

LINDA LASTRICO

EDUCATION

Ph.D Student | *Istituto Italiano di Tecnologia - Università degli studi di Genova* | Genova, Italy | _____ Oct 2019 – present
Ph.D student in Cognitive Robotics, Interaction and Rehabilitation Technologies @Robotics, Brain and Cognitive Sciences Department of IIT. The core of my project is to enhance humanoid robots' ability to understand implicit signals embedded in human movements; at the same time, I work to make robots gestures readable and interpretable from human partners, to improve the quality and the naturalness of the interaction.

Bioengineering Master's Degree | *Università degli studi di Genova* | Genova, Italy | _____ Sep 2017 - Oct 2019
Neuroengineering and bio-ICT curriculum 110/110 *Magna cum laude*
GPA: 4 (Italian GPA: 29.86/30)
Thesis: "**Controlling a redundant manipulator with a Body-Machine Interface**"
Supervisors: Prof. Maura Casadio - Università degli Studi di Genova, Prof. Robert Scheidt – Marquette University, Milwaukee, WI, Prof. Ferdinando Mussa-Ivaldi – Shirley Ryan Ability Lab, Chicago, IL, USA
Co-supervisors: Dr. Dalia de Santis, Dr. Fabio Rizzoglio, Shirley Ryan Ability Lab, Chicago, IL, USA

Biomedical Engineering Bachelor's Degree | *Università degli studi di Genova* | Genova, Italy | _____ Sep 2014 – Sep 2017
GPA: 3.72 (Italian GPA: 28.44/30) 110/110 *Magna cum laude*
Thesis: "**Study and transfer of human motion kinematics to the humanoid robot iCub**"
Supervisor: Prof. Maura Casadio, Università degli Studi di Genova
Co-supervisors: Dr. Francesco Rea, Dr. Alessandra Sciutti, Italian Institute of Technology
Co-author: Valentina Baruzzi

Liceo Scientifico Statale G.D. Cassini | Genova (Italy) | _____ Sep 2009 - Jun 2014
Secondary school Diploma 94/100

OTHER EDUCATIONAL EXPERIENCES

Exchange Master's Student | **Shirley Ryan Ability Lab** | Chicago, IL, USA | _____ Mar 2019 – Sep 2019
I spent six months of my Master's studies in Chicago, at Shirley Ryan Ability Lab to work on my Master's thesis project. I was part of the Robotics Lab under the supervision of Prof. Ferdinando Mussa-Ivaldi. The project developed in collaboration with Marquette University, Milwaukee, IL, and the University of Genova.
Shirley Ryan Ability Lab (formerly known as Rehabilitation Institute of Chicago) is world's largest clinical research center for rehabilitation medicine and it is ranked as first rehabilitation hospital in America by every year since 1991.

Participant | **7th International Summer School of Neuroengineering Massimo Grattarola** | Genova, Italy | _____ Jun 2018
The aim of this edition was to introduce neurotechnologies and computational methods to interact with the brain, to investigate the origin of neurological diseases and to design neuroprosthesis to restore physiological conditions.

Student | **Science and Technologies for the Society of Information** | Genova, Italy | _____ Sep 2014 - Sep 2017
IANUA-ISSUGE provides advanced education for the best students of the University, selected on merit. To maintain the position students are required to have scores above 27/30 and no evaluations below 24 during the whole academic career. The aim is to create a group of students with a wider knowledge on subjects usually overlooked by the traditional academic preparation and to create a link between academic world and industries leader in ICT.

- Won a three-years scholarship and attended more than 100 hours per year of lessons and talks about innovative or managerial subjects, such as Quantum Mechanics, Efficient communication, Interplanetary missions, Mathematics for Medicine, National and International contract law, Business plan, Management of innovation, Cybersecurity, Soft Skills.

WORKING EXPERIENCE

Tutor of B1 English Course | **Università degli studi di Genova** | Genova, Italy | Sep 2019 - present
I am working as a tutor to support first-year students in completing the B1 online course offered by the University of Genova. My role is to provide English language support and monitor students' progress.

Tutor of Fundamentals of Computer Science | **Università degli studi di Genova** | Genova, Italy | Apr-Dec 2018
Worked as Tutor in the Fundamental of Computer Science BSc course, for the first-year students of Biomedical Engineering. I supported the students in accomplishing the assigned exercises in C++ and Matlab languages.

Scientific Entertainer | **Festival della Scienza** | Genova, Italy | Oct - Nov 2016, 2017, 2018
Worked as a scientific entertainer in three editions of this Festival. Explained scientific subjects such as robotics, mathematics and cyber security through interactive games and activities.
Learned how to interact with people and children of different ages and knowledges to explain concepts in a plain and enjoyable way.

SKILLS

- *Programming languages:* Python, C, C++, Matlab, Arduino, C#, Unity
- *Familiar with:* iCub humanoid robot, Motion Capture Systems, Eye Trackers, Inertial Sensors
- Data analysis, Machine Learning and Artificial Intelligence, Computer Vision, Experiment Design
- *Language:* Italian - mother tongue
English - C1

LICENSES

State examination for qualification as Information Engineer – November 2020

PUBLICATIONS

- Lastrico L., Carfi A., Vignolo A., Sciutti A., Mastrogiovanni F., Rea F. (2021) "Careful with That! Observation of Human Movements to Estimate Objects Properties". In Human-Friendly Robotics 2020. HFR 2020. Springer Proceedings in Advanced Robotics, vol 18. Springer, Cham. https://doi.org/10.1007/978-3-030-71356-0_10
- Garelo L. and Lastrico L., Rea F., Mastrogiovanni F., Noceti N., Sciutti A., "Property-Aware Robot Object Manipulation: a Generative Approach", Accepted for oral presentation at the 11th IEEE International Conference on Development and Learning (ICDL2021)
- Lastrico L., Carfi A., Rea F., Sciutti A., Mastrogiovanni F., "From Movement Kinematics to Object Properties: Online Assessment of Human Carefulness". Submitted to the 13th International Conference on Social Robotics (ICSR 2021) - **Under review**