

# Agapi Rissaki

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PhD candidate specializing in explainable AI for relational data, with production research experience at RelationalAI.

## Education

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**PhD Candidate, Computer Science** — *Northeastern University* *Sep 2021 – present*  
Boston, MA

- *Thesis*: Query-Based Explanations for Machine Learning on Structured Data
- *Advisor*: Wolfgang Gatterbauer; *Co-advisor*: Miguel Fuentes-Cabrera
- *GPA*: 4.0/4.0

**Diploma in Electrical & Computer Engineering (BSc & MSc equiv.)** — *NTUA* *Sep 2012 – Jun 2020*  
Athens, Greece

- Grade: 9.08/10 “Excellent” (top 4% of graduating class of 350–400)
- *Thesis*: “Deep Learning Techniques for Inverse Problems”
- *Advisor*: Dimitris Fotakis (CoReLab)

## Research & Professional Experience

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**Research Intern** (*multi-year appointment*) — *RelationalAI* *May 2024 – Apr 2026*  
Remote

- Developed GNN explainability methods for deep learning over relational databases
- Designed multi-agent LLM simulations for automated database schema-to-ontology translation

**PhD Research Assistant** — *DATA Lab, Northeastern University* *Sep 2021 – Apr 2024*  
Boston, MA

- Explainable AI, Graph Machine Learning, and Machine Learning with Logical Constraints

**Visiting Graduate Student** — *UC Berkeley* *Aug – Dec 2023*  
Berkeley, CA

- Simons Institute Program on “Logic and Algorithms in Database Theory and AI”

**Research Intern** — *RelationalAI* *May – Aug 2023*  
Remote

- Explored synergies between knowledge graphs and large language models for intelligent data management

**Research Assistant** — *CoReLab, NTUA* *Sep 2019 – Aug 2021*  
Athens, Greece

- Deep Learning Applications to Astrophysics and Algorithmic Learning Theory

## Teaching

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**Teaching Assistant** — *CoReLab, NTUA* *Sep 2019 – Jun 2021*  
Athens, Greece

- **Algorithms & Complexity** (Fall 2019, Fall 2020); **Discrete Mathematics** (Spring 2020, Spring 2021)
- Designed and graded problem sets for undergraduate core courses. Supported weekly laboratory sessions for 50+ students. Mentored a Master’s student conducting thesis research in algorithmic learning theory.

## Publications

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- A. Rissaki**, I. Fountalis, W. Gatterbauer, B. Kimelfeld. *Database Views as Explanations for Relational Deep Learning. Proceedings of the VLDB Endowment* 19 (2026).
- A. Rissaki**, I. Fountalis, N. Vasiloglou, W. Gatterbauer. *Towards Agentic Schema Refinement. NeurIPS – Table Representation Learning Workshop*, 2024.
- Z. Zombori, **A. Rissaki**, K. Szabó, W. Gatterbauer, M. Benedikt. *Towards Unbiased Exploration in Partial Label Learning. Journal of Machine Learning Research* 25 (2024).
- A. Rissaki**, O. Pavlou, D. Fotakis, V. Papadopoulou, A. Efstathiou. *Reconstructing the Mid-Infrared Spectra of Galaxies Using UV to Submillimeter Photometry and Deep Generative Networks. Astronomy and Computing* 47 (2024).
- A. Rissaki**, B. Scarone, D. Liu, A. Pandey, B. Klein, T. Eliassi-Rad, M. A. Borkin. *BiaScope: Visual Unfairness Diagnosis for Graph Embeddings. IEEE VIS – Visualization in Data Science Symposium (VDS)*, 2022.
- A. Rissaki**, O. Pavlou, D. Fotakis, V. Papadopoulou, A. Efstathiou. *Solving Inverse Problems for Spectral Energy Distributions with Deep Generative Networks. NeurIPS – Machine Learning and Physical Sciences Workshop*, 2020.

## Presentations

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**Talks:** IEEE VIS – Visualization in Data Science Symposium (2022)

**Posters:** NeurIPS – Table Representation Learning Workshop (2024) · CRA-WP Grad Cohort for Women (2023) · North East Database Day, Northeastern University (2023) · Conference on Multiscale Physical and Biological Systems, Paphos (2021) · NeurIPS – ML and Physical Sciences Workshop (2020)

## Skills

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<b>Languages</b>	Python, SQL, Java, C/C++, Bash, L <sup>A</sup> T <sub>E</sub> X
<b>ML &amp; Data</b>	PyTorch, HuggingFace Transformers, Scikit-learn, JAX, Weights & Biases
<b>Explainability</b>	SHAP, LIME, Captum, InterpretML
<b>Graphs &amp; Databases</b>	PyTorch Geometric, DGL, PostgreSQL/SQLite, Snowflake, SPARQL/RDF
<b>LLMs &amp; Agents</b>	LangChain, AutoGen, OpenAI API, Anthropic API, RAG pipelines, Pinecone
<b>Dev &amp; Infra</b>	Git, Docker, GitHub Actions, Linux, HPC clusters, RunPod

## Honors & Awards

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Thomaidio Award for academic publication, NTUA	2020
Thomaidio Award for excellent academic performance, NTUA	2019
International Biology Olympiad, Singapore — represented Greece (team of 4)	2012

## Volunteering & Service

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Faculty Hiring Committee, Khoury College of Computer Sciences, Northeastern	2022–2023
Computer Society Chair, IEEE NTUA Student Branch	2015–2017
Volunteer Tutor, high school mathematics & chemistry, Athens	2013–2014

## Languages

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Greek (native) · English (Cambridge CPE, proficient) · German (Goethe B2, upper-intermediate)