

Luca Ostinelli

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Education

MSc in Computer Engineering (AI-Oriented)

Politecnico di Torino, Turin, Italy | Since 10/2024

BSc in Computer Engineering

University of Pisa, Pisa, Italy | 09/2019 – 10/2024

Thesis (in Italian): bt.lucaostinelli.it

High School Diploma in Computer Science

ITIs G. Galilei, Livorno, Italy | 09/2014 – 06/2019

Experiences

Visiting Researcher

Saint Louis University, Missouri, USA | 08/2026 - 02/2027

Master's Student Research Fellow

Politecnico di Torino, Turin, Italy | 05/2025 - 04/2026

University timetable generation via linear programming.

Technical Strengths

Languages: Python, C/C++, JavaScript, TypeScript, Rust, PHP, SQL, HTML/CSS, Bash, L^AT_EX

AI/ML: PyTorch, TensorFlow, Scikit-learn, Transformers, LLMs, Vision Transformers (ViT), ResNet/CNNs, Fine-tuning, Generative AI, NLP, Computer Vision, AI Agents

Web: FastAPI, Node.js, React, Tailwind CSS, n8n

Data Science: Pandas, NumPy, Jupyter, Matplotlib, Seaborn, Plotly, Statistical Analysis, Data Visualization

Cloud & DevOps: Docker, Containerization, CI/CD, GitHub Actions

Databases & APIs: MySQL, MongoDB, Vector Databases, REST APIs, WebSockets

Developer Tools: Git, GitHub, Linux, VS Code, PyCharm, Google Colab, Cursor, Claude Code

Projects

Machine Learning: 6D Object Pose Estimation

Politecnico di Torino, Turin, Italy | Nov 2025 - Feb 2026

- Compared RGB-only and RGB-D fusion methods for 6D pose estimation.
- Evaluated accuracy (rotation & translation errors) on the LineMOD dataset.

Machine Learning: Semantic Correspondence

Politecnico di Torino, Turin, Italy | Nov 2025 - Feb 2026

- Dense semantic correspondence between image pairs using CNNs and ViT.
- Fine-tuned on PF-PASCAL; improved PCK keypoint transfer accuracy.

Languages

Italian Native

English B2 - IELTS 6.5 (2024)

Certifications

Cisco CCNA R&S:

- Scaling Networks (209)
- Routing and Switching Essentials (2018)
- Introduction to Networks (2017)

Honors & Awards

Regional Winner of RoboCup Jr.

Tuscany, Italy | 2018

Competitions

Plan B Hackathon

Lugano, Switzerland | 2025

RoboCup Jr. (Line Follower)

Various locations | 2017 – 2019

Zero Robotics (MIT & NASA)

Remote | 2017

University Activities

AI Division Leader, BitPolito

Politecnico di Torino, Turin, Italy | Since 2025

Leading the AI division within BitPolito. Driving the development of artificial intelligence solutions applied to Bitcoin and blockchain technologies, coordinating team efforts and defining technical direction.

Unicredit Entrepreneurs GENNEXT

UniCredit University – Turin, Italy | 03/2025

Covered startup creation, patents, marketing, fundraising, circular economy and sustainability. Included workshops, team projects and pitching sessions.

Volunteering

Ambulance Volunteer

Misericordia di Livorno, Italy | 2018 – 2022

UNICEF

Livorno, Italy | 2018 – 2019