

# VASILIS VALATSOS

## Curriculum Vitæ

Turin, Italy  
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🌐 Vasilis Valatsos

### Experience

2022-2024 **Alumni Database Manager**, *Students For Liberty*

### Education

2021-present **M.Sc. Statistics and Data Science**, *Università degli Studi di Torino*, Torino, Italy

2014-2021 **B.Sc. Physics**, *National and Kapodistrian University of Athens*, Athens, Greece

### Theses

#### Master's Thesis

2023 **Independent MARL using PPO in a Custom Environment.**, *Università degli Studi di Torino*, Supervisor: Roberto Esposito | Co-Supervisor: Mirko Polato, Code available upon request. (Thesis in Progress)

#### Bachelor's Thesis

2021 **The One-Dimensional Heisenberg Model, RG Methods and Numerical Simulation of the SDRG Process**, *National and Kapodistrian University of Athens*, Supervisor: Professor Aris L. Moustakas, Code available upon request.

### Programming Skills

**Python:**, Web Scraping, PyTorch, Django, Neural MMO

**AI Algorithms:**, Image and Video Classification, Q-Learning, Policy Optimization

**Web Development:**, ReactJS, HUGO, HTML5, Bootstrap

**Databases:**, PostgreSQL, Salesforce

### Projects

2023 **Super Mario Network**, *Implementation of a DDQN to play SMB1 for the NES, as part of my thesis*, Code available upon request.

2022 **Prehistoric Human Dispersion: The Exodus from Africa**, *Project for the course 'Statistical Machine Learning'*, Code available upon request.

2022 **The Black-Scholes Model for financial applications**, *Project for the course 'Computer Science with Python'*, Code available upon request.

### Workshops & Conferences

June 2022 **Machine Learning Crash Course**, *Università di Genova*, organised by MaLGa - Machine Learning Genoa Center.

July 2019 **Eighth Summer School in Operator Theory**, *National and Kapodistrian University of Athens*, organised by Emeritus Professor A. Katavolos.

December 2018 **Xmas Theoretical Physics Workshop @ Athens 2018**, *National and Kapodistrian University of Athens*, organized by Professor K. Sfetsos and Associate Professor V. Spanos.

December 2017 **Xmas Theoretical Physics Workshop @ Athens 2017**, *National and Kapodistrian University of Athens*, organized by Professor K. Sfetsos and Associate Professor V. Spanos.

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## Presentations

June 2019 **Random Operators – Anderson Localisation**, *National and Kapodistrian University of Athens*, Presentation for the course Stochastic Processes in Physics.

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## Seminars & Colloquia

March 2022 **Machine Learning from a Mathematical View Point: A Gentle Introduction**, *Università degli Studi di Torino*, Ernesto De Vito (Università di Genova), organized by UniTo.

December 2017 **Colloquium in Honour of Fokion Hadjioannou**, *National and Kapodistrian University of Athens*, organized by Professor P.J. Ioannou and Associate Professor T. Apostolatos.

December 2017 **Lectures on Theoretical Physics 2017**, *National Technical University of Athens*, F. Farakos (Leuven U.) – An Introduction to Supergravity, organized by Konstantinos N. Anagnostopoulos, Nikos Irges, Alexandros Kehagias, Georgios Koutsoumbas.

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## Languages

Native *Greek*  
Fluent *English*  
Basic *Italian*

*Mastery of Proficiency (C2 level, Michigan ECPE)*  
*A1 level, certified by University of Turin*