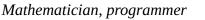# Sebastiano Tronto

Mathematician, programmer

🌐 sebastiano.tronto.net

✉ sebastiano@tronto.net

📍 Leiden, NL

About me

Mathematician with focus on elliptic curves and computational aspects of number theory. Hobbyist programmer (C, Python, Java) with strong algorithm design skills. UNIX sysadmin enthusiast. Looking for a non-academic job and challenging problems to solve.

Education

2018-2022 — **PhD in Mathematics:** Joint PhD at the University of Luxembourg and the University of Leiden, with a thesis on *Kummer theory for elliptic curves*. Expected defense date September 2022.

2016-2018 — **Master's degree:** Double master degree in Mathematics at the University of Milan and the University of Leiden (ALGANT program). Special focus on algebra, algebraic geometry and number theory. Graduated *cum laude* at the University of Milan and *summa cum laude* at the University of Leiden.

2013-2016 — **Bachelor degree:** Bachelor degree in Mathematics at the University of Trento. Graduated *with honour*.

Academic work

- **Strong research output:** 7 published research articles and 3 preprints, both in team and alone. Multiple invited talks at international conferences and research seminars.
- **Award-winning teaching skills:** Thanks to outstanding feedback for my course *Mathematical software* I received the *University of Luxembourg teaching award* in 2021.
- **Project supervision:** I supervised and lead several student projects at different levels.

Links: sebastiano.tronto.net/research

Programming

- **Strong algorithm design and implementation skills:** Multiple participations and awards in national programming contests during high school, International Olympiads in Informatics in 2012 and ACM-ICPC regional participation in 2017.
- **Programming languages:** Good knowledge of C and intermediate level of C++, Python, Java, UNIX shell and more.
- **Computer algebra software** Proficient usage of computer algebra software for research, such as SageMath. Implemeneted a new algorithm described in one of the research papers of my team.
- **Personal projects:** My most ambitious project is a high-performance command-line Rubik's cube solver. I also mantain a collection of shell scripts for my daily use.

Links: sebastiano.tronto.net/git, github.com/sebastianotronto

Other skills

- **Languages:** English (fluent), Italian (mother tongue), French (basic).
- **Linux / UNIX:** Intermediate sysadmin skills. I mantain my personal server running OpenBSD and I have for several years helped organize various activities, such as *installation parties* and *Linux Days*, with a local Linux User Group.
- **Hobby:** I am a world-class *speedcuber*. I currently hold a world record for finding the most efficient solution for the Rubik's cube, as well as several national records across different events.
- **Leadership skills:** I am the leader of the disciplinary committee of the international no-profit *World Cube Association*.