solid State Physics, Athens, Greece

Education

- Ph.D. in computational biophysics (2014) [Université Paris Diderot & CNRS](#), Paris
(Thesis manuscript)

- M.Sc. in **Mathematical Modelling in Modern Technologies and Financial Engineering**, (2011)
School of Applied Mathematical and Physical Science, National Technical University of Athens
Graduation grade: 8.39/10
- **Bioinformatics Specialization** by University of California, San Diego on Coursera, (2017)
- B.Sc. in Physics, **National and Kapodistrian University of Athens** (2009)

Specialized courses are listed [here](#)

Teaching experience

- 2016 Statistical Physics, Master level, teaching assistant
Tampere Univ. of Technology, Department of Physics, Finland (*one spring period*)
- 2011 Design and development of computer applications (Java lab), first year undergraduate level, teaching assistant
School of Applied Mathematical and Physical Science, Nat. Tech. Univ. of Athens (*one spring semester*)
- 2009-2011 Electromagnetism lab, second year undergraduate, teaching assistant
Faculty of Physics, Univ. of Athens (*two fall semesters*)
- 2009-2011 Waves and Optics lab, second year undergraduate, teaching assistant
Faculty of Physics, Univ. of Athens (*two spring semesters*)
- 2009-2011 Tutoring high-school students in Physics and Mathematics, self-employed in Athens, Greece

Languages

- Greek (native)
- English (full professional proficiency)
- Finnish (limited working proficiency)
- French (limited working proficiency)

Publications

A full list of publications can be found here <https://maria.rbind.io/files/publications.pdf>

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