



Fabio J. Fehr

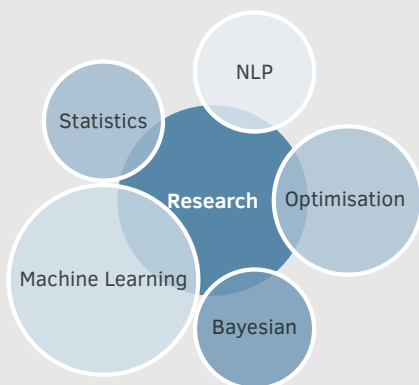
Research assistant at Idiap,
Ph.D. student at EPFL

- May 23, 1996,
Swiss + South African
- fabio.fehr@idiap.com
- Github Profile
- LinkedIn Profile

About me

I am an individual who is enthusiastic, reliable and tenacious. I take a statistical approach to life. Given a 1% chance of success, I am prepared to try at least 100 times. My research interests are in machine learning, statistics and natural language processing. I thrive on regular exercise and enjoy outdoor activities such as hiking, skiing and surfing. My hobbies include: reading, playing classical music and growing bonsai.

Interests



Languages

- English
- Afrikaans
- French
- German

Working

- 2021-2024 **Research Assistant** Idiap
Working in the Natural Language Understanding group at Idiap.
- 2018 **Intern Machine Learning Engineer** DataProphet
Implementing transfer learning for RNN and CNN models for financial time-series data.
- 2017 - 2018 **Intern Data Scientist** Eighty20
I worked on a team project for the water crisis in Cape Town. Thereafter, working with Eighty20's Big Data Portal in SQL.

Education

- 2021 - 2024 **Doctor of Philosophy in Electrical Engineering** EPFL
Working in the intersection of machine learning and natural language processing, with an emphasis on representation learning for the meaning of language, attention-based deep learning models, and structured prediction.
PhD Research EPFL
Currently working on combining Bayesian non-parametrics methods with attention-based deep learning language models.
- 2019 - 2020 **Masters in Advanced Analytics (Full bursary)** UCT
Statistics specialisation. A two year masters degree including coursework and dissertation. Awarded SASA-NRF grant funding.
Master Thesis UCT
A comprehensive comparison study of Gaussian processes and variational autoencoders for statistical shape modelling of 3D meshes.
- 2015 - 2018 **Bachelors of Business Science in Analytics** UCT
A diverse degree with a focus on Statistics, Mathematics and Computer Science. Honours year specialisation in statistics.
Honours Thesis (Distinction) UCT
Text Content Classification on News Articles: Using natural language processing and machine learning techniques to classify text articles. This was presented at the South African Statistical Association (SASA) conference in 2019.

Teaching

- 2021-2024 **Teaching Assistant** EPFL
Working as a TA for machine learning and NLP courses at EPFL.
- 2020-2021 **Engagement Tutor** GetSmarter
Tutor for in Business Analytics (UCT) and Machine Learning (LSE).
- 2019 - 2020 **Subject Matter Expert** GetSmarter
Building two online courses: Business Analytics (UCT) and Machine Learning (LSE).
- 2017 - 2020 **Head Tutor: Statistics** UCT
Managing, coordination, tutoring and assistant lecturing.

Community

- 2013 - 2019 **Lifesaving Squad Leader** LSLC
Llandudno Surf Lifesaving Club, leading a squad of 25 young lifeguards. 100 hours p.a community service.
- 2016 - 2019 **Surf Club Chairman** UCT
Management of a team, organisation of events, working with brands. Community outreach and adaptive surfing. 25 hours p.a community service. Club of the year and transformation trophy for 2019.

References

- Dr James Henderson** Idiap
Ph.D. supervisor - james.henderson@idiap.ch
- Associate Professor Francesca Little** UCT
Head of statistics department - francesca.little@uct.ac.za
- Dr Sheetal Silal** UCT
Lecturer and mentor - sheetal.silal@uct.ac.za
- Associate Professor Tinashe Mutsvangwa** UCT
MSc. supervisor - tinashe.mutsvangwa@uct.ac.za