Luigi Marangio

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Personal Website: Portfolio
Websites: linkedin
ResearchGate
GitHub
Google Scholar

Summary

I'm an Algorithm Developer at Randstad, currently I am working on a Python project to optimize automation processes for one of the world's leading logistics companies. I love to model and solve real-world problems, relying on my mathematical background and programming.

During my two Ph.D. I produce high-quality research at the crossroad of mathematics and computer science, applying theoretical concept to concrete problems with hands-on experience in making algorithms. Strong communication skills forged through numerous teaching experiences (French/English/Italian), participation in international congresses and conferences, work experience abroad.

When I'm not doing math: international volunteering, travel addicted, trading, avid reader, amateur grower, meditation, juggling, +10 years vegetarian.
Check out my Portfolio!

Work Experience

Nov 2021–Jan 2021 | **Algorithm Developer** at **Randstad**, Milan, Italy
Working on a Python project to optimize automation processes for one of the world's leading logistics companies

Jul 2021–Oct 2021 | **Researcher** at **Math department**, Pisa University, Italy
Worked in the international dynamical system team, developing a Fourier-based method for rigorous computations of statistical properties of random dynamical systems.

May 2020–May 2023 | **Honorary Fellow in Mathematical Analysis** at **Math department**, Pisa University, Italy
Worked in the mathematics department in Pisa, supporting the exams activities and providing administrative help

Sep 2017–Apr 2021 | **Ph.D** at **Pisa University**, Mathematics department, Italy
Worked in the mathematics department in Pisa, successfully developing the math part related to my thesis project.

Thesis title: Rigorous computational methods for understanding the statistical behavior of random dynamical systems.

Here, you may find a nice overview to a part of my Ph.D work, which has been cited in the 2021 Nobel prize for physics literature.

Check out my publications at Google Scholar

Sep 2017–Avr 2021	**Ph.D** at **Bourgogne Franche-Comté University**, Computer Science and Complex Systems department, France Worked in the computer science department in Belfort, successfully developing the scripts and algorithms necessary to my thesis project; participated at various cryptography projects related to pseudo random number generators.
	Check out my scripts at GitHub
Mar 2020– Jan 2021	**Assistant Teacher** at **Mathematics, Calculus 1**, Pisa University, Italy
Oct 2020–Mar 2021	**Visiting Researcher** at **Mathematics**, Universidade Federal do Rio de Janeiro, Brazil
Jan 2019–Jun 2019	**Teacher** at **Computer Science, Numerical Analysis**, IUT-BM Informatique, Université Bourgogne Franche-Comté, France
Jan 2019–Avr 2010	**Assistant Teacher** at **Computer Science, Object-based programmation**, IUT-BM Informatique, Université Bourgogne Franche-Comté, France

Programming Proficiency

Languages:	Python (proficient), Julia(proficient) Octave/Matlab (familiar), C(familiar), SQL (learning), R (learning), Tableau (learning), Java (learning)
Libraries:	ArbNumerics.jl (proficient), Interval Arithmetics.jl (proficient), Scikit-learn (proficient), Gensim (proficient)
Misc:	Category Theory, abstract algebra

Languages

Languages:	Italian (mother tongue, English (proficient) , Brazilian Portuguese (familiar), French (familiar)

Ongoing work

Courses:	Google Data Analytics Professional Certificate — Coursera Dutch — Duolingo
Article in progress:	[L. Marangio, I. Nisoli, S. Galatolo] A posteriori validated numerical method for the computation of stationary measures based on Fourier approximation
Julia package in progress:	[I. Nisoli, L.Marangio] NoiseFourier.jl