Simone Testino

I work in mathematical logic and philosophy, develop research and teaching materials, and build software for investment planning and grant finance.

CONTACT

Contact Simone
Research and studies

LANGUAGES

Italian Native
English C1
German C1

PROFILES & WEBSITES

GitHub
LinkedIn
simonetestino.pages.dev

01 Education 02 Work experience 03 Technical skills

01 Education

Study pace. Completed the Philosophy BA and most Mathematics BSc coursework in two academic years (2022–24). Mathematics BSc in progress; thesis completed and assessed. Completed all required taught Master of Logic courses in one academic year; master's thesis in progress.

SEP 2024
PRESENT

Amsterdam

MSc Logic

THESIS IN PROGRESS

University of Amsterdam / ILLC · Required taught courses completed in one academic year; thesis in progress.

WORKING THESIS TITLE

Mechanising Structuralism: Structural Languages and Theory Translation in Isabelle/HOL

RESEARCH INTERESTS AND SELECTED WORK

Theory translation, finite models, reliable AI and databases. My approach to sharing research links an HTML handbook, a lecture (Beamer/HTML), a LaTeX paper, code and proofs (Python, Isabelle/HOL, Lean 4), and a Manim video. See my companion to Bokai Yao's forcing with urelements.

LOGIC & SEMANTICS

Proof Theory
Dynamic Epistemic Logic
Structures for Semantics
Knowledge Representation and Reasoning
Topology, Logic and Learning

PHILOSOPHY

Science · Logic · Mathematics

OCT 2022
JUL 2024

Konstanz to LMU Munich

BA Philosophy

AWARDED

Ludwig-Maximilians-Universität München · Mathematics minor

BACHELOR THESIS

A Formal Approach to Syntactic Structures: Language Theory as a Field in Mathematical Logic

SELECTED TOPICS

Modal logic and philosophical applications
Philosophy of physics
Philosophy of science and epistemology

OCT 2022
PRESENT

LMU BSc enrolment from April 2024

BSc Mathematics

IN PROGRESS

Ludwig-Maximilians-Universität München

Thesis completed and assessed; final coursework remains.

SELECTED ADVANCED TOPICS

Commutative algebra · Advanced set theory
Model theory · Analysis III: measure theory and multivariable integration

02 Work experience

ENTREPRENEURSHIP
AND CONNECTED DATA
SYSTEMS

ColivingLiguria S.r.l.

FOUNDER · INCORPORATED MARCH 2026

FOUNDER
SOFTWARE AND GRANT FINANCE

I began developing the venture in June 2025 by preparing my application for Liguria's ERDF start-up grant (Action 1.3.3). I integrated website account interfaces with Python/SQL backends. Requirements, data architecture, AI-assisted development and operational investment planning.

SQL-backed registers

3 SYSTEMS
OPERATIONAL DATA MODELS

LivingRegister

Implemented email-code login, account profiles and API-backed data export. Modelled people, spaces, applications and document variables in Python and SQL.

Python / FastAPI / SQL / SQLite

BusinessRegister

Implemented organisation and delegated-access profiles, proposals and source lineage and revision history in SQL-backed workflows.

Python / FastAPI / SQL / SQLCipher

FinancialRegister

Integrated source-backed financial records with investment planning and the other registers, using double-entry records and controlled public projections.

Python / SQL / SQLCipher / TypeScript

ENGINEERING PRACTICE

Relational schemas; API contracts; backend/frontend integration; source review and iterative testing; provenance and controlled public data views.

COMPLEX ENGINEERING DATA

Skill BIM

Designed a multidisciplinary workflow connecting survey evidence, structured building data, IFC identities and cross-record validation.

Python / JSON Schema / IFC data modelling

AI-assisted backend and 3D workflow coordination. Building models remain in development.

FINANCE AND ENTREPRENEURSHIP

Grant advisory & investment

European, national and regional grants for public authorities and companies: funding research, applications and investment planning.

ColivingLiguria S.r.l.

Approved investment	Grant awarded
€200,000.00	€120,000.00

Individual business

Approved investment	Grant awarded
€185,857.10	€111,514.26

Separate beneficiaries and approved programmes. Grants awarded; payments follow programme conditions.

03 Technical skills

Python	■■■■■■	I build data services with FastAPI and animate mathematical diagrams with Manim, a Python library for 2D and 3D scenes.
LaTeX automation	■■■■■■	Python and SQL workflows for generating and compiling documents.
SQL	■■■■■□	Relational modelling, queries and data provenance in SQLite and SQLCipher.

Learning in progress · Lean 4 · Isabelle/HOL · Rust · Aeneas

I use AI-assisted drafting and check small proof exercises in Isabelle/HOL. In a planned six-month research project in Bologna (January–July 2027), I aim to formalise proofs in Lean and Isabelle and explore how Aeneas translates Rust programs into Lean.

ADDITIONAL EXPERIENCE

Online mathematics and logic tutoring.

OUTDOOR INTERESTS

Climbing · mountain biking · spearfishing.