

Alessandro Giacomo Bottero

Curriculum Vitae

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Date of birth: August 28th, 1992

Nationality: Italian



Education

- 2021–Now **PhD in the field of A.I.**, *Bosch Center for Artificial Intelligence (BCAI)*, Renningen.
Focus on safe reinforcement learning.
- 2014–2017 **MSc in Physics and Mathematics**, *Ludwig-Maximilians-Universität and Technische Universität*, München, 1.3 (Rating: "passed with distinction", ECTS grade: A).
Elite Master course in Theoretical and Mathematical Physics, an international Master programme, part of the Elite Network of Bavaria. Master Thesis work in the group of Professor Erwin Frey.
Area of Interest: Non equilibrium statistical physics with application to Biophysics.
- 2011–2014 **BSc in Physics**, *Università degli Studi di Pavia*, Pavia, 110/110 cum Laude.
Dissertation thesis: 'Spontaneous collapse models of the wavefunction', written under the supervision of Professor Oreste Nicosini.
Alumnus of Collegio Ghislieri, Pavia.
Historic college of academic excellence, parallel institution to the university, where its students, from all disciplines, can share experiences and ideas, and which provides extracurricular courses, seminars and activities in different fields.
- 2006–2011 **Maturità**, *Liceo Classico "Alessandro Volta"*, Como, 98/100.
Diploma di Maturità classica

Working Experience

- 2021 **Senior consultant at TNG - Technology Consulting GmbH**, München.
- 2018–2021 **Software consultant at TNG - Technology Consulting GmbH**, München.
- Agile software development in teams with up to 7 people - Scrum
 - OSS development on behalf of the client:
 - Support in porting RViz to ROS2 - C++14, Qt 5.9, Ogre3D 1.10, CMake
 - Initial design and implementation of rosbag2 - C++14, CMake, Python 2.7
 - Development of custom block-based binary data format
 - Design of the binary file format
 - Development of libraries to write and read the format - C++11, CMake
 - Development of introspection tooling for the format - C++11, Python 2.7
 - Development of tool to convert files into rosbags - ROS, C++11, Python, Boost
 - Project management and relations with clients

- 2017 **Internship at TNG - Technology Consulting GmbH**, München.
 - OSS development with focus on testing - unit, integration and e2e tests
 - Development of visual testing framework for RViz2 - GUI testing
- 2015 **Teaching assistant**, *LMU University*, München.
 - Assistant and grader for the course *Mathematical Quantum Mechanics*

Extracurricular Experience

- 2018 **Scrum training**, München.
- 2015–2016 **Student representative**, *LMU University*, München.
- 2016 **Softskill Seminar: *Communication competence in difficult situations***, München.
- 2015 **Softskill Seminar: *The art of conversation - How to win friends and influence people***, München.
- 2013 **Founder member of *Ghislieri Scienza***, *Collegio Ghislieri*, Pavia.
Students association whose aim is divulgation of science to the big public.

Languages

- Italian **Mother tongue**
- English **Fluent**
- German **Good**

Computer Skills (1: basic knowledge, 5: expert)

- Operating systems MacOS, Linux (Ubuntu)
- Programming Languages C++11 and 14 (4)
Python (3)
C (1)
Java (1)
Swift (1)
- Frameworks and tools git (4), CLion (4), gtest (4), CMake (3), ROS (2.5), ROS2 (2.5), Qt5 (2), Ogre 3D (1), Docker (1), Jenkins (1)

Interests

- Sports Tennis, swimming, skiing and scuba diving.
- Others Literature, travelling, machine learning, technological developments and advances, and their impact on people's life and society.