Nikolaos Fanourakis

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Heraklion, Crete, Greece

PHD CANDIDATE | DATA SCIENTIST

Ph.D. candidate at Computer Science Department of University of Crete, with both academic and industrial working experience in the fields of databases and graph neural networks. Equipped with a theoretical and practical background in graph analytics, machine learning and big data, I can intricate real-world problems and drive data-driven solutions.

SKILLS

- Python
- SQL
- JAVA
- Scala
- Graph Neural Networks
- LLMs
- Pytorch (Geometric)
- Writing/Communication Skills
- Apache Spark
- HTML/CSS/JS
- Graph Theory
- Semantic Web

LANGUAGE SKILLS

- Greek (Mother Language)
- English (B2)
- Italian (B2)

WORK EXPERIENCE

Postgraduate and Doctoral Research Assistant - Data Scientist **Mar 2020 - Present**
Information Systems Laboratory, FORTH - ICS

- Research project related to entity alignment, using knowledge graph embeddings
- Fairness and Diversity

R&D in Benchmarking Team **June 2024 - August 2024**
RelationalAI, Inc, Berkeley (Remote Internship)

- Implementation of benchmarks in PyRel
- Performance analysis

Data Scientist **Mar 2020 - Sept 2020**
ETIS Laboratory, CY Cergy Paris Université (Remote Internship)

- Start of master thesis with title: “Graph Embeddings Methods for Entity Resolution”

Front-End Engineer **Apr 2019 - Sept 2019**
Omnixell

- Web Development for cross-platform applications using Ionic 3
- Angular and Vue.js

Full Stack Web Developer **Jul 2017 - Dec 2018**
Information Systems Laboratory, FORTH - ICS

- Thesis: “Speleothem: An information System for Caves Based in Semantic Web technologies”
- Web Development using HTML/CSS/JS
- Spark microservices
- Ontologies and Triple Stores

EDUCATION

Master in Computer Science
CSD of University of Crete

Bachelor in Computer Science
CSD of University of Crete

PUBLICATIONS

- *Knowledge Graph Embedding Methods for Entity Alignment: Experimental Review. DMKD (2023)*
- *Structural Bias in Knowledge Graphs for the Entity Alignment Task. ESWC 2023*
- *FairER demo: Fairness-Aware and Explainable Entity Resolution. ISWC 2023*
- *Speleothem-An Information System for Caves Based on Semantic Web Technologies. ESWC 2018*