

Pietro Pustina

PH.D. STUDENT IN AUTOMATIC CONTROL · CONTROL ENGINEER

Summary

I am Ph.D. student in Automatic Control, Bioengineering and Operations Research at the Department of Computer, Control and Management Engineering, Sapienza University of Rome.

My current research focuses on model-based control of continuum soft robots.

Education

Ph.D. in Automatic Control, Bioengineering and Operations Research

SAPIENZA UNIVERSITY OF ROME

Rome, Italy

Nov. 2021 - Now

- **Research topic:** *Model-based control of continuum soft robots*
Supervisors: Alessandro De Luca, Cosimo Della Santina

M.Sc. in Control Engineering , 110/110 summa cum laude (avg 30/30)

SAPIENZA UNIVERSITY OF ROME

Rome, Italy

Sep. 2019 - Oct. 2021

- **Thesis title:** *Feedback Control of Elastically Decoupled Underactuated Soft Robots*
Tutors: Alessandro De Luca, Cosimo Della Santina

B.Sc. in Computer Engineering , 110/110 summa cum laude (avg 29.84/30)

ROMA TRE UNIVERSITY

Rome, Italy

Oct. 2016 - Jul. 2019

- **Thesis title:** *Sviluppo di un'interfaccia C/C++ per stampanti 3D*
Tutor: Francesco Riganti Fulginei

Publications

JOURNALS

- [1] **P. Pustina**, C. Della Santina, and A. De Luca, "Feedback Regulation of Elastically Decoupled Underactuated Soft Robots," *IEEE Robotics and Automation Letters*, vol. 7, no. 2, pp. 4512–4519, 2022. DOI: 10.1109/LRA.2022.3150829.

Work Experience

Front-end web developer

ENRY'S ISLAND

Pescara, Italy

Jun. 2019 - Sep. 2019

Alarm installer

SICUREZZA ATTIVA

Rome, Italy

Jun. 2016 - Sep. 2019

Honors & Awards

2021	1st place in the Student Honors Program in Control Engineering	Sapienza University of Rome
2021	International thesis scholarship	Sapienza University of Rome
2019	Wanted The Best scholarship	Sapienza University of Rome
2019	Lazio DiSco scholarship	
2017	Merith scholarship	Roma Tre University

Presentations

Presenter for <Feedback Regulation of Elastically Decoupled Underactuated Soft Robots>

INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION (ICRA) 2022

Philadelphia, USA

May. 2022

Service

REVIEWING SERVICE

Mar. 2022 - Now **IEEE Robotics and Automation Letters**
Jan. 2022 - Now **Journal of Intelligent & Robotic Systems**

COURSE TUTORING

A.A. 2022-2023 **Robotics I**, Master of Science in Artificial Intelligence and Robotics *Sapienza University of Rome*
A.A. 2021-2022 **Robotics II**, Master of Science in Artificial Intelligence and Robotics *Sapienza University of Rome*

Competences

PROGRAMMING

MATLAB, Simulink, C, Python, Java, Javascript
Familiar with: **C++, Julia, PHP, OCaml, SQL, C#**

MARKUP LANGUAGES

Latex, HTML, CSS, XML, JSON, YAML

OPERATING SYSTEMS

Debian GNU/Linux
Familiar with: **Windows 10**

SOFTWARE, LIBRARIES AND FRAMEWORKS

Robot Operating System 2 (ROS2), LibreOffice, MQTT, Xamarin, Bootstrap, Eclipse, FreeNAS

CAD MODELING

Familiar with: **Fusion 360**

LANGUAGES

Italian (mother tongue)
English (fluent)