NATHAN BERNIER

Physicist and aspiring Data Scientist

EXPERIENCE

Data Science Projects in Freelance Personal Website: nrbernier.github.io

- Interactive map of Swiss breweries from web scraping
- Predicting wine-review scores with machine learning

2020

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 model data by Bayesian inference

2019

Research Assistant

EPFL (Swiss Federal Institute of Technology Lausanne)

4.5 years

Design and signal processing of superconducting microwave circuits (Quantum technologies)

- Responsible for data analysis and visualization in Python
- 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 •

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++)

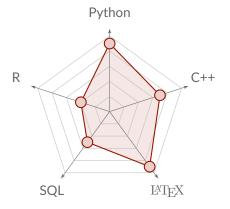
SUMMARY

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



Python expertise:

Pandas Plotly Matplotlib Numpy Jupyter Sklearn Keras (TensorFlow)

LANGUAGES

French **English** German



ACTIVITIES

Photography Swing dance Soldering audio components Sewing clothes

CONTACT

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Lausanne, Switzerland

1990 Swiss, married