

Simon Zabrocki

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Education

Technische Universität München

Munich, Germany

MSC IN MATHEMATICS FOR DATA SCIENCE

2019–2020

- Received a 15k€ excellence scholarship from the DAAD to pursue the master.

École Polytechnique

Paris, France

MSC IN APPLIED MATHEMATICS AND BACHELOR IN ENGINEERING

2016–2019

- Ranked 45 out of 1273 candidates in the competitive entrance exam.

Lycée Kléber PC*

Strasbourg, France

CLASSE PRÉPARATOIRE

2014–2016

- Two years intensive undergraduate course in Physics and Mathematics.

Work experience

Global Green Growth Institute

Seoul, South Korea

ANALYST, DATA SCIENTIST

July 2020 - Present

- Designed dashboard allowing policy makers from 39 member states exploring the Green Growth Index and data.
- Developed an online policy simulation modeling dozens of variables using statistical and economics models.
- Supervised and trained 7 team members in modeling and coding best practices.
- Took the initiative to decrease time spent on data collection and processing from weeks to minutes through automation.

HawaDawa (Air quality management)

Munich, Germany

DATA SCIENTIST (PART TIME)

February 2020 - July 2020

- Implemented, deployed and maintained forecasters to predict pollution levels up to 2 weeks ahead in 3 European cities.

Sanofi, Biologics Development R&D

Boston, USA

DATA SCIENTIST

April 2019 - August 2019

- Researched hybrid System Dynamics/Machine Learning models on small data sets to support cell culture development.
- Produced interactive data visualizations for automated exploratory data analysis.

Manatal (Applicant tracking system)

Bangkok, Thailand

PYTHON DEVELOPER

June 2018-August 2018

- Segmented professional profiles of 10k applicants using unsupervised machine learning.
- Built and maintained web scrapers to collect data from 8 major social media platforms.

Bac Ninh high school for gifted students

Bac Ninh, Vietnam

TEACHER

October 2016-April 2017

- Taught physics, mathematics and English to province's top students.

Skills

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|-----------------------|--|
| Python & R | Pandas, Numpy, Scikit-Learn, Pytorch, Tensorflow, XGBoost, Dash, Matplotlib, dplyr |
| Data Science | Machine learning, Statistics, Data wrangling, Data visualization |
| IT skills | Git, SQL, bash, Slurm, Docker, LaTeX, Office |
| Soft skills | Public speaking, Writing, Strong communication skills |
| Languages | French (native), English (fluent), German (basic) |

Projects

Master thesis: Machine learning for genetic risk prediction

TUM/HELMHOLTZ ZENTRUM

- Developed an original approach to assess genetic risks using deep variational models as part of my research project.
- Implemented a pipeline to process large genomic data sets including millions of variables and 500k samples.