LORENZO UTTINI

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EDUCATION

University College of London, UK *September 2024 - Present*
MSc in Robotics and Artificial Intelligence GPA: 89%
Relevant Courses: Reinforcement Learning, Robotics Navigation, Robotics Manipulation

San Francisco State University, USA *August 2023 - December 2023*
Exchange Semester GPA: 4.0/4.0
Relevant Courses: Machine Learning for Healthcare, AI Explanability

University of Pavia, Italy *September 2021 - July 2024*
BSc in Artificial Intelligence Graduated: 110/110 cum Laude
Relevant Courses: Machine Learning, Deep Learning, Natural Language Processing
Joint Degree: University of Pavia, University of Milan, University of Milan-Bicocca

WORK EXPERIENCE

University College of London, London (UK) *December 2024 - Present*
Graduate Research Student - Supervised by Prof. Valerio Modugno

Conducted research on sim-to-sim transfer for the PAL Robotics Kangaroo robot, developing walking policies in Isaac Lab and MuJoCo. Currently training a Vision-Language Model (VLM) on diverse human walking videos to create an evaluator for robotic locomotion tasks, aimed at generating optimal reward functions to enhance Kangaroo's gait performance.

Cy4gate, Rome (Italy) *February 2024 - May 2024*
Machine Learning Engineer Intern

Hybrid internship under an Italian Cybersecurity and Cyberintelligence company.

- Developed different machine learning models to detect malign website domains generated by Domain Generation Algorithms (DGAs) employing Keras.
- Collected and processed data from built-in logs and external databases (200k+ domains) using Scikit-Learn for feature extraction and Streamlit as interactive web application for the best model.

PUBLICATIONS

Fabio Amadio, Hongbo Li, **Lorenzo Uttini**, Serena Ivaldi, Valerio Modugno, Enrico Mingo Hoffman.
Learning to Walk with Hybrid Serial-Parallel Linkages: a Case Study on the Kangaroo Robot.
HAL Preprint, 2025. hal-05072198v1

SELECTED PROJECTS

Autonomous Robot Navigation with EKF and MPC *link*
Designed and simulated a navigation system combining Extended Kalman Filter for localization and Model Predictive Control for trajectory tracking in PyBullet.

3D Point Cloud Table Detection and Segmentation *link*
Developed segmentation and classification pipelines using DGCNN on RGB-D point clouds, integrating ZoeDepth for monocular depth estimation.

EXTRA-CURRICULAR & SCHOLARSHIPS

LeadTheFuture: Among the few italian students selected to be mentees for a leading mentorship non-profit organization for students in STEM with a rate admission of 15%.
San Francisco State University: Selected as Italian Country Ambassador for international events and meetings.
ManiTese Onlus: Remote volunteering for an italian organization.
Unipv Scholarship: Classified third among 300+ students to obtain a merit scholarship of 5000$ to study one semester in San Francisco awarded by University of Pavia.

SKILLS

Python, Scikit-Learn, Keras, PyTorch, MATLAB, R, ROS2, MJX, MuJoCo, IsaacLab, Git