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Military obligations: Fulfilled.

SUMMARY

My research areas of focus are network graph theory, machine learning, data science and cancer research. I have experience in network graph clustering, which includes building end-to-end machine learning pipelines, data curation, graph modeling, coding and testing. My work is implemented using Python and R. I have been instructing graduate students for 5 years, allowing me to further look into a plethora of mathematical fields and Python-based projects.

EDUCATION

- 2024-present **PhD in Bioinformatics**,
Thesis: "Cancer driver gene identification using machine learning"
Mathematics Research Center, Academy of Athens
Medical School of Athens, National and Kapodistrian University of Athens, Greece
- 2022 **MS in Applied Mathematics**, National and Kapodistrian University of Athens, Greece
Dissertation: "Network Graphs of Cancer Mutations"
(<https://pergamos.lib.uoa.gr/uoa/dl/object/3237319>)
- 2020 **BS in Mathematics** National and Kapodistrian University of Athens, Greece

FOREIGN LANGUAGES

- 2013 **English**, level C2, ECPE, University of Michigan
- 2012 **Italian**, level B1, National Foreign Language Exam System

EMPLOYMENT

- 2020-present **Online Tutoring**, self-employed
- 2015-2021 **Ballroom Dance Instructor**, The Dance Club, Greece

PRESENTATIONS

- 06/2024 *Principles of Machine Learning (presented at the Medical School of Athens, National and Kapodistrian University of Greece)*

TEACHING EXPERIENCE

- 2020-present Online tutoring in graduate students from Greece and abroad. Examples of fields of teaching include: Python programming, machine learning algorithms, linear algebra, probabilities, statistics, stochastic processes, calculus and linear programming.

LIST OF PROJECTS (Last Updated 04/03/2024)

PEER REVIEWED PAPERS

First Author

1. **S. Choudalakis**, G. A. Kastis, and N. Dikaios, "Intra-clustering analysis reveals tissue-specific mutational patterns".
(<https://doi.org/10.1016/j.cmpb.2025.108681>)

Co-Author

2. **S. Choudalakis**, M. Mitrouli, A. Polychronou, and P. Roupa, "Solving high-dimensional problems in statistical modelling: a comparative study," Mathematics, vol. 9, no. 15, p. 1806, 2021.
(<https://doi.org/10.3390/math9151806>)