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 Claboratory 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.

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