Dr. Samuel Gaucher

Consultant | Data Scientist | Physics PhD

Quantitative financial risk management consultant with demonstrated experience solving complex problems for high-profile clients in the German banking industry. Academic scientist cumulating 6+ years of cutting-edge research in quantum technologies, using programming on a daily basis to extract the most out of large experimental datasets. Goal-oriented mindset with outstanding teamwork skills, ideal to develop and maintain professional relationships in fast-paced environments.

PROFESSIONAL EXPERIENCE

05.2021

CONSULTANT - QUANTITATIVE RISK MANAGEMENT Ernst & Young

- » Valuation of complex financial products/derivatives using Python.
- » Implemented risk models for new software at a large German bank.
- » Client work linked to Fair-AI in European regulatory landscape.

02 2016 - 11 2019 3.5 years

EXPERIMENTAL PHYSICIST

Paul-Drude-Institut für Festkörperelektronik (PDI)

- » Developed Python code to analyzed complex experimentl datasets.
- » Obtained groundbreaking results leading to 1 patent, 4 publications.
- » Communicated results to audience in 8+ international conferences.

01.2014 - 12.2015

EXPERIMENTAL PHYSICIST

McGill University

- » Developed novel nanofabrication methods to access exotic physics.
- » Established building blocks for a new type of quantum bit.
- » Contributed to results complied in 1 scientific publication.

01.2014 - 12.2015

TEACHING ASSISTANT

McGill University

- » Perfected mentoring skills by instructing 200+ undergraduate students.
- » Responsible to evaluate and grade academic work in physics.
- » Promoted academic success by giving constructive feedback.

2007 - 2021

MUSICIAN (Violin, Piano)

Self-employed

- » Performed with 3 classical/jazz ensembles in 100+ concerts and gigs.
- » Recorded 2 albums.
- » Taught 25+ students.

EDUCATION

04 2016 - 03 2021 |

Dr. rer. nat., PHYSICS (magna cum laude)

Humboldt Universität, Berlin

01.2014 - 12.2015 |

M.Sc., PHYSICS

McGill University, Montreal

09.2010 - 12.2013 |

B.Sc., major PHYSICS, minor PHILOSOPHY

McGill University, Montreal

ACTIVITIES

- » Elected spokesperson for the graduate students at PDI (2017-2019)
- » Volunteer for the Falling Walls Foundation at the Berlin Science Week (2019)
- » Young Entrepreneurs in Science Leipzig Workshop (2019)
- » NSERC-CREATE Trainee Integrated Sensor Systems (2015)
- » Organizer of the Physics Games at McGill University (2015)
- » High-school elected representative/student body president (2001-2010)



CONTACT DETAILS

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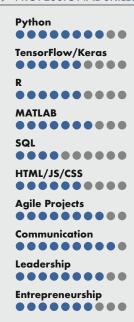
LinkedIn

linkedin.com/in/samuelgaucher

Website

https://gaucher.io

PROFESSIONAL SKILLS



EXPERTISE



LANGUAGES

French (native)
English • • • • • • • • •
German • • • • • • • • •
Italian