

Pietro Pustina

PH.D. STUDENT · CONTROL ENGINEER

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Summary

I am Ph.D. student at DIAG, Sapienza University of Rome. My research focuses on model-based control of continuum soft robots.

Education

Researcher

TU DELFT

• **Supervisor:** Cosimo Della Santina

Delft, The Netherlands

Jul. 2022 - Now

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

SAPIENZA UNIVERSITY OF ROME

• **Research topic:** *Model based control of continuum soft robots*

Supervisors: Alessandro De Luca, Cosimo Della Santina

Rome, Italy

Nov. 2021 - Now

M.Sc. in Control Engineering , 110/110 summa cum laude

SAPIENZA UNIVERSITY OF ROME

• **Thesis title:** *Feedback Control of Elastically Decoupled Underactuated Soft Robots*

Tutors: Alessandro De Luca, Cosimo Della Santina

Rome, Italy

Sep. 2019 - Oct. 2021

B.Sc. in Computer Engineering , 110/110 summa cum laude

ROMA TRE UNIVERSITY

• **Thesis title:** *Sviluppo di un'interfaccia C/C++ per stampanti 3D*

Tutor: Francesco Riganti Fulginei

Rome, Italy

Oct. 2016 - Jul. 2019

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	International thesis scholarship	<i>Sapienza, University of Rome</i>
2021	First place, Student Honors Program in Control Engineering	<i>Sapienza, University of Rome</i>
2019	Wanted The Best scholarship	<i>Sapienza, University of Rome</i>
2019	Lazio DiSco scholarship	
2017	Merith scholarship	<i>Roma Tre University</i>

Presentations

Presenter for < Soft Robotics: a new robotics' frontier >

PROGETTISTA PIÙ

- Presented soft robotics as a new robotics frontier with numerous applications.

Online

Jan. 2023

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