

Antonio Orvieto

Resume

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Born in Padua(Italy) on October 09, 1993.

Education

- Nov 2018 - present **PhD Student**, *ETH Zürich*, Data Analytics Lab, supervised by Thomas Hofmann.
Non-convex optimization and machine learning.
- Mar 2016 - Sept 2018 **Robotics, Systems and Control MSc mit Auszeichnung**, *ETH Zürich*, GPA 5.86/6.00,
focus on machine learning and dynamical systems.
Project : "Scalable Inference of Parameters in Non-Linear ODEs"
Master thesis : "Stochastic Calculus for Non-Convex Optimization"
- Oct 2012 - Sept 2015 **Information Engineering BSc cum laude**, *University of Padua*, 110/110, Top 3%, focus on
control systems and electronics.
Thesis: "An introduction to Quantum Probability".

Work experience

- Jun 2018 - Oct 2018 **Student Research Assistant at ETH, Zürich(CH)**, ISE Group, Prof. Buhmann, application
of machine learning to system identification in cell signaling networks (SystemsX.ch / SignalX).
- Oct 2017 - Jun 2018 **Student Research Assistant at ETH, Zürich(CH)**, CSB group, Prof. Stelling, model reduction
and statistical data analysis for the TOR signalling pathway (SystemsX.ch / SignalX).
- Mar 2017 - Aug 2017 **Research Intern at Hilti, Schaan(LI)**, Advanced Mechatronics team, signal processing and
machine learning for control and detection in power tools. Bonus for possible patent.
- Spring 2016 **Assistant at ETH, Zürich(CH)**, Statistical Learning Theory lecture, support for exercises.
- Oct 2012 - present **Volunteer at p63 EEC Syndrome, International Onlus, Padua(IT)**, support in the compu-
tational analysis of RNAseq data. Webmaster of the international website.

Technical Skills

- Machine learning in MATLAB and Python.
- Deterministic and stochastic optimization/control algorithms.
- Statistical/classical signal processing.
- Deep Learning with TensorFlow.
- Inference, analysis, and modeling in computational systems biology.
- Control systems design/ system identification in MATLAB/Simulink.
- Embedded C programming for control applications (experience with Freescale MPC5553, Arduino and Raspberry Pi).
- Android applications and games development in Java.
- Web programming using HTML/CSS, JS/JQuery, PHP/MySQL.
- Advanced knowledge of Linux.

Other Skills/Interests

Cello player, two summer schools at the *Karntner Landeskonservatorium in Klagenfurt (Austria)*.

Philosophy enthusiast, interested in modern and post-modern thinkers. Developing ideas in epistemology and metaphysics.

Competitive tennis player, Member of the *Italian Tennis Federation (FIT)* in 2009 and 2010. Been official and ball boy in several national competitions.

Languages

- Italian **Mother Tongue**
English **Advanced (IELTS C1 level)**