



nkougioulis.com Location: Thessaloniki, Greece Open to relocation/ remote

Nikolaos Kougioulis

Education

Sep 2022 – Nov MSc in Computer Science & Engineering, Department of Computer Science,

2025 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 Univer-

sity of Thessaloniki, Greece.

Areas: • Pure Mathematics • Applied Mathematics

Military Service

Military obligations fulfilled.

Professional Experience

Present Greece.

Oct 2023 - Research Engineer, Foundation for Research & Technology Hellas, Heraklion,

Conducting research under public (HEFRI) 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 • Machine learning • Deep learning

Skills: • Python • PyTorch • Pandas, NumPy, Scikit-learn • git • R&D • 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 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).

^{*} Authors contributed equally to this work.

MSc Large Causal Models for Temporal Causal Discovery

Dissertation Nikolaos Kougioulis.

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 **CS-119 Linear Algebra**, *University of Crete*, Greece.

2023,24,25 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

Tools git, vim, Linux, Powerpoint

Last Updated: December 14, 2025