

Denise Cosolo

PhD Student in Computer Science

Education

- **PhD in Computer Science**, Free University of Bolzano
November 2025 - Present
Currently working on Simulation in Object Centric Process Mining
- **Master's degree in Medical Bioinformatics**, University of Verona, Italy
October 2023 - July 2025
Thesis title: BEAT - An agile design framework for telemedicine-based Hypertension Management: A user-centered approach to the GUI development
Thesis project: Design, implementation and evaluation of a telemedicine software tool supporting highly specialized hypertension management units and the related physicians and patients. Done in collaboration with clinicians of Italian Society of Arterial Hypertension (SIIA)
Grade: 110/110 cum laude
Course language: English
- **Bachelor's degree in Bioinformatics**, University of Verona, Italy
October 2020 - July 2023
Thesis title: Implementation of Radar's graphical user interface: a web application for collecting and managing reports of suspected adverse drug reactions.
Thesis project: Implementation of the graphical user interface for Radar: a web application for collecting and managing reports of suspected adverse drug reactions.
Grade: 100/110
Course language: Italian

Publication

Mantovani, M., **Cosolo, D.**, Anzillotti, F. P., Fava, C., Minuz, P., & Combi, C.
"BEAT – An Agile Design Framework for Telemedicine in Hypertension."
Accepted for presentation at the **IEEE International Conference on Healthcare Informatics** (ICHI 2025), June 2025

Experiences

Full-stack developer - Unpaid university internship

January 2025 - March 2025

Department of Computer Science, University of Verona, Italy

- Developed a telemedicine software solution for hypertensive patient care.
- Designed workflows using BPMN and Camunda Modeler.
- Built and deployed a full web application for medical assistance.

Bioinformatician data analyst - Unpaid university internship

June 2024 - September 2024

InfOmics - Department of Computer Science, University of Verona, Italy

- Conducted implementation tests and login script development for dataSHIELD.
- Worked on dsOmics and dsBase packages in virtualized and containerized environments.
- Performed differential gene expression analysis

Frontend developer - Unpaid university internship

March 2023 - May 2023

Department of Diagnostic and Public Health - Section of Pharmacology, University of Verona, Italy

- Designed and implemented the user interface for a new feature of a web application
- Developed responsive UI layouts, ensuring multi-language support.
- Gained hands-on experience with version control and collaborative development tools.

Languages

Italian	Native speaker
English	CEFR Level B2