Simone Testino

I teach mathematics, logic and computing. I design materials that help students move from an intuitive picture to a precise argument they can explain, test and use on an unfamiliar problem.

CONTACT

Contact Simone
Teaching method

LANGUAGES

Italian Native
English C1
German C1

PROFILES & WEBSITES

GitHub
LinkedIn
simonetestino.pages.dev

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Academic background

2024–present
Amsterdam

University of Amsterdam · Institute for Logic, Language and Computation

MSc in Logic

I completed the taught requirements of this two-year programme in one academic year. My thesis in progress studies how to represent and check translations between theories in Isabelle/HOL. Expected July 2027.

I studied philosophy and mathematics concurrently, completing the philosophy degree and most of the mathematics coursework in two academic years.

BA in Philosophy

LMU Munich, July 2024. Mathematics minor. My thesis on syntactic structures brought mathematical logic into dialogue with the philosophy of language.

BSc in Mathematics

LMU Munich, in progress. Coursework in commutative algebra, model theory and measure theory. My mathematics thesis was assessed in December 2024.

Teaching through research

I built my own AI skill to turn one research question into five linked teaching resources. Students can follow an argument in class, check its assumptions and apply it to a new problem.

Interactive handbook

I place short exercises beside the definitions they use. Readers predict how a diagram will change, then vary an input to check their reasoning.

HTML · CSS · JavaScript

Class talk

I pause at the crucial step and ask students how they would justify it.

LaTeX Beamer · HTML

Research paper

The paper gives the full argument, its assumptions and the sources a reader can check after class.

LaTeX

Code and proofs

Students run an example, change an assumption and use the proof assistant to find which steps still hold.

Python · Isabelle/HOL · Lean 4

Teaching example · An interactive companion to Bokai Yao's work on forcing

Mathematical video

I animate each step of a construction, edit the narrated sequence and add captions. Students can explore the same figure in the handbook.

Python · Manim · FFmpeg · WebVTT captions

Teaching experience

Futura · Live online classes · 2024–2026 · Two years and two months

Mathematics, Logic and Physics

At Futura, an Italian exam-preparation provider, I wrote problems and led live classes for university entrance and competitive exams. Students compared solution methods in class. In August 2025 I taught an intensive course for health professions applicants.

236
pages in two mathematics manuals for oral examinations.

200
abstract and spatial reasoning questions illustrated with Python and Manim.

> I checked the reasoning and answer key for each AI-assisted practice question before using it in class.

What I would assess in an AI-assisted course

In an introductory logic or computing course, I would give students AI-generated code that passes its examples and ask for an input that breaks its specification. In a graduate seminar, I would ask them to formalise a property of an option-pricing rule, change one assumption and explain whether their proof still holds.

Example lesson · Introductory programming

From a rule to a Python implementation

Students translate a rule into Python, test boundary cases and defend a correction in a code review. I would assess how clearly they explain the assumptions behind the implementation.

Software development and entrepreneurship

I founded ColivingLiguria S.r.l. in March 2026. I began developing the venture in June 2025 by preparing my own application for a regional start-up grant.

My three Python and SQL systems supply examples for class. Students can trace a duplicated booking total to the database join that caused it.

Living Register

Connects residents, bookings and stays.

Business Register

Links organisations to projects and proposals.

Financial Register

Traces cash movements to their source records.

In grant advisory and building information modelling, I work with technical collaborators to turn source documents into budgets and reviewable project records.

Software and data

Python ■■■■■■

SQL ■■■■■□

I build data pipelines in Python and use relational queries to trace their results.

Teaching media

LaTeX automation ■■■■■■

Manim ■■■■■□

I typeset course materials in LaTeX and use Manim, a Python animation library, to explain mathematical constructions in 2D and 3D.

Developing my proof skills · In my planned six-month research project in Bologna (January–July 2027), I intend to use Isabelle/HOL and Lean 4 in computational finance. I am also learning Rust and exploring Aeneas for verifying Rust programs.