Nikolaos Kougioulis

Nationality: Greek
Location: Thessaloniki, Greece

Education

Sep 2022 – Nov 2025 — **MSc in Computer Science & Engineering**, *Department of Computer Science, University of Crete*, Greece.
Thesis: *Large Causal Models for Temporal Causal Discovery*
Advisor: Prof. Ioannis Tsamardinos
GPA: 9.50/10.00

Nov 2021 — **Ptychion (BSc) in Mathematics**, *Department of Mathematics, Aristotle University of Thessaloniki*, Greece.
Areas: ▪ Pure Mathematics ▪ Applied Mathematics

Military Service

Military obligations fulfilled.

Professional Experience

Oct 2023 – today — **Research Engineer**, *Foundation for Research & Technology Hellas*, Heraklion, Greece.
Conducting research under public (*HFRI*) and private funding (*Huawei Ireland Research Centre*). Core contributor in a ∼300K Huawei-funded industrial project. Developed SOTA algorithms for causal discovery, root cause analysis and counterfactual reasoning. Implemented and tested proprietary software, successfully applied in real-world scenarios. Exceeded project milestones and acceptance criteria. Collaborated with international teams, delivered biweekly reports and presentations.
Research Areas: ▪ causality ▪ causal discovery ▪ machine learning ▪ deep learning
Skills: ▪ Python ▪ PyTorch ▪ Pandas, NumPy, Scikit-learn ▪ R&D ▪ git ▪ Software engineering ▪ Algorithm design ▪ Technical writing ▪ Scripting

Aug – Oct 2017 — **Data Analyst Intern**, *Psychological Technologies Ltd*, London, United Kingdom.
Successfully extracted, analyzed and presented key wellbeing indicators from real data, collected using the Experience Sampling Method (ESM) via a proprietary mobile app.
Skills: ▪ Data analysis ▪ Data storytelling ▪ R

Publications & Manuscripts

arXiv preprint 2025 — **Temporal Causal-based Simulation for Realistic Time-series Generation**
Nikolaos Gkorgkolis, Nikolaos Kougioulis*, MingXue Wang, Bora Caglayan, Andrea Tonon, Dario Simionato & Ioannis Tsamardinos (arXiv 2506.02084).

MSc Dissertation — **Large Causal Models for Temporal Causal Discovery**
Nikolaos Kougioulis.

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* Authors contributed equally to this work.

Teaching Assistanships

Fall 2022   **CS-100 Introduction to Computer Science**, *University of Crete*, Greece.
Assist. Prof. Polyvios Pratikakis
First year undergraduate course, Department of Computer Science

Spring
2023,24,25   **CS-119 Linear Algebra**, *University of Crete*, Greece.
Prof. Ioannis Tsamardinos
First year undergraduate course, Department of Computer Science

Fall 2023,24   **CS-487 Introduction to Artificial Intelligence**, *University of Crete*, Greece.
Prof. Ioannis Tsamardinos
Final year undergraduate Course, Department of Computer Science

Awards & Distinctions

Jul 2019   **3rd Place Overall in Formula Student ATA 2019**.
Part of the arist.u.r.t.le team, represented Aristotle University of Thessaloniki in international competitions.

Skills

Languages   ▪ English (Proficient) ▪ French (Upper Intermediate) ▪ Greek (Native)

Prog.   Python, JavaScript, C, MySQL, LaTeX

Other   git, vim, Linux, Powerpoint

Last Updated: November 26, 2025