



Marina Zanoni

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EDUCATION

Master of Data Science (Computer Science and Engineering)

Emphasis on Deep Learning, Diffusion Models, IoT

University La Sapienza of Rome, IT

October 2023 - October 2025

Relevant coursework: Network Signal Processing, Smart Environments, Algorithmic Methods for Data Science, Statistics for Data Science, Advanced Machine Learning, Natural Language Processing

Erasmus + Program: TU Dortmund

September 2024 – February 2025

Bachelor of Statistics for Business

Emphasis on Computer Science and Probability

University La Sapienza of Rome, IT

October 2020 - July 2023

- Relevant coursework: Informatics, Algebra, Geometry, Probability, Operational Research, Statistics, Sampling methods (theory), Database Management, Multivariate Statistics, Statistic inference, GLM, Logistics
- **First selected for the Honour Program**, granted 3000 euros. I followed courses of Informatics like WebScraping, Informatics 2, Graph Theory and networkX, Randomization Techniques among others

PROJECT EXPERIENCE

Master Thesis Project, Sapienza University

Rome, IT

Distillation Models, transformer, Foundation Models

June 2025 - Present

- In collaboration with Prof. Galasso, **Panasonic**, and **Berkeley University** we investigated the applicability of new audio-text advanced co-distillation model to improve performance over text-based models
- Leveraged high-performance computing (HPC) on the Leonardo supercomputer at **CINECA**
- **Familiarity** with various models on **Hugging Face** (Whisper-tiny, HuBERT, ResNet, nfresNet, and ViT).

Honour Program Recipient (Master Program)

State-of-the-art research focused on World Models

April 2024 – September 2025

- This project was part of an international collaboration with **Darmstadt University** and focused on the application of learned **robotic policies** within the PINLAB Laboratory, under the supervision of Prof. **Indro Spinelli**.

Database for product sell

- Data analytics solution for an e-commerce platform. Using both relational and non-relational databases, I optimized queries to extract key insights on product and seller performance. This project resulted in a 10x improvement in query efficiency.

EXPERIENCE

Data Science Assistant

January 2025 - May 2025

- High-level role with **strategic responsibilities**, directly engaging with over 10 startups, public sectors, companies and key stakeholders such as **KPMG** and **Leonardo**.
- Expert consultation on course content and optimal tool utilization (e.g., Slack, Kaggle), **proactively establishing new communication channels to reduce onboarding time** for users by (~15%) and streamline resource access for 200+ participants.

PUBLICATIONS

RESTART Project

Rome, IT

Semantic PCA for IoT-based XR: **accepted paper at EUVIP2025**

June 2025

- The project was selected by Prof. Colonnese and Prof. Cuomo for its innovative approach and outstanding results, using **DIP dataset of IMU-sensed data, ray tracing** within a **end-to-end XR framework** that accurately reproduces IMU signals.
- Successfully reduced data transmission by up to 7 times while maintaining reliable representation in noiseless environments, utilizing minimal quantization bits (e.g., achieving 99+% data integrity).

SKILLS

Programming Languages: Python, R, SQL, Matlab, C++, Java, Git

Operating Systems: Linux, Unix, Windows

Database: MySQL, MongoDB, AWS (basic knowledge)

Software: SQL, VsCode, Kaggle, Discord, Github, MS FrontPage/Teams/Excel/Word, Zoom, GoogleSurvey, Aitviewer

English, German: advanced

Spanish: intermediate

Italian: native

ADDITIONAL INFORMATIONS

- Second winner of the Erasmus+ call

- Assistant Mini Volleyball Instructor (September 2019 – February 2020)

- Volunteer as an Italian Teacher for Foreigners at Penny Wirtton School

I authorize the processing of my personal data present in my CV pursuant to art. 13 d. lgs. 30 June 2003 n. 196-“Code regarding the protection of personal data” and art. 13 GDPR 679/16 - “European Regulation on the Protection of Personal Data”.

Rome, August 15th 2025

Marina Zanoni