

Samuel García

Doctoral Researcher



Social Networks



LinkedIn



Web (projects and publications)

Languages

- Spanish (native)
- English (CEFR C2)
- French (elementary proficiency)

Technologies

- Main programming languages
 - Python
 - C/C++
 - Java
 - Rust
 - Go
- Familiarity with tools
 - Use of Large Language Models
 - BERT, generative LLMs...
 - Huggingface pipelines, Flair...
 - Machine Learning frameworks
 - pyTorch, scikit-learn...
 - · Data Science and math tools
 - NumPy, Matplotlib, Pandas...
 - NLP tools
 - spaCy, NLTK...
 - Semantic Web tools
 - Knowledge Graphs, Jena, HDT...
 - · Information Retrieval and Big Data
 - Elasticsearch, Lucene, Galago...
 - Use of SQL and SPARQL

About me

Hello! My name is Samuel, and I am currently a doctoral student at Technische Universität München (TUM). I previously studied an BSc. degree in Computer Science from Universidad de Zaragoza and an MSc. degree in Intelligent Interactive Systems at Universitat Pompeu Fabra.

I am very passionate about every aspect of Computer Science, and especially the Semantic Web, Natural Language Processing and Artificial Intelligence fields of study, where I am focusing my research career into.

Work Experience

2023-2024 **Research Internship** **European Commission**

Internship at the Joint Research Centre, in collaboration with Universitat Pompeu Fabra for the 'Reasoning with language and Knowledge Graphs' Master's thesis (Research and development of a system that unifies Large Language Models and Knowledge Graphs for the processing of scientific literature and technical reports from the European Commission).

2022-2023 **Research Collaboration grant**

Universidad de Zaragoza

Research internship at the Distributed Information Systems group (SID) at Universidad de Zaragoza, working on research projects about Semantic and Knowledge Graph-oriented Information Retrieval, Natural Language Processing and Large Language Models.

2022-2022 **Research Internship** Universidad de Zaragoza

Short research internship at the COSMOS group at Universidad de Zaragoza, working on the design, refactoring, validation and deployment of a Petri Net-based distributed simulation engine.

2017-2018

Technical Support Analyst

Epicor Software Slovakia

Member of EMEA's technical support team, in charge of the hybrid cloud infrastructure by offering support server-side (Active Directory, IIS, Microsoft SQL Server) and on the application level (commercial ERP systems).

Education

2024-**Doctoral Researcher** Technische Universität München

Doctoral Student on the Atomic-Scale Understanding and Design of Multifunctional Surfaces project under the supervision of Maribel Acosta. Focusing on Knowledge Graph construction and querying.

2023-2024 MSc. in Intelligent Interactive Systems

Data Science, Artificial Intelligence and NLP.

Universitat Pompeu Fabra

2019-2023 **BSc.** in Computer Science

Specialization in Computing.

Universidad de Zaragoza

2015-2017 **Computer Network Systems Management**

Higher Technician degree.

CPIFP Los Enlaces

Main interests

- Semantic Web
- Natural Language Processing
- Artificial Intelligence

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Publications

Coming soon!

Other qualifications and activities

2023	Language Models course Taught by Jordi Bernad, from the SID group.	Universidad de Zaragoza
2020	Natural Language Processing course Taught by Jorge Gracia, from the SID group.	Universidad de Zaragoza
2016	Aragón skills Competition Representing CPIFP Los Enlaces in the Networ	Aragón Skills k Support category.