

Vito Antonio Pagone

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EXPERIENCE

UBS

March 2024 – Present

Data Scientist

Zurich, Switzerland

- 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

November 2023 – January 2024

Intern

Zurich, Switzerland

- 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

October 2023 – January 2024

Research Assistant

Zurich, Switzerland

- Developed end-to-end PyTorch pipelines for data processing, model training, and performance evaluation with a focus on clean and maintainable code.

ETH Zurich

February 2023 – July 2023

Research Assistant

Zurich, Switzerland

- Built reusable Python tools and libraries with documented APIs to improve code quality and collaboration across research teams.

EDUCATION

ETH Zurich

March 2021 – September 2023

M.Sc. in Mechanical Engineering

Zurich, Switzerland

- Thesis:** Flow Reconstruction using Physics-Informed and Geometric Deep Learning

Politecnico di Bari

September 2017 – July 2020

B.Sc. in Mechanical Engineering (Grade: 110/110)

Bari, Italy

PUBLICATIONS

Flow Reconstruction in Time-varying Geometries using Graph Neural Networks

November 2024

arXiv preprint: <https://arxiv.org/abs/2411.08764>

- Applied Geometric Deep Learning for fluid dynamics, demonstrating improvements in flow prediction accuracy and computational efficiency.

PROJECTS

OstuniHelper – Full-Stack AI Platform

February 2025 – Present

ostunihelper.it

- 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