Christos Gkartzios

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Education

University of Ioannina	Greece
*Ph.D. Candidate in Data Science	Fairness, Graph Mining, Temporal Graphs*	*2022–Present*

Research Focus: Future temporal queries, shortest paths, and fairness in network analysis.

M.Sc. in Data Science and Engineering	*2022*
Diploma in Computer Science and Engineering (Integrated M.Sc.)	*2021*

Research and Teaching Experience

University of Ioannina	Greece
Researcher, Themis	*2025*

○ Designed and evaluated fairness-aware algorithms for community detection, ranking, and network formation.

Researcher, GraphTempo   *2022–2023*

○ Developed algorithms for future temporal shortest path queries.
○ Applied graph embeddings and machine learning models for predictive path queries.

Teaching Assistant, Database Lab   *2022–Present*

○ Assisted in teaching SQL, database design, and indexing for the course MYY701 Database Systems.

Teaching Assistant, Operating Systems Lab   *2021–2022*

○ Conducted remedial teaching on Operating Systems topics, including memory management and deadlocks.

Publications

Full publication list available at my personal webpage

2025: **Modeling Network Formation with LLM Agents: The Role of Demographics and Personality**, AI4CSS @ ICDM 2025.

Christos Gkartzios, Evaggelia Pitoura, Panayiotis Tsaparas. Preprint available at: `https://gartzis.github.io/assets/Papers/ai4css-2025.pdf`

2025: **Modularity-Fair Deep Community Detection**, IEEE International Conference on Data Mining (ICDM) 2025.

Christos Gkartzios, Evaggelia Pitoura, Panayiotis Tsaparas. Preprint available at: `https://gartzis.github.io/assets/Papers/icdm-2025.pdf`. Code: `https://github.com/gartzis/Modularity-Fair-Deep-Community-Detection`

2025: **Fair Network Communities through Group Modularity**, The ACM Web Conference (WWW) 2025.

Christos Gkartzios, Evaggelia Pitoura, Panayiotis Tsaparas. Available at: `https://dl.acm.org/doi/10.1145/3696410.3714625`. Code: `https://github.com/gartzis/Fair-Network-Communities-through-Group-Modularity`

2023: **Future-Time Temporal Path Queries**, GRADES-NDA @ SIGMOD 2023.

Christos Gkartzios, Evaggelia Pitoura. Available at: `https://dl.acm.org/doi/10.1145/3594778.3594879`

2022: **Predictive Temporal Path Queries**, Master's Thesis, University of Ioannina.
Available at: `https://www.cse.uoi.gr/wp-content/uploads/publications/MT-2022-16.pdf`
2022: **Predicting the Length of Future Temporal Paths**, 4th Summit on Gender Equality in Computing (GEC'22) 2022.
Christos Gkartzios, Evaggelia Pitoura.
2020: **A Study of Homophily in GitHub**, Diploma Thesis, University of Ioannina.

Technical Skills

Programming: Python, SQL, C

ML Frameworks: PyTorch, TensorFlow

Graph & Data: Neo4j, NetworkX, pandas, NumPy

Visualization: Power BI, Excel, Matplotlib, Seaborn

Industry Experience

Microchip   **Greece**
Network Engineer Intern   *2019*
○ Worked on network optimization and security protocols.

Professional Service

2025–2026: The ACM Web Conference (TheWebConf/WWW) — Social Networks & Social Media track: Program Committee (2026), Reviewer (2025).

Honors and Awards

2024: **H.F.R.I. Scholarship for Ph.D. Candidates**, Hellenic Foundation for Research and Innovation.

Languages

Greek: Native

English: C2 Proficiency (University of Michigan)

French: A2 (DELF)

Personal Interests

Chess: Member of the Association AEK AVAX and PESSOI, Hellenic Chess Federation, since 2009.
Violin: Certified Lower Level Violinist, 2012.
Painting: Winner of 2nd Prize in Tokyo, Japan, 2003.
Volunteer: Active blood donor since 2016.