Vasilis Valatsos
Curriculum Vitæ

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Vasilis Valatsos

Education

2014-2021	**B.Sc. Physics**, *National and Kapodistrian University of Athens*, Athens, Greece
2021-present	**M.Sc. Statistics and Data Science**, *Università degli Studi di Torino*, Torino, Italy

Experience

2022-present	**Alumni Database Manager**, *Students For Liberty*, Skills: Web Scraping, Database Management, Data Analysis, Front-End Development

Theses

Master's Thesis

2023	**Placeholder**, *Università degli Studi di Torino*, Supervisors: Name, 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.

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

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

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

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

Presentations

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

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.

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*   *Mastery of Proficiency (C2 level, Michigan ECPE)*

Basic   *Italian*