

Elena PALMIERI

PERSONAL INFORMATION

- **Place of Birth:** Bologna, Italy
- **Date of Birth:** 09 Nov 1995
- **Residence Address:** Via Misa, 27, 40139, Bologna, Italy
- **Identity Document:** Identity Card (CA35927HP)
- **Phone:** +39 339 6549657
- **Institutional email:** e.palmieri@unibo.it
- **Institutional website:** <https://www.unibo.it/sitoweb/e.palmieri/en>
- **Research group website:** <https://site.unibo.it/nlp/en>

SHORT BIO

I am currently a PhD student mainly working on Text Document Classification. In particular, my research focuses on zero-shot and few-shot classification techniques combined with knowledge injection. The classification is single-label on data from Regione Emilia-Romagna, and multi-label on data that concerns the Sustainable Development Goals. I also contributed to the development of an argumentative chatbot for a micro-project that is part of the HumaneAI project. From April 2021 to October 2022, I have been working with the Natural Language Processing team of the University of Bologna as a Research Fellow, mainly on the topics of Outcome Prediction and Argument Mining. I was involved in the LAILA project, a national PRIN for legal analytics in the context of the Italian law, and I have also worked on the ADELE project, which is a multilingual project founded by the European Union's Justice Programme.

ACADEMIC EXPERIENCE

- **PhD Student** University of Bologna
Computer Science nad Engineering November 2022 - November 2025
My work focuses on the classification of text documents utilizing zero or few shot learning techniques combined with knowledge injection. I am currently working with Regione Emilia-Romagna and I am also involved in a project for the automatic detection of Sustainable Development Goals in articles and web pages.
- **Research Fellow** University of Bologna
Alma Mater Research Institute for Human-Centered Artificial Intelligence (Alma AI) April 2021 - October 2022
Research assistant within the LAILA project, a national PRIN project whose objective is to develop machine learning and natural language processing methods for legal analytics in the context of the Italian law.
- **Teaching Tutor** University of Bologna
Foundations of Informatics T1. Prof: Paola Mello, Federico Chesani October 2021 - July 2025
Teaching tutor for the Foundation of Informatics course held by prof. Paola Mello and prof. Federico Chesani. I am involved in the providing assistance to students during the practical lessons and in the supervision of the exams. Since October 2022 I have also started a weekly, two-hour long, online Q&A session with the students.
Real Time Systems and Programming for Automation M. Prof: Paolo Torroni October 2024 - July 2025
Teaching tutor for the Real Time Systems and Programming for Automation course held by prof. Paolo Torroni. I mainly provide assistance to the students in the lab and via email.
Languages and Algorithms for Artificial Intelligence. Prof: Maurizio Gabbrielli November 2022 - July 2024
Teaching tutor for the second module of the Languages and Algorithms for Artificial Intelligence course held by prof. Maurizio Gabbrielli. I do training sessions on Logic Programming and Prolog in the classroom and exam supervision.

PUBLICATIONS

- **A Chatbot for Asylum-Seeking Migrants in Europe:** ICTAI 2024, 2024. Authors: Bettina Fazzinga, Elena Palmieri, Margherita Vestoso, Luca Bolognini, Andrea Galassi, Filippo Furfaro, Paolo Torroni
- **AMELIA - Argument Mining Evaluation on Legal documents in Italian: A CALAMITA Challenge:** CLiC-it 2024: Tenth Italian Conference on Computational Linguistics, 2024. Authors: Giulia Grundler, Andrea Galassi, Piera Santin, Alessia Fidelangeli, Federico Galli, Elena Palmieri, Francesca Lagioia, Giovanni Sartor and Paolo Torroni
- **Argumentation Structure Prediction in CJEU Decisions on Fiscal State Aid:** ICAIL 2023. Authors: Piera Santin, Giulia Grundler, Andrea Galassi, Federico Galli, Francesca Lagioia, Elena Palmieri, Federico Ruggeri, Giovanni Sartor and Paolo Torroni
- **Discovering Business Processes models expressed as DNF or CNF formulae of Declare constraints:** CILC 2022. Authors: Federico Chesani, Chiara Di Francescomarino, Chiara Ghidini, Daniela Loreti, Fabrizio Maria Maggi, Paola Mello, Marco Montali, Elena Palmieri and Sergio Tessaris
- **Detecting Arguments in CJEU Decisions on Fiscal State Aid:** COLING 2022, 9th Workshop on Argument Mining. Authors: Giulia Grundler, Piera Santin, Andrea Galassi, Federico Galli, Francesco Godano, Francesca Lagioia, Elena Palmieri, Federico Ruggeri, Giovanni Sartor and Paolo Torroni
- **Predicting outcomes of Italian VAT decisions:** Jurix 2022. Authors: Federico Galli, Giulia Grundler, Alessia Fidelangeli, Andrea Galassi, Francesca Lagioia, Elena Palmieri, Federico Ruggeri, Giovanni Sartor and Paolo Torroni

EDUCATION

- **Master Degree in Computer Engineering** University of Bologna
Final grade: 110/110 with honors March 2021
Thesis: LEARNING DECLARATIVE PROCESS MODELS FROM POSITIVE AND NEGATIVE TRACES. Advisors: Federico Chesani, Paola Mello and Daniela Loreti
- **Bachelor Degree in Computer Engineering** University of Bologna
Final grade: 107/110 October 2018
Thesis (translated title): EXTENSION OF THE FRAMEWORK THE SCENARIOS OF THE HABITAT PROJECT FOR THE SUPPORT OF THREE-DIMENSIONAL INFORMATION ABOUT THE USER. Advisors: Federico Chesani and Daniela Loreti

LANGUAGES

- **Italian:** Native speaker
- **English:** Advanced (C1 IELTS Academic certification, British Council, score 8.0/9.0. 01 February 2020)
- **Spanish:** Upper Intermediate
- **French:** Lower Intermediate