Zeno Peracchione

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Profile —

MSc student in Mathematical Engineering (Statistical Learning track) at Politecnico di Milano, currently working as a Data Science Intern at the Ministry of Education of Luxembourg (SCRIPT Service, Data Division)

Skills

- **Statistics & Machine Learning:** Statistical inference, regression, clustering, Bayesian models, applied ML, deep learning (PINNs)
- **Programming:** Python, R, C/C++
- **Data & Analytics Tools:** PostgreSQL/SQL, Excel, Power BI, Canva
- **Development & Scientific Tools:** Git (collaborative workflows), LaTeX

Languages

Italian (native), English(fluent, FCE B2), Spanish (intermediate)

Experience

Data Science Intern   **Sep 2025 – March 2026**
Ministry of Education of Luxembourg, SCRIPT Service, Data Division   *Luxembourg, Luxembourg*

- Working with ministerial educational data to support daily analytical requests and contribute to external data-driven initiatives (hackathons, public presentations, research projects)
- Developing the MSc thesis project on modeling student outcomes through a trivariate semiparametric expectation–maximization mixed model, adapted to Luxembourgish educational data
- Applying advanced statistical and machine learning methods to explore the influence of socioeconomic, linguistic, and demographic factors on students' performance

Private Teacher   **Sep 2020 – July 2021**
Mathematics and Physics   *Verona, Italy*

- Provided mathematics and physics tutoring to high school students

Teacher Assistant   **June 2018 – August 2018**
Preston Community Pre-school   *Torquay,England*

- Assisted teachers with supervising nursery children in the mornings
- Organized games and activities for elementary students in the afternoons

Education

Master's Degree in Mathematical Engineering - Statistical Learning   **Sep 2023 – Present**
Politecnico di Milano   *Milan, Italy*

- Characterizing courses: Machine Learning, Artificial Neural Networks and Deep Learning, Applied Statistics, Bayesian Statistics, Real and Functional Analysis
- Focus on advanced methodologies for statistical modeling and data-driven problem solving
- Developing expertise in designing, implementing, and analyzing machine learning models

Bachelor's Degree in Mathematical Engineering   **Sep 2020 – Sep 2023**
Politecnico di Milano   *Milano, Italy*

- Developed strong engineering knowledge with a solid mathematical foundation.
- Focused on advanced mathematical, numerical, and statistical methodologies for modeling and solving complex problems
- Acquired expertise in areas such as optimization techniques, data analysis, and computational methods

Scientific High School Diploma   **Sep 2015 – Jul 2020**
Liceo Scientifico Angelo Messedaglia   *Verona,Italy*

- Specialization in Mathematics, Physics, and Latin with participation in the International Scientific Program

Projects

Bayesian Inference for Marketing Mix Modeling   **Sep 2023 – Feb 2024**

Designed a Bayesian model to evaluate the effectiveness of marketing channels and budget allocation using MCMC methods.

Deep Learning for Blood Cells Image Classification   **Sep 2024 – Oct 2024**

Trained CNNs (ResNet, VGG) with transfer learning for image classification, improving accuracy via augmentation and preprocessing.