

PERSONAL INFORMATION **Claudia Presicci**

[Gender](#) | [Date of birth](#) 9 February 1996 | [Nationality](#)

## WORK EXPERIENCE

Nov 2022 – Present

**Industrial Ph.D. Student**

Institute for Robotics and Intelligent Machines

University of Genoa – Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS)

SWHARD s.r.l.

Study and development of a highly ergonomic wearable device for movement and posture assessment in rehabilitation, work, and sports

[Business or sector](#) Healthcare and wellness

Feb 2023 – June 2023

**Teaching support**

University of Genoa – Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS)

Centro di Simulazione e Formazione Avanzata (SIMAV)

- Design and development of embedded systems for biomedical applications based on Arduino and ultrasonic sensors, potentiometers and force sensing resistors.
- Design and development of virtual environments in Unity for biomedical applications.

[Business or sector](#) Medical simulation, Biomedical Engineering (L-8)

March 2021 – Oct 2022

**Postgraduate Research Grant**

Consiglio Nazionale delle Ricerche – Istituto di Ingegneria del Mare (CNR – INM)

- Blue robotics for sustainable eco-friendly services aimed at innovative marinas & leisure boats (Blue RoSES)
- Smart technology for MARinE Litter SusTainable RemOval and Management (MAELSTROM)

[Business or sector](#) Software developer (Computer Vision, ROV)

Sept 2018 – Feb 2019

**Laboratory activities**

University of Genoa – Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS)

Collaboration activities (100h)

## EDUCATION AND TRAINING

Sept 2017– Dec 2020	<b>Master Degree in Neuroengineering and bio-ICT</b> University of Genoa – Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS)	<b>ISCED 7</b>
<b>Principal subjects/occupational skills covered</b>	Analysis of Biomedical data and signals Biomedical instrumentation and bioimaging Molecular, cellular and tissue engineering Motor control and human performance assessment Neuroengineering and neurotechnologies Perceptual systems and interaction Biomedical robotics Computational neuroscience Graphical programming for measurement and control Neuromorphic computing and integrative cognitive systems Project: Wearable posture control system with Arduino	
<b>Thesis</b>	A wearable vibrotactile system for obstacles detection and avoidance based on stereo tracking camera  <b>Final Grade</b> 110/110	
Jan 2019	<b>Certified LabVIEW Associate Developer (CLAD)</b> National Instruments  <b>Score</b> 92.5/100	
Oct 2014– Dec 2017	<b>Bachelor Degree in Biomedical Engineering</b> University of Cagliari	<b>ISCED 6</b>
<b>Principal subjects/occupational skills covered</b>	Analysis of Biomedical data and signals Mechanical bioengineering Biomaterials Chemistry and biochemistry Anatomy and physiology Bioelectronic interfaces Biosensors Electromedical devices Bioinformatics Electronic signal processing Electronic design Automatic controls Device electronics Project: Peak detector for ECG signals in Matlab	
<b>Thesis</b>	Inkjet Printed OCMFET as DNA hybridisation sensor  <b>Final Grade</b> 110/110	
Sept 208 – June 2014	<b>Scientific High School Diploma</b> Liceo Scientifico Statale “Antonio Pacinotti” Cagliari  <b>Final Grade</b> 100/100	<b>ISCED 3</b>
Nov 2010	<b>Certificate of course completion</b> <b>CompTIA A+ 220-801 and 220-802, and EUCIP</b> Cisco Networking Academy IT Essential: PC Hardware and Software	

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
First Certificate in English (University of Cambridge ESOL) B2					

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](#)

Social skills and competences

- Teamwork
- Team management
- Active listening

Organisational skills and competences

- Project management
- Problem solving
- Strategic thinking
- Implementing strategy
- Assessment and evaluation
- Developmental planning
- Responsibility for office materials and equipment

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

[Digital competences - Self-assessment grid](#)

Technical skills and competences

- Electrophysiological Signal Analysis (ECG, EMG, EEG, Spike trains and Burst)
- Neural Network Models, Neural Interfaces, Brain-Machine Interfaces
- Data Analysis (PCA, FA, ICA, Cluster Analysis, Decision Theory, Classifier Algorithms, Bayesian Models)
- Neuromechanics Models and Analysis (Kinematics, Dynamics and Sensorymotor Integration)
- Perceptive Systems Models and Technologies (Vision and Auditory System, Somesthetic Senses: Psychophysics Foundations and Neuromorphic Computational Processes)

Computer skills and competences

- Image and Signal Processing (MATLAB, LabVIEW, OpenCV)
- Computer Vision and Runtime Analysis
- Programming (Python, Arduino, C++, C#, Qt Quick, Unity, Flutter, Zephyr RTOS)
- MS Office (Word, Excel, Access, PowerPoint)

PUBLICATIONS

- [1] A. Odetti, E. Spirandelli, M. Bibuli, and **C. Presicci**. *Sushi Drop SUsustainable fiSHeries with DRONES data Processing: Manuale Tecnico di Uso e Manutenzione*. Tech. rep. Consiglio Nazionale delle Ricerche, 2021. URL: <https://publications.cnr.it/doc/460719>.
- [2] M. Bibuli, A. Odetti, M. Caccia, **C. Presicci**, R. Ferretti, and S. Aracri. “Networked Robots and IoT: Real Time Data Acquisition at its Finest”. In: *21st International Conference on Computer and IT Applications in the Maritime Industries*. 2022, pp. 120–130. URL: [http://data.hiper-conf.info/compit2022\\_pontignano.pdf](http://data.hiper-conf.info/compit2022_pontignano.pdf).

- [3] M. Bibuli, M. Caccia, **C. Presicci**, L. Sebastiao, D. Cabecinhas, A. Potes, J Quintas, M. Jacinto, and A. Pascoal. “The Blue-RoSES Project: a Gate for Remote Exploration of the Seas”. In: *IFAC-PapersOnLine* 56.2 (2023). 22nd IFAC World Congress, pp. 5723–5728. URL: <https://www.sciencedirect.com/science/article/pii/S2405896323008881>.