

GEORGE PANAGOPOULOS

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Experience

- **University of Luxembourg**, Postdoctoral Scientist, Luxembourg (01.2024 - Current)
 - Treatment effect prediction with semi-supervised learning.
 - Gene regulatory network inference from clinical experiments.
 - Active learning for efficient screening in molecular databases.
- **Amazon**, Applied Scientist, Luxembourg (04.2022 - 06.2023)
 - Machine learning for optimization (internship), operations research (FTE)
- **Ecole Polytechnique Informatics Laboratory (LIX)**, RA/TA, Paris, France (06.2018 - 03.2022)
 - Graph learning for epidemiological forecasting and containment
 - Data mining from bibliographical networks, medical ontologies and legal documents
- **University of Houston, Computational Physiology Lab**, RA/TA, Houston, TX (08.2016 - 05.2018)
 - Forecasting and casual inference on physiological multimodal data from randomized control trials
- **National Center for Scientific Research Demokritos**, Research Assistant, Athens, Greece (08.2014 - 07.2016)
 - Brain computer interface tutorials and EEG analysis for sleep experiments

Education

- **Ph.D. in Computer Science**, Ecole Polytechnique, Paris, France (01.2019 - 03.2022)
- **Ms. in Computer Science**, University of Houston, Houston, TX (08.2016 - 05.2018)
- **Bsc. in Informatics and Telematics**, Harokopio University of Athens, Greece (09.2010 - 07.2014)

Selected Publications

1. G. Panagopoulos, N. Tziortziotis, F. Malliaros, M. Vazirgiannis. *"Learning Graph Representations for Influence Maximization"* *Advances in Social Networks Analysis and Mining (ASONAM)*, 2023
2. C. Kosma, G. Nikolentzos, G. Panagopoulos, J.M. Steyaert, M. Vazirgiannis. *"Neural Ordinary Differential Equations for Modeling Epidemic Spreading"*, in **Transactions on Machine Learning Research**, 2023
3. B. Rozemberczki, P. Scherer, Y. He, G. Panagopoulos, M. Astefanoaei, O. Kiss, F. Beres, N. Collignon, R. Sarkar. *"PyTorch Geometric Temporal: Spatiotemporal Signal Processing with Neural Machine Learning Models"*. in Conference on Information and Knowledge Management (**CIKM resource track**), 2021
4. G. Panagopoulos, G. Nikolentzos, M. Vazirgiannis. *"Transfer Graph Neural Networks for Pandemic Forecasting"*, in AAI Conference on Artificial intelligence (**AAAI**), 2021
5. G. Panagopoulos, F. Malliaros, M. Vazirgiannis. *"Multi-task Learning for Influence Estimation and Maximization"*, in **IEEE Transactions of Knowledge and Data Engineering**, 2020, 10.1109/TKDE.2020.3040028
6. G. Panagopoulos, I. Pavlidis. *"Forecasting Markers of Habitual Driving Behaviors Associated with Crash Risk"* **IEEE Transactions of Intelligent Transportation Systems**, 2019
7. I. Pavlidis, D. Zavlin, A. Khatri, A. Wesley, G. Panagopoulos, and A. Echo. *"Absence of Stressful Conditions Accelerates Dexterous Skill Acquisition in Surgery"* **Nature Scientific Reports** 9.1 2019:1747
8. G. Panagopoulos. *"A Review of Network Inference Techniques for Neural Activation Time Series"*, Network Science (**NetSci**). Paris, France, June 11-15, 2018
9. G. Panagopoulos. *"Multi-Task Learning for Commercial Brain Computer Interfaces"*, in Proc. of IEEE Bioinformatics and BioEngineering (**BIBE**), Washington DC, USA, October 23-25, 2017

Technical Skills

- Coding: Python (advanced), Java (intermediate), Scala, C++ (basic)
- Machine Learning: PyTorch, PyG (advanced), JAX, Tensorflow (intermediate)
- Statistics & optimization: R (advanced), Matlab, XPRESS (intermediate), Julia, CVXPY (basic)
- Databases: MySQL, PostgreSQL (advanced), AWS ETL (intermediate), Spark, MongoDB, Hadoop (basic)

References

- Michalis Vazirgiannis (ex-supervisor): mvazirg@lix.polytechnique.fr, Fragkiskos Malliaros (ex-cosupervisor): fragkiskos.me@gmail.com
- Georgios Paschos (ex-director): paschosg@amazon.com, Nikolaos Liakopoulos (ex-manager): nliako@amazon.com, Ioannis Pavlidis (ex-supervisor): ipavliidi@central.uh.edu