

# Gabriele Bettineschi

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## Education

### BSc in Mathematical and Computing Sciences for AI - Bocconi University

Milan, IT; Sep 2023 – Jun 2026

GPA: 29.8/30. Coursework: Mathematical Analysis I and II, Linear Algebra, Probability, Physics I, Computer Science (C, Py), Algorithms, Economics.

### Year-long merit program - Sant'Anna School of Advanced Studies

Pisa, IT; Oct 2021 – Sep 2022

Selected as one of 200 students across all Italy. Attended a broad range of introductory lectures spacing from biorobotics to patents regulation.

### Scientific and Humanities Studies - Liceo C. Golgi

Breno BS, IT; Sep 2018 – Jun 2023

5-year high school diploma. Coursework: Mathematics, Physics, Biology, Chemistry, Philosophy, History (from Ancient to Contemporary), Latin.

## Professional Experience

### Product designer and Software engineer - Lead The Future Mentorship

Remote; Dec 2023 – present

Co-heading design and helping development of a Slack bot to streamline event organization within the community. Using: TypeScript, Vercel.

### Researcher: simulating natural evolution - Bocconi Students for Machine Learning

Milano, IT; Sep 2023 – present

Engineering and using DarwinSim, an agent-based simulation environment aimed at modeling and reproducing natural evolution dynamics.

Defining and implementing features, running simulations, storing, plotting and analyzing data in team. Using: Python, numpy, matplotlib.

### Project Lead: sentiment analysis - Hephaestus Applied AI

Milano, IT; Sep 2023 – Feb 2024

Guided the team through a didactical project on tweets. Preprocessed, explored and split dataset; vectorized with TF-IDF; trained, evaluated, saved and used three models: BernoulliNB, LinearSVC, Logistic Regression. Achieved 82% accuracy with the last one. Link to GitHub.

### Consultant for startups - Build Sustainable Innovation

Milano, IT; Sep 2023 – Jan 2024

Advised a startup in creating a smart companion robot. Researched the market, analyzed competitors and outlined the value proposition.

### Co-founder - Testate Podcast

Malegno BS, IT; Nov 2021 – Jan 2024

2.7M VIEWS AND 20,000 HOURS LISTENED WITH 10 EPISODES

- Took care of everything, top to bottom: designed the brand and the format, defined the strategy, sourced guests, conducted interviews, managed production, distributed video and audio on all social and media platforms, directed communication and marketing.
- Amongst the guests: a Ph.D. student in ML at MIT, Italy's best-known mathematician Piergiorgio Odifreddi, the founder of Will Media and the political party NOS Alessandro Tommasi, an energetic engineer and environmental activism leader, a vice world champion in bodybuilding.

### Student Government President - Liceo C. Golgi

Breno BS, IT; Oct 2021 – Oct 2023

LED 1,200 STUDENTS AND REPRESENTED 52,000 FOR 2 CONSECUTIVE YEARS

- Won the election obtaining, as an individual among 12 candidates, 79% of all the preferences.
- Attained a 40% cost cut for families and students by revising thoroughly the school budget.
- Held speeches, gatherings, and events for more than 1200 people. Represented and voted for 52,000 students in the Regional Council.

## Academic Honours

### National Math Olympiad in teams, 18<sup>th</sup> place, Team Senior Member, 1324 teams

Cesenatico, IT 2023

### National Math Olympiad, Bronze medal, 200,000 students

Cesenatico, IT 2022

### National Excellence award, listed in the register by the Italian Ministry of Education

Rome, IT 2022

### National Italian Language Olympiad, Finalist, 43,000 students

Rome, IT 2022

### Regional Debate olympiad, Silver medal, Team Captain

Brescia BS, IT 2022

### National Math games Kangourou, 13<sup>th</sup> place, 100,000 students

Cervia, IT 2020

## Extracurricular Activity

### Member - Nova talent network

Sep 2023 – present

Entered the global merit-based access network Nova as one of the youngest admitted ever. Obtained full financial aid, very rarely granted.

### Mentee and event coordinator - Lead The Future STEM mentorship

Jun 2022 – present

- Passed the selection with 13% acceptance rate; engaged with top Italian STEM professionals from the world's leading realities such as Deepmind, Apple, Meta, Amazon, Stanford, Harvard, MIT.
- Coordinating events in Milan gathering mentors, startup founders and individuals from great firms such as Optiver, Gumroad, Bending Spoons.

### Rowing Italian Champion and crew captain - Italian Rowing Federation

Sep 2012 – present

Gold and Silver at the National Championships. Three-time medalist at the National University Championships. Completed two marathons.

### Boy Scout - AGESCI

Sep 2012 – Jun 2023

11 years of team-working, community life, make-doing and service.

## Projects

### Computing and plotting the three body problem

Mar 2024

Built a script to simulate and visualize the trajectories on the plane of any number of bodies influenced by the others' gravitational force under customizable system parameters. Used: Python, numpy, matplotlib.pyplot. Link to GitHub.

### Simulating and determining school election results

Sep 2021

Developed a script to analyze hypothetical vote distributions across scenarios with different numbers of candidate lists and individuals.

Determined the threshold required to secure victory in each scenario and used the insight to define my campaigning strategy. Used: Python.

### Analysis of political awareness and study habits in Gen Z

Sep 2021 – Jan 2022

Formulated 63 questions, conducted 2 surveys, got 500+ answers, cleaned data, considered 400+ pairwise correlations, identified the statistically relevant ones and graphed data. Used: forms, Google Sheets, Google Data Studio (now Looker Studio), Flourish.