

Experience

Scientific Consultant /Software Engineer | Biomeris S.r.l.

Pavia, Italy – Feb 2021 - *ongoing*

- Real-world healthcare data harmonization
- Development and maintenance of R-Shiny healthcare applications
- R&D Consultant for Natural Language Processing projects

Ph.D. Researcher | Istituti Clinici Scientifici Maugeri & UniPV

Pavia, Italy – Oct 2020 - *ongoing*

- NLP-assisted disease registry curation from Italian clinical reports
- Research and development of XAI and interpretable ML solutions

Technical Writer | Towards Data Science

Online – Mar 2019 - *ongoing*

- Writing about Data Science for a popular data science blog
- 10+ articles, 200+ readers, 100K+ reads

Machine Learning Engineer | AMC - Academic Medical Center

Amsterdam, The Netherlands – Aug 2019 - Mar 2020

- Bayesian net support system for fall prevention in elderly patients
- Research and review of NLP methods to parse Dutch clinical notes

IT Analyst | Biomeris S.r.l.

Pavia, Italy – May 2019 - Jul 2019 (Internship)

- Software modules for Diagnostic Therapeutic Care Pathway management for Multiple Sclerosis

Machine Learning Engineer | AMC - Academic Medical Center

Amsterdam, The Netherlands – Oct 2018 - Mar 2019 (Internship)

- Research about NLP models for the early detection of Colorectal Cancer from EHR unstructured Dutch data

IT Analyst | Biomeris S.r.l.

Pavia, Italy – Apr 2016 - Sep 2016 (Internship)

- Library for the representation and visualization of genograms

Education

Ph.D. – Big Data and Biomedical Informatics | University of Pavia

Pavia, Italy – Oct 2020 – Feb 2024 (expected)

- Teaching - *Advanced Biomedical Machine Learning* course, NLP module (2021, 2022, 2023)
- Tutoring – *Medical Informatics* (2022)
- Publishing – Authored and co-authored work published on relevant journals (*Journal Of Biomedical Informatics*, *Artificial Intelligence In Medicine*) and conferences (*Medinfo*, *AIME*) in the field

Master's Degree – Biomedical Engineering | University of Pavia

Pavia, Italy – Oct 2016 - Jul 2019 | Grade: 110/110 *Cum Laude*

Bachelor's Degree – Biomedical Engineering | University of Pavia

Pavia, Italy – Oct 2012 - Apr 2016 | Grade: 100/110

High School Scientific Diploma | Liceo Scientifico N. Copernico Pavia

Pavia, Italy – Sep 2007 - Jun 2012 | Grade: 94/100

Summary

Biomedical engineer specialized in NLP for healthcare. Geek, musician, and bicycle lover. Embracing social and environmental sustainability.

Skills

Soft: Patience - Critical Thinking - Perseverance - Curiosity - Flexibility - Public Speaking - Negotiation - Self Monitoring - Visual Communication

Tech: Machine Learning - Data Mining - R - Python - Data Mining - Data Viz - Orange - SQL - Java - NLP - Medical Informatics - HTML - CSS - JavaScript - Matlab - AI - Text Mining - Data Science - Explainable AI

Projects Portfolio

- **AraucanaXAI** Python package for local explainable AI (2022)
- **ShinyDBNet** interactive framework for visualizing and reasoning with Discrete Bayesian Networks (2019)
- **ChromaR** R toolkit to analyze and explore chromatic storytelling in any video source (2019)
- **Ask Me Anything Bot** a QA bot based on the RoBERTa model, made with Python & HTML/CSS/JS (2021)
- **Sinapsi** web app designed to provide an easy connection between family doctors and psychologists (2020)
- **MOGE(S)** cross-platform mobile application to classify cardiomyopathies (2016)

Volunteering

Content Creator | ComIntArt

Collaborator and interviewer for a popular science channel in Italian about AI.

Translator | Coursera

Help making up for the lack of AI-related content for non-english speakers.

Languages

- **English** - Full professional proficiency
- **Italian** - Native language

Licenses

Professional License – Computer Engineer