



# Samuel García

Doctoral Researcher

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## Social Networks

- LinkedIn
- Github
- 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** Universitat Pompeu Fabra  
Data Science, Artificial Intelligence and NLP.
- 2019-2023 BSc. in Computer Science** Universidad de Zaragoza  
Specialization in Computing.
- 2015-2017 Computer Network Systems Management** CPIFP Los Enlaces  
Higher Technician degree.

## Main interests

- Semantic Web
- Natural Language Processing
- Artificial Intelligence

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## Publications

Coming soon!

## Other qualifications and activities

2023	<b>Language Models course</b> Taught by Jordi Bernad, from the <a href="#">SID</a> group.	<a href="#">Universidad de Zaragoza</a>
2020	<b>Natural Language Processing course</b> Taught by Jorge Gracia, from the <a href="#">SID</a> group.	<a href="#">Universidad de Zaragoza</a>
2016	<b>Aragón skills Competition</b> Representing <a href="#">CPIFP Los Enlaces</a> in the Network Support category.	<a href="#">Aragón Skills</a>