

# VASILIS VALATSOS

## Curriculum Vitæ

Turin, Italy

+39-327-754-0583

✉ valatsosvasilis@gmail.org

🌐 www.valatsos.gr

🐙 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
- January 2019 - August 2020 **Backend Developer**  
*ASTERION S.A.*  
Worked as an independent contractor
- November 2016 - April 2017 **Customer Support**  
*TelefoNET*

## 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*