

DEBORAH DORE

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PhD candidate in NLP. I build and adapt language models, from domain-specific pre-training to retrieval-augmented pipelines, with a focus on reasoning and factual grounding.

EDUCATION

PhD - Artificial Intelligence <i>Université Côte d'Azur, CNRS, INRIA, I3S</i> Research Project: Argument Mining in Political Debates Advisors: S. Villata, E. Cabrio Keywords: NLP Argument Mining Political Debates Research Scholarship: EFELIA scholarship for international mobility	Nov 2024 – Present Nice, France
Master - Computer Science <i>Sapienza Università di Roma</i> . Final Evaluation: 110/110 cum laude, GPA: 4.0 Thesis Project: Argument Representation using Knowledge Graphs Erasmus+ Scholarship: 6-month exchange at Universidade do Porto, Portugal Research Scholarship: 6-month research visit at CNRS, France	Sep 2021 – May 2024 Rome, Italy
Bachelor - Computer Science <i>Università degli Studi di Torino</i> . Final Evaluation: 110/110, GPA: 3.7 Thesis Project: Full-stack access control application with Spring Boot and ReactJS Erasmus+ Scholarship: 6-month exchange at Università Tecnica din Cluj-Napoca, Romania	Sep 2017 – Apr 2021 Turin, Italy

SELECTED PUBLICATIONS

- D. Dore**, G. Damo, E. Cabrio, S. Villata. *Retrieving Relations, Detecting Fallacies: A RAG Approach To Political Debate Analysis*. **Under Review@EACL 2027**
- D. Dore**, E. Cabrio, S. Villata. *RooseBERT: A New Deal For Political Language Modelling*. **WI-IAT 2026**
- P. Goffredo, **D. Dore**, E. Cabrio, S. Villata. *DISPUTool 3.0: Fallacy Detection and Repairing in Argumentative Political Debates*. **ACL 2025**
- D. Dore**, S. Faralli, S. Villata. *Leveraging Graph Structural Knowledge to Improve Argument Relation Prediction in Political Debates*. **ArgMining@ACL 2025**

SELECTED PROJECTS

- FallacyRAG**  [FallacyRAG](#)
Retrieval-augmented fallacy detection and classification in political debates that guides the retrieval strategy with argumentative relations (under review at EACL 2027).
- RooseBERT**  [RooseBERT](#)
Domain-adapted language model for political debates, pretrained on 11GB of debates with multi-GPU training on the Jean Zay HPC cluster. Released four model variants, a sentence encoder, and the RooseDebates corpus on [Hugging Face](#), with 300+ monthly downloads (WI-IAT 2026).
- DispuTOOL**  [DispuTOOL](#)
Transforming my PhD project into a web app to ground my research contributions in real-world usability.

EXPERIENCE

Teaching Assistant

Université Côte d'Azur, Centrale Méditerranée

Nov 2024 – Present

Sophia Antipolis, France

- Designed and delivered university courses in NLP and Data Analysis for 100+ students.
- Built hands-on labs and assessments covering NLP pipelines, NoSQL databases, and data visualization.

Research Intern

CNRS, WIMMICS Team

Sep 2023 – Feb 2024

Sophia Antipolis, France

- Fine-tuned transformer-based models for argument classification on political debate corpora, pushing state-of-the-art performance by +4% F1.
- Built and evaluated NLP pipelines for relation extraction using Knowledge Graphs and LLMs.

Software Developer

Certimeter Group (Lutech), client: Blue Reply

Sep 2020 – Aug 2021

Turin, Italy

- Designed and deployed 50+ production microservices in Spring Boot and Docker, migrating legacy monolithic systems as part of a large-scale enterprise modernization initiative.
- Built real-time data ingestion pipelines using Apache Kafka at scale.
- Developed full-stack applications with Spring Boot and ReactJS (internship, Sep 2020 – Jan 2021).

SERVICE & OUTREACH

Reviewer: ACL, AAI, EACL, ESWC, ISWC, IJCAI

Seminar Organizer

3IA Côte d'Azur - Interdisciplinary Institute for Artificial Intelligence

Aug 2025 – Sep 2026

Nice, France

Volunteer

Association for Computational Linguistics (ACL 2025)

Jul 2025 – Aug 2025

Vienna, Austria

Student Representative

Fondazione Collegio Universitario Einaudi

Sep 2020 – Aug 2021

Turin, Italy

SKILLS

Languages & Programming: Python, Java, JavaScript, SQL, R, C

ML & NLP: PyTorch, TensorFlow, HuggingFace Transformers, LangChain

Data & Engineering: PySpark, Apache Kafka, Spring Boot, ReactJS

DevOps & Cloud: Docker, AWS, Git

HPC: SLURM, multi-GPU training, Jean Zay

Databases: SQL, MongoDB, ChromaDB

Languages: Italian (native), English (C1 — IELTS 7.5), French (B2)

