Samuel Gaucher

Physicist & Data Scientist

Accomplished scientist with 6+ years of experience leading R&D projects aimed at solving the scaling challenges of the semiconductor industry. Demonstrated experience solving complex problems connecting science and data analytics, handling large datasets with Python. Goal-oriented mindset with outstanding teamwork skills, ideal to develop and maintain professional relationships in fast-paced environments.

PROFESSIONAL EXPERIENCE

2016 - 2019 3.5 years

EXPERIMENTAL PHYSICIST

Paul-Drude-Institut für Festkörperelektronik (PDI)

- » Successfully managed a research project in quantum nanoelectronics.
- » Analyzed large and complex datasets using own Python code.
- » Implemented data engineering solutions to conduct scientific experiments.
- » Obtained groundbreaking results leading to 1 patent, 4 publications.
- » Communicated results to audience in 8+ international conferences.

2014 - 2015 2 years

EXPERIMENTAL PHYSICIST

McGill University

- » Developed nanofabrication methods to access new exotic physics.
- » Established building blocks for a new type of quantum bit.
- » Collaborated to code Python instrument interface for data collection, saving more than 1000€/year in proprietary license fees.
- » Contributed to results complied in 1 scientific publication.

2014 - 2015 2 years

TEACHING ASSISTANT

McGill University

- » Perfected mentoring skills by instructing 200+ undergraduate students, teaching 4 courses.
- » Responsible to evaluate and grade academic work in physics.
- » Promoted academic success by giving constructive feedback.

2008 - 2020 12 years

MUSICIAN (Violin, Piano)

Self-employed

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

EDUCATION

2016 -

Dr. rer. nat., PHYSICS

Humboldt Universität, Berlin (thesis defence expected Fall 2020)

2014 - 2015

M.Sc., PHYSICS

McGill University, Montreal

2010 - 2013

B.Sc., major PHYSICS, minor PHILOSOPHY

McGill University, Montreal

▶ ACTIVITIES

- » Elected spokesperson of the graduate students at PDI (2017-2019)
- » Volunteer for the Falling Walls Foundation during the Berlin Science Week (2019)
- » Selected for the Young Entrepreneurs in Science Workshop in Leipzig (2019)
- » Slam artist at the 25th anniversary of the Forschungsverbund Berlin (2017)
- » Organizing member of the Physics Games at McGill University (2015)
- » Elected high-school student representative/student body president (2001-2010)



CONTACT DETAILS

Email

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Mobile

LinkedIn

linkedin.com/in/samuelgaucher

Website

https://gaucher.io

▶ PROFESSIONAL SKILLS

Python

Mathematica

MATLAB

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Machine Learning

R&D

Data Engineering

Written Communication

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Oral Communication

Leadership

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Entrepreneurship

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EXPERTISE

Data Analytics

Quantum Information

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Nanotechnologies

Mathematics

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▶ LANGUAGES

French

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English

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German

Italian

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