Enrico Donato

PH D STUDENT & RESEARCH ASSISTANT

Employment History

Graduate Research Assistant, The BioRobotics Institute, Scuola Superiore Sant'Anna, Pisa

OCTOBER 2020 — PRESENT

- Worked to embody tactile sensing into Soft Robots
- Worked with a team to research and develop new models and control strategies for bio-inspired Soft Robots
- Worked on experimental setup for behavioral studies on African elephants
- Wrote peer-reviewed papers for ISI Journals and International Conferences

Qualification

Biomedical Engineer

FEBRUARY 2021 — PRESENT

- Qualified to practice Engineering profession from University of Pisa
- Enrolled as a member of the National council of Italian Engineers

Education

PhD BioRobotics, The BioRobotics Institute, Scuola Superiore Sant'Anna

OCTOBER 2020 — PRESENT

Awarded Full Scolarship

Main topic: *Tactile-driven Robotic Manipulation*
Relative topics: Soft Robotics, Bio-inspiration by animals and plants, Tactile sensing

- Supervised by Dr. Egidio Falotico from BRAIR Lab @ The BioRobotics Institute
- Tutored by Dr. Lucia Beccai from Soft BioRobotics Perception Lab @ IIT

MSc Bionics Engineering, Scuola Superiore Sant'Anna & University of Pisa

OCTOBER 2018 — OCTOBER 2020

Graduated with Honors

- Master Thesis: *Underwater Mobile Manipulation with a bio-inspired legged robot* (supervised by Dr. Marcello Calisti)
- Soft Robotics, Exoskeletons, Surgical Robotics, Robotic Prostheses, Social Robotics

BSc Computer Engineering, University of Calabria

OCTOBER 2015 — JULY 2018

Graduated with Honors (and mention to Curriculum Studiorum)

- Bachelor Thesis: *Implementation of constrained Model Predictive Control algorithms in Matlab/Simulink* (supervised by Dr. Domenico Famularo)
- Computer Science, Operating Systems, Operations Research, Automation and Robotics, Telecommunication

Courses

24 ECTS for FIT (Formazione Iniziale Tirocinio), University of Pisa

JANUARY 2021 — MAY 2021

Publications (ORCID: 0000-0002-8844-5279)

ISI Journals

1. M. Chellapurath, K.L. Walker, **E. Donato**, G. Picardi, S. Stefanni, C. Laschi, M. Calisti (2021). "Analysis of Station Keeping Performance of an Underwater Legged Robot", in *IEEE/ASME Transactions on Mechatronics*, doi: 10.1109/TMECH.2021.3132779.

International Conferences

1. **E. Donato**, Y. Tauqeer Ansari, C. Laschi, E. Falotico (2022). "To Enabling Plant-like Movement Capabilities in Continuum Arms", at I-RIM 3D Conference 2022
2. S. Dilibal, E.T. Gulnergiz, N. Pagliarani, **E. Donato**, F. Iori, E. Setti, E. Falotico, M. Cianchetti (2022). "Grasping of Li-ion Batteries via Additively Manufactured Soft Gripper and Collaborative Robot", at IEEE International Congress on Human-Computer Interaction, Optimization and Robotic Applications 2022
3. **E. Donato**, G. Picardi, M. Calisti (2021). "Statics Optimization of a Hexapedal Robot Modelled as a Stewart Platform", at Towards Autonomous Robotic Systems (TAROS) 2021, doi: 10.1007/978-3-030-89177-0_39.

Reviewer for international journals (Frontiers in Robotics and AI) and international conferences (IEEE IROS, ROBOSOFT).

Extra-curricular activities

Member 4696IT, Mensa Italia - The High I.Q. Society

AUGUST 2017 — PRESENT

References

References available upon request