

VASILIS VALATSOS

Curriculum Vitæ

Turin, Italy

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🐙 github.com/aethrvmn

🌐 Vasilis Valatsos

Experience

June 2022- Feb 2024 **Alumni Database Manager**
Students For Liberty
Skills: Web Scraping, Database Management, Data Analysis, Salesforce, BitBucket

Education

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

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

Theses

Master's Thesis

2024 **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, NeuralMMO

AI Algorithms:

Media Classification, Q-Learning, DDQN, PPO, SAC

Web Development:

ReactJS, HUGO

Databases:

PostgreSQL, Salesforce

Nim

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.

Presentations

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

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).
- 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.

Languages

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

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