

Chiara D'Ercoli

MSc Computer Science (Intelligent Systems) student at Trinity College Dublin.

SKILLS

IT	Machine learning, Python (PyTorch, Scikit-learn, TensorFlow), Java (University projects); data analysis, trends identification and statistics; SQL (University project), algorithms, HTML, JavaScript, and React Native.
Languages	English (fluent), Italian (mother tongue), German (working knowledge).
Other	Research, data analysis using machine learning techniques and statistical analysis. Quick learner, intellectually curious, motivated, and precise. Teamwork, clear communication, proactivity.

EDUCATION

<i>Sept. 2023 - present</i>	Master of Science in Computer Science, Trinity College Dublin
Details	Intelligent systems strand. Expected graduation ceremony date: April 2024.
Relevant subjects	Machine Learning, Artificial Intelligence, Data Analytics, Advanced Software Engineering, Information Retrieval, Knowledge Engineering, NLP and LLMs.
Dissertation Project	Machine learning analyses on multimodal language models applied to neurophysiology (EEG), including the usage of CLIP and BERT, to investigate the neural representation of semantic information. Deep involvement in the Di Liberto Lab (https://www.diliberto.net/).
<i>Sept. 2020 - July 2023</i>	Bachelor in Informatics and Management of Digital Business, Free University of Bolzano, Italy
Details	L-31 (Degree in Computer Science), with minor in management and digital finance. The degree was taught in three languages: Italian, German, English. Final grade: 108/110.
Relevant subjects	Machine Learning, Data Mining, Linear Algebra, Calculus, Probability Theory and Statistics, Databases, Java Programming, Agile Methods, Financial Markets, Accounting.
Final Thesis	Classification-biased Regression for the Prediction of Alzheimer's Disease. Application of machine learning techniques on brain data (MRI scans). Data-driven prediction and early detection of Alzheimer's disease (Python, KNIME).
<i>textbf</i> <i>April-Sept. 2022</i>	Erasmus Semester, Friederich Alexander Universität, Erlangen Nürnberg, Germany
<i>2014 - 2020</i>	Scientific High School Diploma, Liceo Scientifico B. Rosetti, San Benedetto del Tronto, Italy
<i>2018 - 2019</i>	Exchange Year, Fort Zumwalt North High, O'Fallon (MO) USA

EMPLOYMENT HISTORY & WORK EXPERIENCE

March 2025 - onwards	Research fellow at the University of Rome, La Sapienza, Rome (Italy)
Details	Research fellowship at the RSTLess lab, part of the DIAG (Department of computer, automation and management engineering) at La Sapienza University. Research assistant roles and contribution to lab projects (bursary). Lab's research interests: deep learning, information retrieval, graph neural networks and natural language processing.
Sept 2024 - March 2025	Internship at Alveria srl, Rome (Italy)
Details	Intern of the data science team, developing AI solutions (RAG, information retrieval, transformers) for HR tools. Main tasks: development and research in machine learning, RAG (retrieve and generate) architecture and natural language processing, model fine-tuning.
March 2023 - Sept 2024	Customer Care Team, Open Data Hub, NOI Techpark, Bolzano, Italy
Details	Ticketing system handling for the Open Data Hub, providing data to customers. Main tasks: debugging, issue tracking, and minor software development tasks.
Dec. 2022 - Jan. 2023	Technical Internship at Markas SRL
Details	Curricular internship in the IT Office, in the Innovation and Digitalization departments. Main tasks: Robotic Process Automation research, investigation of alternative technologies, automation documentation, IT training, and innovation communication in the organization.
Other jobs	Receptionist - Hotel Royal, San Benedetto del Tronto (2019) Sales Assistant and Social Media - Cantine D'Ercoli Winery Theatre Attendant - Teatro Stabile di Bolzano (2021-2022)

EXTRA-CURRICULAR ACTIVITIES

Sept. 2023 - June 2024	Trinity VDP - Saint Vincent De Paul
	Irish volunteering and charity association. Fundraising, kids and vulnerable adults activities, street outreach.
Sept. 2023 - June 2024	DUCSS - Dublin University Computer Science Society
	Weekly tech events and talks at Trinity College Dublin.
Sept. 2022 - Sept. 2024	Volunteer, Italian Red Cross
Feb. 2023	Snowdays - IT Team Member, Free University of Bolzano
	Team member of the IT Team, developing the website and app for the event "Snowdays", at Free University of Bozen. Communication with other teams (analytical reports, database/website design).
Sept. 2022 - Sept. 2023	Computer Science Faculty Representative, Free University of Bolzano, Italy
Feb. 2022	Volunteer, World Wide Friends - Iceland
	Beach cleaning and house restoration in the West Fjords in Iceland.