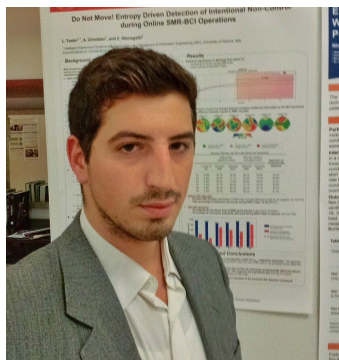


**PERSONAL INFORMATION**

Andrea Cimolato



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Sex Male | Date of birth 18/02/1990 | Nationality Italian

**EDUCATION**

May 2017 -  
Ongoing

**Phd: Bioengineering**

Politecnico di Milano, Neuroengineering and Medical Robotics Laboratory (NearLab), Milan, Italy

Istituto Italiano di Tecnologia (IIT), Rehab Technologies Department, Genoa, Italy

**Project:** *EMG-based control of lower limb prosthetic systems.* (Supervisor: Dr. Elena De Momi, Dr. Matteo Laffranchi, Dr. Leonardo De Mattos)

November 2012 -  
July 2015

**Master Degree: Bioengineering**

Grade: 106/110

Università degli Studi di Padova, Padua, Italy

**Thesis:** *EMG-driven movement decoding and control of an humanoid robot.* (Supervisor: Prof. Enrico Pagello)

**Relevant courses:** Biology and Physiology, Biomaterial and Biological Tissues' Mechanics, Processing of Biological Signals, Mechanics for Bioengineering, Biomedical Instrumentation, Health Informatics, Medical Biotechnologies

August 2013 -  
June 2014

**Erasmus Exchange Program**

KTH (Kungliga Tekniska Högskolan), Stockholm, Sweden

**Relevant courses:** 3D Imaging and Reconstruction, Biomechanics and Neuronic, Ergonomics, Human Factors and Patient Safety, Image Analysis and Computer Vision, Neuroscience, Simulation Methods in Medical Engineering

September 2009 -  
October 2012

**Bachelor Degree: Information Technology Engineering**

Grade: 99/110

Università degli Studi di Padova, Padua, Italy

**Thesis:** *Study in MATLAB/Simulink environment of the pitch control system of an aircraft* (Supervisor: Prof. Alessandro Beghi)

September 2004 -  
June 2009

**High School Graduation**

Grade: 99/100

Liceo Scientifico Primo Levi, Montebelluna, Italy

**RESEARCH**May 2016 -  
April 2017**Scholarship holder****IAS-Lab (Intelligent Autonomous Systems Laboratory), Università degli Studi di Padova, Padua, Italy****General research topics:** Software development of Brain-Computer Interface (BCI) for motor rehabilitation and telepresence, Software development for Muscle-Computer Interface robot control, Pediatric nonpharmacological therapy with robotic devices**Computer science research topics:** Signal processing, Machine learning, Decision making algorithmsOctober 2015 -  
April 2016**Research and development Engineer****EXiMotion, Padua, Italy****General research topics:** Software development of Brain-Computer Interface (BCI) for motor and cognitive rehabilitation**Computer science research topics:** Signal processing, Common Spatial Patterns (CSP), Features extraction and selection, Machine learning, Decision making algorithms**PUBLICATIONS**International peer-reviewed  
conferencesCimolato A, Piovanelli E, Bortoletto R, Menegatti E, Pagello E. Muscle Synergies for Reliable NAO Arm Motion Control: an Online Simulation with Real-Time Constraints. Accepted for oral presentation in Proc. of *IEEE International Conference on Simulation, Modeling, and Programming for Autonomous Robots 2016*, San Francisco, California, December 13<sup>th</sup>-16<sup>th</sup>.Abstract: Poggi G, De Tommasi V, Mancin R, Cimolato A, Basso G, Benini F. Effectiveness of Innovative Nonpharmacological Therapy with Puppy Humanoid Robot: An Observational Study. Accepted for oral presentation in Proc. of *3rd Congress on Paediatric Palliative Care: Global Gathering 2016*, Rome, Italy, November 16<sup>th</sup>-19<sup>th</sup>.Extended abstract: Tonin L, Cimolato A, Menegatti E. Do not Move! Entropy Driven Detection of Intentional Non-control During Online SMR-BCI Operations. In *Converging Clinical and Engineering Research on Neurorehabilitation II 2016* (pp. 989-993). Springer International Publishing.Abstract: Tonin L, Cimolato A and Menegatti E. On the use of ROS as a common infrastructure for robotic BCI driven applications. In *Proceedings of the Sixth International Brain-Computer Interface Meeting: BCI Past, Present, and Future* (p. 64), May 30<sup>th</sup>-June 3<sup>rd</sup>, 2016. Asilomar Conference Center, Pacific Grove, California, USA.**PERSONAL SKILLS**

Mother tongue(s)

Italian

Other tongue(s)

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken Interaction	Spoken Production	
C2	C2	C2	C2	C2
TOEIC certificate: 940/990				

Communication skills

- Good communication skills gained both through the work experience as a waiter, and during the Erasmus exchange program dealing with persons of different cultures and backgrounds
- Capability of lecturing and explaining an acquired knowledge due to my experience as thesis co-supervisor and as swimming instructor
- Interpersonal skills such as negotiation, interpreting and influence

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experienced in teamwork during my scholarship and internship

- Organisational / managerial skills**
- Competence in activity planning to reach the set goals, exploited every day during my research work as scholarship holder
  - Leadership capability and abilities to coach heterogeneous groups of persons
- Computer skills**
- Programming languages:
    - Proficient **MATLAB** user
    - Independent **Java** user
    - Proficient **C++** user
    - Independent **SQL** user
    - Independent **Python** user
  - Good knowledge of **ROS environment**
  - Proficient knowledge of Microsoft, UNIX & Android operating systems
  - Advanced knowledge of Microsoft Office tools
  - Experience with biological signal acquisition device
  - Experience with Humanoid Robots and Manipulators
- Other skills**
- Knowledge of the first aid standards
  - Abilities in visual arts, especially drawing and painting
- Licenses/Certifications:**
- ECDL: European Computer Driving Licence
  - Drive Licence: B

## **OTHER WORK EXPERIENCE**

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- 2009-2016 **Waiter**  
Trattoria al Cacciatore, Cornuda, Italy
- 2008 **Swimming Instructor**  
Piscine Comunali Valdobbiadene, Italy
- Level 1 Instructor