



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.
- Experimental Thesis: Integer Linear Programming Model for **Drone Management Oriented towards Urban Deliveries**

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