

Education

- mar 2022 - **Master's Degree: Physics of Complex Systems**, *Università Degli Studi di Torino*, Torino,
apr 2025 Final 110/110 Cum Laude
Thesis Title: "Activity-Driven modeling of financial transactions networks"
- sep 2013 - **Bachelor's Degree: Physics and Astrophysics**, *Università Degli Studi di Firenze*, Firenze,
dec 2021 Final: 96/110
Thesis Title: "Minority Game: a simplified market model"

Research Experience

- mar 2024 - **Master Thesis**, *CENTAI Institute*, Torino
apr 2025 ○ Conducted research on financial transaction networks trough data driven generative models.
- apr 2025 - **Paper contribution**, *CENTAI Institute*, Torino
ongoing ○ Contributing to research paper.

Work Experience

- nov 2024 **Teaching Assistant**, *King's College London (LISS DTP)*
○ Teaching assistant in "Social Network Analysis" seminar
- sep 2015 - **Museum Guide**, *"Giardino di Archimede"*, Firenze
mar 2020 ○ Educational tours dedicated to physics and mathematics
- may 2014 - **Sales Agent**, *MASTER AGENT*, Empoli
sep 2015 ○ Sale of gas, electricity, water and telephone supplies

Technical Skills

- Programming languages ○ Python (Proficient)
○ C/C++ (Intermediate)
○ Mojo, MatLab, Netlogo, Gama (Basic)
- Python Packages ○ Pandas, NumPy, Matplotlib, Mesa (Proficient)
○ Scipy, Seaborn, Statsmodels (Intermediate)
○ TensorFlow, PyTorch, Scikit-learn, Sympy (Basic)

Languages

- Italian Native
English Fluent
Spanish Fluent
French Beginner

Exam	CFU	Grade
Numerical Algorithms for Physics	6	30L
Professional Aspects of Applied Physics	3	Pass
Data Mining: Statistical Modeling and Machine Learning	6	25
Econophysics	6	30
Elements of Game Theory and Network Theory	6	30
Condensed Matter Physics	6	30
Laboratory of Advanced Modeling Techniques: Multi-Agent Systems (MAS)	6	30
Nonlinear Waves and Turbulence	6	30
Neural Networks	6	30
Seminar on Scientific Communication	1	Pass
Complex Systems for Climate Physics	6	30L
Statistical Mechanics B	6	28
Stochastic Processes for Physics	6	30L
Dynamical Systems	7	28
Intermediate Graduation Exam	22	Pass
Final Exam	24	Pass

Bachelor degree in "Physics and Astrophysics"

Exam	CFU	Grade
Mathematical Analysis I	12	24
Physics I	12	24
Geometry	12	22
Computer Science	6	26
English	3	Pass
Physics Laboratory I	9	19
Chemistry (Erasmus)	6	20
Mathematical Analysis II	9	21
Astronomy	6	25
Electromagnetism (Erasmus)	8	20
Physics II	15	26
Fluids/Thermodynamics/Statistics	9	25
History of Science (Erasmus)	5	29
Optics Laboratory	6	27
Analytical Mechanics	6	27
Physics of Complex Systems	6	24
Introduction to Astrophysics	6	26
Introduction to Matter Physics	6	24
Introduction to Nuclear and Subnuclear Physics	6	30
Physics Laboratory III	6	24
Quantum Mechanics	12	25
Mathematical Methods	6	23
Computational Techniques for Astrophysics	3	Pass
Final Exam	6	Pass