NATHAN BERNIER

Physicist and aspiring Data Scientist

EXPERIENCE

Postdoctoral Researcher
EPFL (Swiss Federal Institute of Technology Lausanne)

6 months

- Coordination of the research effort within a small team
- Mentoring of the junior researchers
- Module to fit models to data by Bayesian inference

2019

Research Assistant
EPFL (Swiss Federal Institute of Technology Lausanne)

4.5 years

Cryogenic microwave circuits (Quantum technologies)

- Experimental results leading to 7 scientific publications including one as first author in Nature Physics
- Development of an original theoretical model confirmed by experiment
- Sole teaching assistant for a course on Quantum Optics; substitute for the lecturer on advanced statistics

2014

Teaching Assistant
Boston University

2 semesters

- Several laboratory classes for General Physics
- Laboratory setup for a new course on Food Science

2013

EDUCATION

2019

PhD in Physics
EPFL (Swiss Federal Institute of Technology Lausanne)

Relevant coursework:
Applied machine learning for scientists (sklearn, keras),
Statistics for physicists (Bayesian inference, with R)

2013

MSc & BSc in Physics
EPFL (Swiss Federal Institute of Technology Lausanne)

- Master project at **Harvard University**, leading to article
- EPFL Excellence Fellowship in 2011 and 2012
- Best average in graduating BSc class (71 students)
- Exchange year at **Carnegie Mellon University**
- Student assistant for Analytical Mechanics and Introduction to Computer Science (C++)

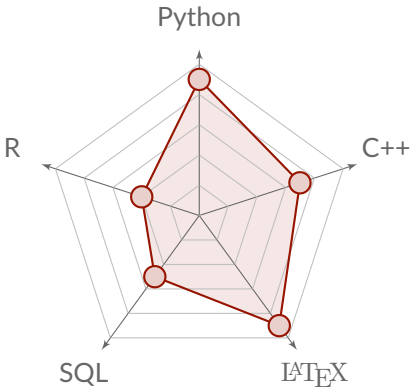
SUMMARY

Physicist looking to employ his insights about complex systems to assist businesses in unlocking the full potential of their data.

STRENGTHS

Analysis | Enthusiasm | Pedagogy | Fast learning | Collaboration

PROGRAMMING



Data analysis & visualization in Python:

Numpy | Scipy | Pandas | Plotly | Matplotlib | Jupyter

LANGUAGES

French
English
German

ACTIVITIES

Swing dance
Soldering audio components
Tailoring clothes

CONTACT

nathan.bernier@alumni.epfl.ch
Lausanne, Switzerland
1990 Swiss, married