

Riccardo Bastiani

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Education

Sapienza University of Rome

Sept 2024 – Present

MSc in Computer Science – Artificial Intelligence and Data Science

GPA: 28.5/30

- **Thesis:** Researching co-adaptive robot learning through distilled latent world-model verification, conformal policy steering, and verified autonomous policy improvement.
- **Relevant coursework:** Computer Vision, Foundations of Data Science, Advanced Machine Learning, Natural Language Processing.

Università Politecnica delle Marche, Ancona

2017 – 2024

BSc in Computer and Automation Engineering

- **Relevant coursework:** Algorithms and Data Structures, Object-Oriented Programming, Databases, Computer Architecture, Automation and Robotics.
- **Thesis:** Used BERTopic on a large Kaggle dataset of Ukraine-war X/Twitter posts to analyze engagement and track events, key figures, and topic shifts from counteroffensive to stalemate.

Research Experience

Sapienza Percorso di Eccellenza (Honors Program)

Mar 2026 – Jun 2026

DILLO Embodied AI Research Project, Sapienza-INRIA

NVIDIA Academic Grant

- Extended an embodied-AI pipeline that enables robots to describe and evaluate action outcomes through language; integrated NVIDIA models and adapted the system to LIBERO manipulation benchmarks.
- Supported advanced robot-policy evaluation using vision-language models, robot learning, and reproducible end-to-end AI research pipelines.

Work Experience

Full-Stack Software Developer

Nov 2021 – Oct 2022

You-Can.it S.R.L. – Full-time

Civitanova Marche, Italy

- Designed and developed full-stack web applications for 5+ projects, from requirements analysis through deployment.
- Built responsive interfaces and backend functionality and delivered 20+ features based on client and business requirements.
- Diagnosed and resolved software issues, improving reliability and reducing recurring bugs and maintenance requests by approximately 15%.

Selected Projects

HyperGuard Diffusion

May 2026 – Jun 2026

- Built a PyTorch unsafe-prompt detector for diffusion language models using hyperbolic representations of denoising hidden states; benchmarked against Euclidean baselines on detection quality and post-defense attack success.

Tiny Recursive Models for Robotics

Oct 2025 – Dec 2025

- Developed and evaluated a multimodal recursive policy combining vision, language, and proprioception to predict 7-DoF actions across ten LIBERO-Spatial manipulation tasks.

TableTennisAnalysisVR

Dec 2024 – Jan 2025

- Built and labeled two 1,100+ image datasets, trained YOLO models for ball and table-keypoint detection, and projected detected trajectories into a 2D top-view visualization.

Conferences

Cybertech Europe 2025

Oct 2025

Conference participant – AI security, cyber defense, and critical infrastructure

Rome, Italy

Technical Skills

Artificial Intelligence & GenAI: PyTorch, TensorFlow, OpenCV, scikit-learn, Hugging Face, LangChain, LangGraph, RAG Pipelines

Embodied AI & Robot Learning: Robot Learning, Imitation Learning, VLA, Robotic Manipulation, LIBERO

Data, Cloud & MLOps: SQL, Pandas, NumPy, ChromaDB, FastAPI, Docker, AWS, Git, CI/CD, Linux

Programming Languages: Python, C/C++, JavaScript/TypeScript, HTML/CSS, PHP

Languages

Italian: Native | **English:** C2 (Fluent)