Giovanni Michele Giorgis

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Education

ETH Zurich — *Zurich, Switzerland*
M.Sc. in Mathematics — *Sept 2023 – April 2025*

- **Coursework:** Mathematics of Information, Neural Network Theory, Mathematics of Data Science, Graph Theory, Functional Analysis, Introduction to geometric measure theory, Calculus Of Variations.
- **Thesis Project:** Separating Capacity in Infinite Dimensions
  Supervisor: Professor Helmut Bolcskei
- **Research Project:** Approximation rates of transformer networks
  Supervisor: Professor Helmut Bolcskei

University of Turin — *Turin, Italy*
B.Sc. in Mathematics — *Sept 2020 – July 2023*

- **Final Grade:** 110/110 with Laude
- **Bachelor Thesis:** Introduction to Optimal Control Theory
  Supervisor: Professor Susanna Terracini

Collegio Carlo Alberto — *Turin, Italy*
Diploma in Economics and Applied Mathematics — *Sept 2021 – July 2023*

- **Final Grade:** distinction
- **Relevant coursework:** Game Theory, Microeconomics, Optimisation for economics.

Honors and Awards

Collegio Carlo Alberto — *Turin, Italy*
Allievi Honors Program — *Sept 2021 – present*

- Competitive admission to a study program in applied mathematics, statistics and economics.
- Admission is based on a nationwide selection process.

Scholarship BRAVINRICERCA — *Cuneo, Italy*
Cassa di risparmio di Cuneo Foundation — *Sept 2020 – July 2023*

- Awarded to outstanding students excelling in STEM disciplines.

Outstanding Graduation Scholarship — *Cuneo, Italy*
Bank of Caraglio — *Sept 2020*

- Recognized for exceptional performance in the High School final examination of 2020.

National finalist of "Giochi Matematici" — *Milan, Italy*
Bocconi Mathematical Games — *May 2015*

Professional Experience

Research Assistant — *Zurich, Switzerland*
ETH Zurich — *May 2025 – present*

- Research assistant on applied Game Theory at the Chair for Macroeconomics, Innovation and Policy.

Teaching Assistant — *Turin, Italy*
University of Turin — *Jan 2023 – June 2023*

- Supported students in Analysis II by conducting exercise sessions.

Software Developer — *Cuneo, Italy*
Bagubits and NORD-OVEST Spa — *Summer 2018 and Summer 2019*

- High school summer internship.

Extracurricular Activities

Summer School Theoretical Foundations of Machine Learning — *Genoa, Italy*
Machine Learning Genoa Center — *23 - 27 June 2025*

- Advanced PhD-level course focusing on the theoretical foundations of machine learning.

Zurich Undergraduate Colloquium (ZUCCMAP) — *Zurich, Switzerland*
Speaker — *19th November 2024*

- **Title:** Optimal Function Approximation with Deep Neural Networks: A Mathematical Perspective (Talk).

Talent Kick Program — *Switzerland*
Jan 2024 – Sept 2024

- Talent Kick is a highly selective, cross-university program that combines academic studies with an entrepreneurial journey.
- Selected through a competitive national process.

Excellence Track at University of Turin — *Turin, Italy*
Feb 2021 – July 2022

- Participated in a cycle of seminars exclusively for the top students in the Department of Mathematics, organized by the University of Turin.
- **Seminars Attended:** Invariants in Knot Theory, Recursion and Generating Functions, Sum of Squares and Generalizations, Minimum Problems and Introduction to Optimal Transport.

Allievi of the Collegio Carlo Alberto Association — *Italy*
Member — *Sept 2021 – Present*

- **Notable Activity:** Organized the Roundtable "Financial Literacy: Didactical Approaches and Macroeconomic Externalities" as the launch event of the Financial Literacy Project by the Allievi of the Collegio Carlo Alberto Association (Guests Included: Carlo Cottarelli, Elsa Fornero).

Personal Activities

International Volunteer Teacher — *Cape Town, South Africa*
Capricorn Primary School — *Sept 2024*

- Participated in a volunteer program in the Capricorn township.
- Contributed to enhancing the learning environment for disadvantaged children.

International Volunteer Teacher — *Cape Town, South Africa*
Christian David Moravian Primary School — *July 2022 – Aug 2022*

- Participated in a volunteer program in the Capricorn township.
- Contributed to enhancing the learning environment for disadvantaged children.

Soccer Player — *Turin Area, Italy*
Various Local Teams — *2017 – 2023*

- Played in the 5th national Italian league.
- Earned a salary that helped support my studies financially.

Skills

Languages
- Italian (Native), English (Proficient, C1), French (Basic), Spanish (Basic)

Programming Languages
- Python, R, C, PHP.

Markup Languages
- LaTeX