

Carlo Bosio

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INTERESTS

Artificial Intelligence, Robotics, Optimization, Reinforcement Learning, Foundation Models, Embodied AI

EDUCATION

University of California, Berkeley

Ph.D. in Robotics and AI, Supervisor: Prof. M. W. Mueller

Focus: Reinforcement Learning, Optimization, Large Language Models

Berkeley, CA, USA

2022 – Ongoing

University of Pisa - Stanford University

M.S. Robotics, 110/110 cum laude

Supervisor: Prof. M. Cutkosky (Stanford University)

Pisa, IT - Stanford, CA

2020 – 2022

ROBOTICS AND AI EXPERIENCE

Graduate Student Researcher - UC Berkeley

High Performance Robotics Lab - Supervisor: Prof. M. W. Mueller

Aug. 2022 – Ongoing

Berkeley, CA, USA

- Research on Robot Co-Design, LLMs for Reinforcement Learning ([Google Scholar](#)).
- Preference-Based Reinforcement Learning (RL) for Design (CS285 class project).
- Diffusion Models for Drone Motion Planning (CS282 class project).
- Fake Image Detection with Gram Matrices (CS280 class project)

Visiting Student Researcher - Stanford University

Biomimetics and Dexterous Manipulation Lab - Supervisor: Prof. M. Cutkosky

Mar. 2022 – Jul. 2022

Stanford, CA, USA

- Worked on ReachBot, project focused on a new concept for a space exploration robot. Developed a model and computational method to predict performances of a microspine gripper with stochastic grasps.
Paper: Chen T. G., Newdick S., Di J., **Bosio C.**, et al., *Science Robotics*, 2024

Research Fellow (E3 Scholarship) - EPFL

CREATE Lab - Supervisor: Prof. J. Hughes

Aug. 2021 – Oct. 2021

Lausanne, CH

- Developed from scratch a flexible, fully 3D printed robotic hand. I took care of computational design, grasp planning and manipulation control of the device.
Paper: **Bosio C.**, et al., *Frontiers in Robotics and AI*, 2022
- Co-design and optimal control of an underwater soft robot.
Paper: Obayashi N., **Bosio C.**, et al., *RoboSoft*, 2022

PUBLICATIONS

For a full list of publications, check my [Google Scholar](#) page!

SELECTED HONORS AND AWARDS

KTH RPL Summer School 2024: Selected as fully funded attendee for the KTH Robotics, Perception, and Learning Summer School in Stockholm, Sweden (acceptance rate: 3%).

Powley Fund Research Grant: Awarded 30k research funding grant.

EPFL Excellence in Engineering 2021: Awarded the highly competitive E3 Summer Research Fellowship from the EPFL School of Engineering (acceptance rate: 2.3%).

SKILLS AND INTERESTS

Programming Languages/Frameworks: C/C++, Python, Bash, Matlab, ROS, Git, PyTorch, LaTeX

Spoken Languages: Italian (native), English (fluent), French (fluent), Chinese (basic)

Interests: Entrepreneurship, Politics, Finance, Half Marathon Training, Scuba Diving