Michela Ferrari

💼 PhD student in Bioengineering

🏠 Pavia, Italy   ✉ michela.ferrari06@universitadipavia.it   in Michela Ferrari

🏢 Work Experience

PhD student - University of Pavia: *Oct 2023 - Present*

PhD program: Bioengineering, Bioinformatics and Health Technologies.
Research topic: artificial intelligence for medical image analysis in cardiovascular diseases.

Researcher - Fondazione IRCCS Policlinico San Matteo, Pavia: *Oct 2022 - Sep 2023*

Research topic: analysis of coronary computed tomography angiography images, development of customized tools for coronary arteries evaluation with particular attention to tortuosity and integration of imaging data with genetic data.

Academic tutoring and seminars - University of Pavia:

Apr 2024 - Present: 3D Slicer lectures and tutorials for MSc students in Bioengineering.

2019 - 2022: Tutoring for Mathematical Analysis courses at the Faculty of Engineering.

🎓 Education

Master's Degree in Bioengineering - University of Pavia: *Oct 2021 - Sep 2023*

Thesis: CATE (Coronary Artery Tortuosity Evaluator): development of a tool for 3D reconstruction and quantitative assessment of coronary artery tortuosity from CT angiography.
Final mark: 110/110 cum laude

Bachelor's Degree in Bioengineering - University of Pavia: *Oct 2018 - Sep 2021*

Thesis: Contact lenses with integrated piezoresistive sensors for continuous and minimally invasive monitoring of intraocular pressure.
Final mark: 110/110 cum laude

High School - Liceo delle Scienze Applicate G. Cardano, Pavia: *2013 - 2018*

Final mark: 100/100

⚙ Skills

Programming and markup: Python, Matlab, HTML, Latex
Image processing: 3D Slicer, MONAI, VMTK, VTK, ITK, OpenCV, scikit-image
Soft skills: dependability, accountability, attention to detail, patience, curiosity, cooperation

📑 Projects and scientific publications

- ⬛ mife-git
- 🆔 0009-0005-6066-2051
- 𝒢 Michela Ferrari

🔤 Languages

- Italian - Native
- English - Professional working proficiency
- Spanish - Beginner

✱ Certifications

- *Nov 2023*: Successfully passed the examination to practice the profession of Biomedical Engineer in Italy