



# Luca Garbi

*Curriculum Vitae*

## PERSONAL DETAILS

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<i>Birth</i>	June 2, 1998	
<i>Current Address</i>	Zürich, Switzerland	
<i>Mobile phone</i>	SUI: (+41) 782070826	IT: (+39) 3490029410
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<i>Website</i>	www.lucagarbi.space	

## EDUCATION

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**Master's Degree in Physics** **09/2020-present**  
*ETH Zürich, Switzerland*  
Attending my second year of master's studies in Physics, with a focus on Statistical Physics, Quantum Information Processing and Mathematical Finance.

**Bachelor's Degree in Physics** **2017-2020**  
*University of Trento, Italy*  
Final Grade: 110/110 cum laude  
Final thesis title: *Heralded single photon sources based on intermodal four wave mixing*  
Supervisor: Prof. Lorenzo Pavesi

**Secondary School Diploma in Classics** **2012-2017**  
*Lyceum "G. Prati", Trento (Italy)*  
Attended classical studies with 3 years focus on Natural Science.

## WORK EXPERIENCES

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**Quant Risk Analyst Intern** **07/2021 - 09/2021**  
*Credit Suisse, Zürich*  
Internship in the context of the Quantitative Summer Institute within the QAT Zürich, particularly in the Counterparty Portfolio Modelling group.

**Teaching Laboratories Collaborator** **02/2019 - 01/2020**  
*University of Trento, Italy*  
Part-time collaboration to support and supervise the didactic laboratories of the Physics Department. (Competition notice "150-hour 2018/'19")

**Front office executive and sales** **2017-2018**  
*Hotel Collini, Pinzolo, Italy*  
Full-time job as front office executive and sales appointee during the 1<sup>st</sup> year of BSc.

**Bartender and handyman** **2016**  
*The Prince of Greenwich Pub, London, UK*  
Four months of full-time job over summer break as a bartender and maintainer during off-duty hours.

## SKILLS AND EXTRACURRICULARS

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### *Languages*

- Italian: native language
- English: fluent
- German: intermediate

### *Extracurriculars*

- **Investment Management with Python and Machine Learning** - *EDHEC Business School* via Coursera.
- **Financial Market Risks** - *ETH Zürich*.
- **School of Innovation on tech and entrepreneurship** - *University of Trento*.
- **Winter School on Computational Physics of the Cell** - *University of Trento*.

In addition I took part in several Hackathons, involving both a IoT/Electronics part and a programming side (some of the projects can be found at `lucagarbi.space`).

### *Technical Skills*

- MATLAB broad knowledge, mainly used for data analysis and simulations of physical systems;
- PYTHON used extensively for simulations and machine learning purposes (`numpy`, `pandas`, `matplotlib`, `scikit-learn`);
- PYSPARK proficiency for handling and analysing large datasets using the Spark SQL module;
- C/C++ proficient user, both for Monte Carlo and time-sensitive computational simulations;
- MQL4/MQL5 used for developing algorithmic TS in the Meta Trader environment;
- LINUX, L<sup>A</sup>T<sub>E</sub>X and GIT long-time user;
- Board/microcontrollers development and implementation (Arduino et sim.).

### *Soft Skills*

During my various work experiences I had the the opportunity to prove myself as a versatile communicator and valid problem solver, able to adapt and also work deftly in a team.  
I widened further the teamwork experience through both my experience as a volunteer firefighter and local voluntary organisations.

### *Certificates/licenses*

- New ECDL Full Standard (ECDL Foundation);
- IELTS English certificate - Band 8 (*CEFR* C1/C2);
- International Masterclass - Hands on Particle Physics (INFN);
- European driving license B.