

VASILIS VALATSOS

Curriculum Vitæ

Turin, Italy

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🐙 github.com/baledick

🌐 Vasilis Valatsos

Experience

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

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 **PneumaRL – A Game Platform to Train Single and Multi Agent Reinforcement Learning Algorithms**,
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.

2023 **Taxation Through Coercion**, *Implementation of the paper 'Analysing Tax Evasion Dynamics via the Ising Model'. Project for the course 'Simulation Models for Economics'*,
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), 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.

Languages

Native *Greek*

Fluent *English*

Basic *Italian*

Mastery of Proficiency (C2 level, Michigan ECPE)