

Luca Ostinelli

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Education

M.Sc. in Computer Engineering

Politecnico di Torino, Turin, Italy | 10/2024 – exp. 03/2027

AI & Data Analytics track; thesis with Saint Louis University (USA).

B.Sc. in Computer Engineering

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

Thesis (in Italian): bt.lucaostinelli.it

Diploma in Computer Science & Telecommunications

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

Experience

Visiting Researcher

Saint Louis University, USA | 08/2026 – 02/2027

Research period in AI for the master's thesis.

BitPolito

Politecnico di Torino, Turin, Italy | 10/2025 – Present

AI Division Leader

05/2026 – Present

Technical direction of the AI division of the Bitcoin student association.

AI Software Engineer

10/2025 – 05/2026

ML, LLM integrations and back ends for BitPolito Academy (AI tutor).

Master's Student Research Fellow (UROP)

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

- LP timetabling with hard/soft constraints in MATLAB and CPLEX.
- Course database; comparison with evolutionary methods (FET).

Technical Strengths

Languages	Python, C/C++, JavaScript, TypeScript, Rust, PHP, SQL, HTML/CSS, Bash, $\LaTeX$
AI/ML	PyTorch, TensorFlow, Scikit-learn, Transformers, LLMs, Vision Transformers (ViT), ResNet/CNNs, Fine-tuning, Generative AI, NLP, Computer Vision, AI Agents
Optimization	Linear Programming, Operations Research, CPLEX, MATLAB
Data Science	Pandas, NumPy, Jupyter, Matplotlib, Seaborn, Plotly, Statistical Analysis, Data Visualization
Web & Data	FastAPI, Node.js, React, Tailwind CSS, n8n, MySQL, MongoDB, Vector Databases, REST APIs, WebSockets
DevOps & Tools	Docker, CI/CD, GitHub Actions, Git, GitHub, Linux, VS Code, PyCharm, Google Colab, Cursor, Claude Code

Projects

Semantic Correspondence

Advanced ML course, PoliTo | 03/2026 – 05/2026

- Keypoint matching on SPair-71k (DINOv2, DINOv3, SAM).
- Training-free matching, soft-argmax, fine-tuning, LoRA.

6D Object Pose Estimation

Advanced ML course, PoliTo | 11/2025 – 02/2026

- RGB-only vs RGB-D fusion (DenseFusion, PVN3D, FFB6D).
- Rotation and translation accuracy on LineMOD.

Languages

Italian Native

English B2 · IELTS 6.5 (2024)

Certifications

Cisco CCNA Routing & Switching:

- Scaling Networks (2019)
- Routing and Switching Essentials (2018)
- Introduction to Networks (2017)

Awards & Competitions

Plan B Hackathon

Lugano, Switzerland | 2025

Built Verilocal, a Bitcoin payments prototype for local businesses.

RoboCup Jr. (Line Follower)

Tuscany, Italy | 2018 – 2019

Regional winner (2019).

CyberChallenge.IT

University of Pisa | 2020

National cybersecurity training and CTF competition; top team.

Zero Robotics (MIT & NASA)

Remote | 2017

Programmes & Talks

Workshop: Agentic AI and LangGraph

BitPolito, Turin, Italy | 12/2025

Talk and workshop on agent orchestration for the BitPolito community.

UniCredit Entrepreneurs GEN-NEXT

UniCredit University, Turin | 03/2025

Start-up programme: funding, patents, marketing and a live pitch to investors.

Volunteering

Ambulance Volunteer

Misericordia, Livorno | 2018 – 2022

UNICEF

Livorno, Italy | 2017 – 2018

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