

# Federico Borazio



## CONTACTS

Personal Website: <https://fedbor.github.io/>  
E-mail: [federico.borazio@hotmail.it](mailto:federico.borazio@hotmail.it) – [borazio@ing.uniroma2.it](mailto:borazio@ing.uniroma2.it)  
G.Scholar: <https://scholar.google.com/citations?user=3GISCloAAAAJ&hl=it&oi=sra>  
LinkedIn: <https://www.linkedin.com/in/federico-borazio-953492198/>

## SHORT BIO

**Second-year Ph.D. Student in Data Science** at the *University of Rome Tor Vergata* (<https://datasciencephd.uniroma2.it/>) and active member of the Semantic Analytics Group (<http://sag.art.uniroma2.it/>). My research focuses on Deep Learning and Natural Language Processing, with a special interest in Generative AI, Knowledge Discovery in the medical domain, Knowledge Injection in Large Language Models (LLMs), and Vision-Language Understanding.

## EDUCATIONAL BACKGROUND

**Master's degree, University of Rome, Tor Vergata**

**Macro Area of Science – Department of Enterprise Engineering**

**Computer Science**

**Rome, Italy**  
01/2020-10/2023

Thesis: *"Exploring Neural Foundation Models with Sustainable Methods for Information Extraction in the Medical Domain"*

Final Grade: 110/110 with Honors

## PROFESSIONAL EXPERIENCE

**AI Project Consultant**

**Reveal S.r.l.**

**Rome, Italy**  
2024-present

### PROJECTS

- *"Matchmaking for Innovation"* 2025  
Development of a semantic search engine to match technological and innovative challenges with academic research groups and industry projects.
  - Collaboration with: *Foundation Rome Technopole*
- *"Italian Network of Epidemic Intelligence"* 2024  
Development of new monitoring tools for pandemic events, using Natural Language Processing and Machine Learning techniques for the automatic analysis of online information.
  - Collaboration with: *Italian Public Ministry of Health, and Istituto Superiore di Sanità (ISS)*
- *"Simple Knowledge Organization Systems for the Decommissioning of Nuclear Facilities"* 2024  
Development of semantic search engine in the Context of Knowledge Management for Nuclear Decommissioning.
  - Collaboration with: *International Atomic Energy Agency (IAEA)*

## ACADEMIC ACTIVITIES

### RECENT SCIENTIFIC PUBLICATIONS

- *"Training Multi-Modal LLMs through Dialogue Planning for HRI"*  
CD Hromei, F Borazio et al. - Findings of the Association for Computational Linguistics: ACL 2025, *Wien*
- *"Adapting LLMs for Domain-Specific Retrieval: A Case Study in Nuclear Safety"*,  
F Borazio, D Croce, R Basili - European Conference on Information Retrieval, 2025, *Lucca*
- *"CALAMITA: Challenge the Abilities of Language Models in ITALian"*  
in *Proceedings of the 10th Italian Conference on Computational Linguistics*, 2024, Attanasio et al., *Pisa*
- *"MM-IGLU-IT: Multi-modal Interactive Grounded Language Understanding in Italian"*  
in *International Conference of the Italian Association for Artificial Intelligence*, 2024, Borazio et al., *Bolzano*
- *"Semi-Automatic Topic Discovery and Classification for Epidemic Intelligence via Large Language Models"*  
in *Proceedings of the Second Workshop on Natural Language Processing for Political Sciences*  
@ LREC-COLING 2024, Borazio et al., *Turin*

### TEACHING ASSISTANT

- Deep Learning, Master's Degree Program, *University of Rome Tor Vergata* (2024,2025)
- Fundamentals of Computing, bachelor's degree Program, *University of Rome Tor Vergata* (2024)
- Computer Programming, bachelor's degree Program, *University of Rome Tor Vergata* (2022,2023)

### REGULAR PAPER REVIEWER

- Active reviewer for several venues, including the AIXIA satellite workshops NL4AI, the IJCOL journal, the EMNLP conference, The Web Conference, and CLiC-it conference

### EDUCATIONAL EXPERIENCES

- ESSAI & ACAI 2024 - European Summer School on Artificial Intelligence & Advanced Course on Artificial Intelligence - *National Centre for Scientific Research "Demokritos", Athens*
  - Attendee
- LECTURES 2024 AILC - Lectures on Computational Linguistics - *Università degli Studi di Bari Aldo Moro, Bari*
  - Attendee and Student Session presentation

### OTHER ACTIVITIES

- CALAMITA - Challenge the Abilities of Language Models in ITALian Special event co-located with the Tenth Italian Conference on Computational Linguistics - CLiC-it 2024, *Pisa*
  - Data and Evaluation Team member
- Private Tutoring - Provided freelance tutoring to university students from Tor Vergata and Sapienza in courses related to Management Engineering, Statistics, and Languages in the Information Society, with a focus on Programming, Algorithms and Data Structures, Databases, and Computer Science Fundamentals. – 2018-2021, *Rome*

### LANGUAGES

---

Italian: Native speaker

English: B1 CEFR Certification | Professional proficiency

I authorize the processing of my personal data in accordance with Legislative Decree No. 196 of June 30, 2003.