Stamatis Choudalakis, Ms.C (University of Athens).

PhD candidate in Medical School, National and Kapodistrian University of Athens, Greece.
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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 leaning algorithms, linear algebra, probabilities, statistics, stochastic processes, calculus and linear programming.

LIST OF PROJECTS (Last Updated 24/06/2024)

PEER REVIEWED PAPERS

First Author

1. **(Pre-print) S. Choudalakis**, G. A. Kastis, and N. Dikaios, "Intra-clustering analysis reveals tissue-specific mutational patterns".
(https://www.biorxiv.org/content/10.1101/2024.02.26.582027v4)

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)