

GIACOMO VACCARIO

Physicist and Data Scientist

@ gvaccario@ethz.ch

✉ Birchstrasse 34, 8057

📍 Zürich, Switzerland

🌐 github.com/giava90



EXPERIENCE

PhD candidate

ETH Zürich

📅 October 2015 – Ongoing

📍 Zürich, Switzerland

- Developing new models and measures to study the diffusion of knowledge in socio-technical systems. Supervisor: Prof. Dr. Dr. Frank Schweitzer.
- Research sector: Complex systems & Network science

Postgraduate Researcher

LPTMC Université Pierre-et-Marie-Curie

📅 March 2015 – October 2015

📍 Paris, France

- Analyzing and simulating the first passage time process in heterogeneous media. Supervisor: Dr. Julian Talbot.
- Research sector: Stochastic processes & First passage time

Quantitative Consultant

AGT Engineering S.R.L.

📅 December 2014 – June 2015

📍 Rome, Italy

- Developing an algorithm to detect fraud and losses in electric networks. Team Leader: Ing. Filippo Ugolini

PUBLICATIONS

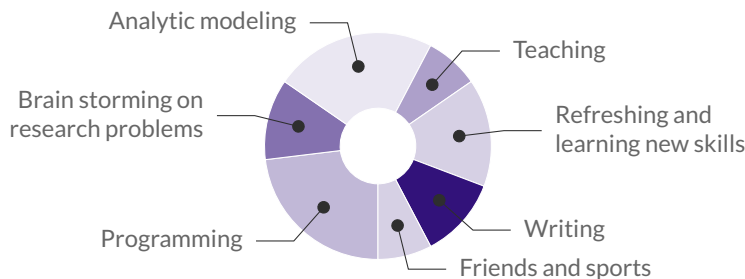
📄 **Patents**

- Vaccario, Giacomo, Filippo Ugolini, et al. (2016). *Method for determining electrical losses of a power line, due to a malfunctioning or tampering of an electricity meter and/or to an illegal connection to said power line*. WO Patent App. PCT/IT2016/000,145.

📄 **Journal Articles**

- Tomasello, Mario V., Vaccario, Giacomo, and Frank Schweitzer (2017). "Data-driven modeling of collaboration networks: a cross-domain analysis". In: *EPJ Data Science* 6.1, p. 22.
- Vaccario, Giacomo, Medo, Matúš, et al. (2017). "Quantifying and suppressing ranking bias in a large citation network". In: *Journal of Informetrics* 11.3, pp. 766–782.
- Vaccario, Giacomo, Tomasello, Mario V., et al. (2017). "Quantifying knowledge exchange in R&D networks: A data-driven model". In: *Journal of Evolutionary Economics* (submitted). Available at ArXiv.
- Vaccario, Giacomo, Charles Antoine, and Julian Talbot (2015). "First-passage times in d-dimensional heterogeneous media". In: *Physical Review Letters* 115.24, p. 240601.

A DAY OF MY LIFE



EDUCATION

M.S. in Theoretical Physics
(cum laude)

Sapienza, University of Rome

📅 Sept 2012 – Feb 2015

M.S. in Mathematics

University of Cambridge

📅 Sept 2011 – June 2012

B.S. in Physics

Sapienza, University of Rome

📅 Sept 2008 – Sept 2011

STRENGTHS

Modeling

Complexity

Networks

Data Science

Scientific Computing

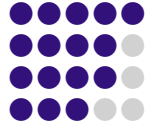
PROGRAMMING SKILL

C

Python

SQL

R



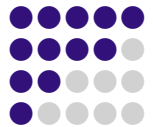
LANGUAGES

Italian

English

French

German



REFEREES

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8092 – Zürich, SWITZERLAND

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75252 – Paris, FRANCE

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00192 – Rome, ITALY