

Vito Antonio Pagone

vitopagone@outlook.com · +41 76 250 65 67 · Zürich, Switzerland
linkedin.com/in/vitoantoniopagone · vitoantoniopagone.github.io

EXPERIENCE

UBS <i>Data Scientist</i>	March 2024 – Present <i>Zurich, Switzerland</i>
• Designed and maintained production Airflow pipelines and Dockerized backend applications to orchestrate and run end-to-end ML workflows on high-volume financial execution data.	
IBM Research <i>Intern</i>	November 2023 – January 2024 <i>Zurich, Switzerland</i>
• Built reusable Python-based ML pipelines with automated training and evaluation to support experimentation and deployment of foundation models in reliable research and production workflows.	
ETH Zurich <i>Research Assistant</i>	October 2023 – January 2024 <i>Zurich, Switzerland</i>
• Developed end-to-end PyTorch pipelines for data processing, model training, and performance evaluation with a focus on clean and maintainable code.	
ETH Zurich <i>Research Assistant</i>	February 2023 – July 2023 <i>Zurich, Switzerland</i>
• Built reusable Python tools and libraries with documented APIs to improve code quality and collaboration across research teams.	

EDUCATION

ETH Zurich <i>M.Sc. in Mechanical Engineering</i>	March 2021 – September 2023 <i>Zurich, Switzerland</i>
• Thesis: Flow Reconstruction using Physics-Informed and Geometric Deep Learning	
Politecnico di Bari <i>B.Sc. in Mechanical Engineering</i> (Grade: 110/110)	September 2017 – July 2020 <i>Bari, Italy</i>

PUBLICATIONS

Flow Reconstruction in Time-varying Geometries using Graph Neural Networks <i>arXiv preprint: https://arxiv.org/abs/2411.08764</i>	November 2024
• Applied Geometric Deep Learning for fluid dynamics, demonstrating improvements in flow prediction accuracy and computational efficiency.	

PROJECTS

OstuniHelper – Full-Stack AI Platform <i>ostunihelper.it</i>	February 2025 – Present
• Designed and deployed a production-ready full-stack web platform using Flask, REST APIs, MySQL, Docker, and Nginx, with a responsive JavaScript/Tailwind frontend and multilingual AI-powered services.	

TECHNICAL SKILLS

Languages: Python, JavaScript, C++, SQL, Bash
Backend & APIs: Flask, Node.js, REST APIs, Nginx, Gunicorn
Databases: MySQL, PostgreSQL, SQLite
Cloud & DevOps: Docker, AWS, Azure, Linux (Ubuntu), CI/CD, GitHub, GitLab
Frontend: HTML, CSS, Tailwind, Vite
Data & ML Systems: PyTorch, TensorFlow, Scikit-learn, Apache Airflow, Distributed Training (DDP), Data Pipelines, Model Deployment
Messaging & Streaming: Kafka
Tools: Git, VS Code, Vim, LaTeX, Regex