

Leonardo Alchieri

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Employment

- Apr 2022 – Present **PhD Student, research collaborator.**
Università della Svizzera Italiana (USI), Informatics.
Currently pursuing my PhD in Informatics, where I collaborate on state-of-the-art research in the field of wearable devices, affective computing and more.
- May – Oct 2021 **Data Scientist Intern.**
KPMG Italy, Financial Risk Management.
Developed real-time cloud infrastructure for commodity trading.

Research Publications

Journal Articles

- 1 Alchieri, L., Badalotti, D., Bonardi, P., & Bianco, S. (2021). An introduction to quantum machine learning: From quantum logic to quantum deep learning. *Quantum Machine Intelligence*, 3(2), 28.
🔗 doi:10.1007/s42484-021-00056-8



Education

- 2022 **Ph.D. Informatics, Università della Svizzera Italiana (USI).**
Currently attending
- 2019 – 2022 **M.Sc. Data Science, University of Milano-Bicocca (cum laude).**
Thesis title: *Multi-Modal Continuous Valence-Arousal Estimation in Videos*
- 2016 – 2019 **B.Sc. Physics, University of Milano.**
Thesis title: *Glitch classification in the Planck/HFI experiment using Neural Networks*
- 2014 – 2015 **Exchange Student USA.**
Year abroad in the United States during High School. Awarded as the *Best Math Student* in the school.
- 2011 – 2016 **Liceo Scientifico.**
Italian High School specialized towards scientific studies.



Skills

- Languages **Strong reading, writing and speaking competencies for English and Italian. Intermediate German and basic French as well.**
- Coding **Developer-level in Python. High competence in git. Good knowledge of C++, Bash, Docker and R. Basic knowledge of Julia.**
- Data Science **Supervised & Unsupervised Machine Learning, Evolutionary Algorithms, Quantum Machine Learning, Natural Language Processing, Word Embedding, Tableau, Data Management, NoSQL Databases (e.g. MongoDB), SQL, Affective Computing and many others.**
- Cloud **Google Cloud Platform, Kubernetes Engine, Google Pub\Sub, Memorystore Redis, CloudSQL.**




Skills (continued)

- Mathematics & Physics  Advanced Calculus, Statistical Modelling, Quantum Mechanics, General Relativity.
- Misc.  Academic research, teaching & tutoring, Home Networking.

Awards

- 2022  **Graduation Award *Silvio Tronchetti Provera Foundation*.**
Award given top 12 students graduating with an MSc in Data Science from the University of Milano-Bicocca.
-  **2nd Place @ *The EMBC 2022 Workshop and Challenge on Detection of Stress and Mental Health Using Wearable Sensors*.**
Created ML-based model to predict stress from wearable sensors and achieving 2nd highest accuracy on the test set.

Miscellaneous Experience

- 2017 – 2022  **Private Tutoring.**
Physics and Mathematics tutoring to High School and B.Sc. level.
- 2015  **Internship INFN.**
Physics internship at the Italian Physics Institute in Rome.
-  **Natural Preservation Volunteer**
Volunteer for natural reserve during Summer of 2015 in Lithuania.

References

Available on Request