Sonia Nicoletti

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EDUCATION

Max Planck Institute for Software Systems Saarbrücken, Germany
PhD in Computer Science - CS@max planck program Sep 2025 – Present

University of Bologna Bologna, Italy
Master's Degree in Computer Science Sep 2022 – Dec 2024

- **Final Grade:** 110/110 cum laude (First Class Honours)
- **Thesis:** "LLMs and Essence: Developing a Chatbot to Support Software Engineering"

National Taiwan University Taipei, Taiwan
Study Abroad Program Aug 2023 – Dec 2023

Drexel University Philadelphia, USA
Study Abroad Program Sep 2022 – Dec 2022

University of Bologna Bologna, Italy
Bachelor's Degree in Computer Science for Management Sep 2019 – Jul 2022

- **Final Grade:** 110/110 cum laude (First Class Honours)
- **Thesis:** "Emerging business models in Web 3.0"

WORKING EXPERIENCE

University of Bologna Bologna, Italy
Tutor & Research assistant Mar 2025 – Aug 2025

- Developed an LLM-powered chatbot to support students in learning Essence and software engineering practices.
- Conducted research on integrating LLMs into the software development process and software engineering education.
- Delivered a lecture and co-authored a student guide on Essence.
- Assisted in student project evaluation and co-supervised a thesis project.

Cooki srl Bologna, Italy
Full-stack web developer intern Jan 2022 – Feb 2022

- Improved the database structure (ER model) of the web application resulting in faster queries of user tables.
- Developed a new JavaScript front-end feature in the web app (generating food labels based on database entries).
- Conducted analysis of requirements and designed pages of a new mobile app based on existing features of the company's web app using Figma.

Agenda Digitale dell'Emilia-Romagna Bologna, Italy
Digital Tutor Dec 2016 – Feb 2017

- Tutored participants of the digitization project "Pane e Internet" which included minorities at risk of being digitally excluded, increasing their digital literacy.
- Encouraged the development of technical skills, assisted and guided participants through the course

HONORS AND AWARDS

The Cornell, Maryland, Max Planck Pre-doctoral Research School 2023
Program attendee
- Selected as one of the ~90 students to attend the Cornell, Maryland, Max Planck Pre-doctoral Research Summer School.

UNIBO Study Award for Computer Science 2023
Scholarship recipient
- Awarded as the best student in the Computer Science master's program for 2023, based on grades.

Coop Reno Scholarship 2019 – 2023
Scholarship recipient
- Selected as a top student among the Coop Reno cooperative.

SKILLS

Front-end: HTML/CSS, JavaScript (Vue, Express), Kotlin (Android)

Back-end: Java, C++ (OpenGL), SQL (MySQL, Postgres), Firebase, MongoDB, PHP

Data science and AI/ML: Python (PyTorch), R, WEKA, Gephi

Developer Tools: Git, JUnit, Figma, Balsamiq, Jira, Agile Methodology (Scrum)

Languages: Italian (native), English (C2), French (C1), Chinese (A2)