

# VASILIS VALATSOS

## Curriculum Vitæ

Turin, Italy

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🌐 <https://www.valatsos.gr>

🐙 [github.com/aethrvmn](https://github.com/aethrvmn)

🌐 Vasilis Valatsos

## Experience

June 2022 - Feb 2024

### Alumni Database Manager

*Students For Liberty*

Skills: Web Scraping, PostgreSQL, Supabase, Data Analysis, Salesforce, BitBucket

January 2019 -

August 2020

### Backend Developer

*ASTERION S.A.*

Worked as an independent contractor

## Education

Sept 2021 - July 2024

### 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

### Reinforcement Learning: Theory and Implementation in a Custom Environment.

*University of Turin*

Supervisor: Roberto Esposito | Co-Supervisor: Mirko Polato

Code available upon request.

### 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.

## 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).
- 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.

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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*