

Samuele Nicolò Straccialini

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Education

Università Commerciale Luigi Bocconi

Milano (MI), Italy

- Master in Artificial Intelligence
Relevant courses: Software Engineering, Optimization, Linear Algebra – (Exp. Graduation: July 2027) Sep 2025 - Present
- Bachelor in Mathematical and Computing Sciences for Artificial Intelligence
Final Thesis: An exploration of novel heuristics for efficient and accurate k-means clustering – (110/110) Sep 2022 - Jul 2025
Relevant courses: Mathematical Analysis, Linear Algebra, Programming, Algorithms, Machine Learning, Deep Learning, Stochastic Processes, Probability, Statistics, Convex Optimization, Physics

University of Wisconsin-Madison

Madison (WI), U.S.

- Exchange Program – Average GPA: 3.92/4.0
Relevant Courses: Theory of Programming Languages, Cryptography, Dynamical Systems, PDEs, Game Theory, Quantum Physics Sep 2024 - Dec 2024

Professional Experiences

Hephaestus Applied Artificial Intelligence Association

Milano (MI), Italy

- President
Coordinated divisional activities, events, social media, and supervised 60+ memberships. Sep 2025 - Present
- Head of Project AI / ML Python Neuroscience
"Brain2Img": reconstructing visual experiences from brain activity using deep learning, Bayesian inference, and diffusion models to achieve high-resolution, realistic mental imagery decoding. Feb 2025 - Sep 2025
- Head of Project AI / ML Python sklearn PyTorch HTML CSS PHP Databases
"Automatic Quiz Scoring using Machine Learning": led a team in the design and development of a full pipeline to correct some handwritten answer sheets automatically. Feb 2024 - Sep 2025
- Researcher AI / ML Python sklearn
"Predicting ECB interest rate using Machine Learning": developed different predictive models, compared results, and identified the most effective one for our scope. Sep 2023 - Jan 2024

UW-Madison Association Playing for Real

Madison (WI), U.S.

- Member and Developer Unity C#
Collaborated with a team of twenty in developing a deck-building videogame using Unity and C#. Sep 2024 - Jan 2024

Other Activities

- Università Commerciale Luigi Bocconi
Student Ambassador: assisted in events and projects; supported and advised prospective students. Feb 2023 - Present
- TOP - Tutoring Online Project
Volunteer math tutor for students with learning difficulties by supporting them for 50+ hours. Jan 2025 - Jun 2025
- Gelateria "A Casa di Ludo"
Staff Director, Counter Service, Production Lab Summer job since 2019

Projects

- SuBert Python PyTorch AI / ML GPT BART Hugging Face
Developed an end-to-end pipeline for recognizing and translating ancient Sumerian cuneiform using computer vision and Transformer-based models. Achieved a translation similarity score of more than 77% even with scarce data.
- Escape of a Particle from an Intracellular Region (Brownian Motion) Python Simulation
Simulation-based study of Brownian particle escape in a circular domain with a narrow opening, focusing on mean exit times and spatial dynamics.
- Futoshiki Puzzle Solver using Evolutionary Programming Python Evolutionary Computing
Developed a Futoshiki puzzle solver using genetic algorithms and island models to tackle complex constraint satisfaction problems through evolutionary programming. Evaluated multiple strategies to identify the most effective.

Skills

- **Programming:** Python, JavaScript, C, Flutter (Dart), HTML, CSS, Haskell, C#, R, MATLAB, SQL
- **Other IT Skills:** L^AT_EX, Microsoft Office, Notion, Microsoft Access, Power Query, iMovie, AutoCAD, GarageBand
- **Languages:** Italian (Native), English (C1 - Advanced CAE Cambridge, 2021), French (Intermediate B1)