

# Riccardo Franceschini

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Portfolio: [riccardofranceschini.com](https://www.riccardofranceschini.com) | Publications: [Scholar Profile](#)

## Experience

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### Robotics & AI Research Engineer @ Eurecat

Jul 2021 - Present

- Led end-to-end data pipelines for collection, curation, fine-tuning, evaluation and deployment of reinforcement learning, vision and large language models.
- Designed and deployed advanced autonomy algorithms (full + shared autonomy), from sensor data processing to high-level decision-making.
- Built and optimized perception modules including localization, object detection, tracking, and planning on embedded hardware across both NVIDIA and non-NVIDIA platforms.

**Technology used:** C++, Python, Pytorch, ROS1/2, OpenCV, Open3D, Docker, Git, BehaviourTree, HuggingFace, CI/CD

### Deep Learning Researcher @ University of Trento

Jan 2021 - Jul 2021

- Researched unsupervised multimodal attention methods combining text, audio, and video for emotion recognition in human-robot interaction.
- Managed the full ML lifecycle: dataset creation, filtering, model architecture design, training, and experiment tracking.

**Technology used:** Python, Pytorch, Numpy, Sci-kit, Pandas, Docker, Git

### Deep Learning Research Engineer @ FBK

Oct 2020 - Dec 2020

- Developed unsupervised human pose keypoint estimation models using generative adversarial networks for an industrial client.
- Evaluated performance against state-of-the-art methods and delivered actionable insights.

**Technology used:** Python, Pytorch, Numpy, Sci-kit, Pandas, Git

### Deep Learning Researcher Intern @ Bosch

Feb 2020 - Oct 2020

- Built deep learning attention-based models for predicting pedestrian and vehicle trajectories in autonomous driving scenarios.

**Technology used:** Python, Pytorch, Docker, Git

## Education

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### PhD, Robotics & AI @ Danish Technical University & Eurecat (MSCA-ITN)

2021 - 2024

- Designed AI-enabled autonomy and AR interaction tools to make drone teleoperation safer, more intuitive, and more efficient for real-world inspections.

### MSc, Autonomous Systems @ University of Trento (Italy) & Aalto University (Finland)

2018 - 2020

- **Major:** Robotics & AI | **Minor:** Business & Entrepreneurship
- Final grade : 110/110 cum Laude

### BSc, Computer Science @ University of Trento (Italy)

2015 - 2018

- Final grade : 110/110

## Skills

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**Machine Learning:** Reinforcement Learning, Vision Models, Attention, Multimodal Models, Unsupervised Learning

**Engineering:** C++, Python, ROS1/2, Docker, CI/CD, Behavior Trees, Embedded Deployment

**Tools:** PyTorch, OpenCV, Open3D, Git, Scikit-learn, NumPy, Pandas, Unity3D, HuggingFace, Git

**Languages:** Italian (Native), English (Pro), Spanish (Pro), Catalan (Basic)