

# Guglielmo Gattiglio

[guglielmogattiglio.github.io](https://guglielmogattiglio.github.io), [g.gattiglio@gmail.com](mailto:g.gattiglio@gmail.com),  
[www.linkedin.com/in/guglielmogattiglio](https://www.linkedin.com/in/guglielmogattiglio)

For a picture of me,  
see my LinkedIn!

## EDUCATION

---

### University of Warwick

Coventry, UK

- PhD Student – Department of Statistics – **finalist** (Prof. Tamborrino M. and Grigoryeva L.) Oct 2021 – Early 2025
- Research interests: machine learning, Gaussian processes, random neural networks, genAI & LLMs, parallel and distributed computing, generative modeling for time series, probabilistic numerics
- **Publications:**
  - **NeurIPS 2024.** RandNet-Parareal, a time-parallel PDE solver using Random Neural Networks (2024). GG, TM, GL.
  - **Under review.** Nearest Neighbors GParareal: Improving Scalability of Gaussian Processes for Parallel-in-Time Solvers (2024). Authors: GG, TM, GL.
  - **Upcoming.** ProbParareal: A Probabilistic Parallel-in-Time Solver for Differential Equations. GG, TM, GL.

### Bocconi University

Milan, Italy

- Master in Data Science and Business Analytics – major in Data Science Sep 2019 – Jul 2021
- Final GPA: 29.7/30. Graduation mark: 110/110 **cum laude**
- Relevant Coursework: Advanced Statistics, Stochastic Processes, Optimization, Statistical Machine Learning, Deep Learning, Natural Language Processing, Computer Vision
- Final Thesis: *Tempered Stochastic Search of Bayesian CART Models* (Prof. Zanella G.)

### Bocconi University

Milan, Italy

- Bachelor in Economics, Management and Computer Science Sep 2016 – Jul 2019
- Final GPA: 29.8/30. Graduation mark: 110/110 **cum laude**
- Relevant Coursework: Economic Theory, Statistics, Machine Learning, Algorithms, Programming (Python)
- Final Thesis: *Machine Learning for Imbalanced Data. An application to Customer Complaints* (Prof. Durante D.)

### Carnegie Mellon University

Pittsburgh, PA, USA

- Exchange University. Semester GPA: 3.75/4 Jan – May 2019
- Exchange Coursework: Modern Data Management, Advanced Statistics for Data Analysis, Data Mining

## RESEARCH AND WORK EXPERIENCE

---

### Warwick Artificial Intelligence – Student association, University of Warwick

Coventry, UK

Project Lead

2023-24

Student project in collaboration with industry partners Andy Pardoe and WisdomWorks. Combined large language models and computer vision to develop a high-end recommender engine for the housing market.

### Bocconi Institute for Data Science (BIDSA)

Milan, Italy

Student Researcher. Supervisors: Prof. Durante D. and Zanella G.

Mar 2020

Analysis and presentation of seminal and state-of-the-art papers to colleagues and professors. Main subjects tackled: Bayesian Nonparametrics, Probabilistic Machine Learning, Markov Chains and MCMC methods.

### Goldman Sachs

Warsaw, Poland

Summer Analyst in the Technology Division – Software Developer

Jul – Sep 2018

Developed innovative and effective backend infrastructure to improve ease of creation of financial products. Main technologies used: Python and Java.

### IGIER Research Center – Bocconi University

Milan, Italy

Research Assistant. Team leader: Marco Tabellini (Harvard)

Jan– Jun 2018

Explored applications of Natural Language Processing techniques in the economic and social sciences literature. Studied, presented, and applied Latent Dirichlet Allocation to 1920-1930 USA books and congressional speeches, seeking to detect racial themes and understand their connections with immigration.

## CERTIFICATIONS & AWARDS

---

### Certifications

**NVIDIA**, Accelerating CUDA C Applications with Multiple GPUs (Jun 2024)

**NVIDIA**, Fundamentals of Accelerated Computing with CUDA Python (Feb 2024)

### Awards

**Code reproducibility award** at the Third BioInference Conference, held at the University of Warwick

**Travel funding award** from the 38<sup>th</sup> Conference on Neural Information Processing Systems (**NeurIPS 2024**)

## RELEVANT SKILLS

---

### Languages

Italian - Native speaker

French – Level B1

English – Fluent, level C2

German – Actively learning

### Data Science & Programming

Python

MySQL, Tableau

LaTeX

Java

JAX, TensorFlow, PyTorch    Git

R

Proficient with main **ML/AI Python frameworks**. Experience with software deployment and **docker**, Linux servers, Slurm workload manager, Javascript, web servers (Python Flask, NGINX), and backend development. Experience with robotics and Arduino. Experience with **cloud computing** (AWS/Google Cloud) and **LLM frameworks** (e.g. Hugging Face, Langchain).

### Teamwork

I firmly believe that teamwork, collaboration and sharing of ideas are as important as being able to work independently and self-responsibly. I am self-driven, hard-working and able to prioritize. In the workplace, I am sociable and friendly.

## TEACHING (selected)

---

**University of Warwick – Department of Statistics** - Senior Graduate Teaching Assistant

- ST346: *Generalised Linear Models for Regression and Classification*. Bachelor level (2024)
- ST420: *Statistical Learning and Big Data*. Master level (2023)
- ST202: *Stochastic Processes*. Bachelor level (2022)

**University of Warwick – Warwick Business School (WBS)** - Senior Graduate Teaching Assistant

- IB9CS: *Big Data Analytics*. Master level (2022)

**Bocconi University** – Teaching Assistant

- *Python Programming for Economics, Management and Finance*. Bachelor level (2020)

## ABOUT ME

---

Passionate about problem solving, regardless of the discipline: math competitions, programming hackathons, complex data science projects, robotics applications. I am curious, I like to explore different fields of knowledge and ask myself scientific questions about the things I read or that I discover through my hobbies and interests.

**Interests.** Self-improvement, machine learning, hardware electronics, statistics, psychology, hiking in nature, rock-climbing, history and technology of medieval metallurgy, bow-making.

**Hobbies and sports.** I enjoy running, skiing, cycling, and cooking. In the past, I did Judo for 5 years at a competitive level.