Matteo Giorgi

Education

- MSc in Computational Finance, Department of Mathematics University of Padua (in progress as of 2025)
- BSc in Computer Science, Department of Computer Science University of Pisa (summa cum laude 110L/110)
- BEng in Mechanical Engineering, Department of Industrial Engineering University of Pisa (not completed)

Programming & Software

- LANGUAGES C/C++, Java, Python, JavaScript, Go, Scheme, OCaml, Haskell, Bash, AWK
- UNIX GNU/Linux and BSD system management, C system programming and good knowledge of POSIX standard
- TOOLS Experience with various software such as Vim, Emacs, Git, Docker, LaTeX, MATLAB, Wolfram Mathematica
- EXTRA Knowledge of SQL, HTML and CSS

Relevant Experience

- TOODY Python web application for the detection of variability indicators in requirements documents of software systems, written for my BSc thesis. The application uses Spacy for NLP analysis and Flask for the web interface.
- LAB-ASSISTANT Worked, in support of Professor Pelagatti, as lab assistant for the *C* laboratory exam at BSc in Physics at the *University of Pisa*. The main task was to help students during the exercise sessions and to correct their assignments.
- **CNR-PROJECT** Worked, together with a colleague of mine, as a *Python* programmer inside the *CNR* offices in Pisa, helping in the realization of a scale model for blind people. The project was under the supervision of Doctor Furfari from *CNR* and Professor Pelagatti from the *University of Pisa*.
- PODEEN Public repository containing a collection of configuration files and installation scripts for a complete and efficient minimal *UNIX* work environment based on any *Debian* distribution.
- **ASTEROIDS** *JavaScript* implementation of the popular game *Asteroids*. The game is written using the *p5.js* library and is particularly useful to understand the basics of *Event Programming*.
- RSA-REPORT Independent studies, under the supervision of Professor Romani from the *University of Pisa*, regarding the attacks that exploit the RSA cryptosystem vulnerabilities with a specific focus on the Wiener Attack and its use of Continued Fractions for the factorization of the RSA module.
- HACKATHON First place in the 2021 edition of *ContHackt*, organized by the *University of Pisa* and *Contamination Lab Pisa*. As winner, our team had access to the 2021/2022 *EUAcceL* project organized by the *European Institute of Innovation and Technology* and won the final stage with a blockchain prototype for the tracking of food products.

Languages

- ENGLISH Advanced proficiency in speaking and writing, Cambridge C1 Advanced (IELTS 7.0) certification
- FRENCH Basic understanding in speaking and writing, DELF A2 certification
- ITALIAN Mother tongue

Areas of Interest

- Being a student of Computational Finance, I am particularly interested in Numerical Approximation and Mathematical Programming. Specifically Stochastic Optimization and its applications in the field of Portfolio Management.
- I am very keen on programming languages and I often find myself playing with a new language trying to improve my skills; this has made me focused on *Functional Programming*, experimenting with languages such as *Ocaml* and *Haskell*.
- Cryptanalysis is another field that I find fascinating. I spent some time studying Lattice Theory and its implications regarding Elliptic Curve and Post Quantum Cryptography.

Competitive Sports

- I have more than ten years of sailing activity at both national and international level in *Optimist*, 420, and 470 classes, most of which among the ranks of the Junior National Team. I competed in several prestigious regattas, above all *Kiel Week* and *Barcolana* as the two largest sailing events in the world.
 - NATIONAL Ranked first once and qualified among the first ten Italian Juniors other four times. Notably, winner of the *Young Barcolana*, *Mediterranean Cup* and *Trofeo Accademia Navale Juniores*.
 - INTERNATIONAL Competed, as a member of the Italian National Team, in one *World Championship* in Qingdao (China), three *European Championships* in Tavira (Portugal), Dublin (Ireland), and Riva del Garda (Italy), and finished as runner-up in one *European Team Championship* in Berlin (Germany).
- As a side activity, I have practiced running at a discrete level, participating in several 10km and half-marathons. I have also took part in a few long-distance races, such as the *Etna Marathon* at over 3000m above sea level.

HOME • GITHUB • MAIL • MEET