

Jacopo Zacchigna

+39 392 242 8077 | jacobozac@icloud.com | Trieste, TS, Italy | linkedin.com/in/jacopo-zacchigna | jac-zac.github.io/

PROFESSIONAL SUMMARY

Master's student in Data Science & Artificial Intelligence with research experience in mechanistic interpretability, computer vision, and generative models. Strong foundation in statistics, mathematics, and computer science. Published computer vision work in *Plants*. Interested in interpretability, advancing deep learning theory and applied research in real-world systems and HPC.

EDUCATION

University of Trieste

September 2024 - September 2026

Master's, Data Science and Artificial Intelligence

- Probabilistic ML, Advanced Deep Learning, NLP, RL, Advanced HPC, XAI, Theory of Deep Neural Networks, Unsupervised

University of Trieste

September 2021 - July 2024

Bachelor's, Artificial Intelligence and Data Analytics

- Built strong foundations in math, statistics, machine learning, and core CS, with experience in model training and evaluation

PROJECTS & OUTSIDE EXPERIENCE

Monitoring and Attributing Implicit Personalization in Conversational Agents

February 2026 - May 2026

Research Fellow

Remote

- Conducted experiments on persona-vectors extracted from activations of rich persona ([SynthPersona](#)) using NNsight and nnterp
- Worked on evaluation for Doc-to-Lora for Synthetic Persona on templated attributes vs full biography
- Created an interactive UI with support for persona-vector extraction, analyses.
- [Link to project](#)

BayesianFlow - Uncertainty Estimation in Generative Models - [Link to project](#)

June 2025 - July 2025

- Extended BayesDiff from diffusion to flow matching models, achieving 5× faster generation than DDIM with comparable quality.
- Integrated Last Layer Laplace Approximation into U-Net for pixel-wise uncertainty estimation, producing interpretable confidence maps.
- Conducted comparative analysis of flow matching and diffusion models, assessing computational efficiency and uncertainty propagation

PROFESSIONAL EXPERIENCE

Obloo

May 2024 - January 2025

AI Consultant

Trieste, Italy

- Mentored 5 interns in AI research & engineering practices, leading a 50% increase in team productivity
- Designed GenAI Retrieval-Augmented Generation (RAG) systems for knowledge retrieval from company data lake
- Led ML research prototypes bridging academic methods with production workflows, contributing to 2 new products adopted company-wide

SKILLS

Skills: Deep Learning, Generative Models, Bayesian Inference, Research, Python, C/C++, Computer Vision, Data Science, Linux/Unix, Natural Language Processing (NLP), Pytorch, R, Docker, High Performance Computing (HPC), ML, Machine Learning, data mining, algorithm development, NumPy, CUDA, GPU

Languages: Italian, English