

Summary

PhD in Science and Master of Science from ETH Zurich

8 years of experience analyzing large data sets

5 years of experience using R

Experienced presenting results in international journals and at international conferences

LinkedIn resume: <https://ca.linkedin.com/in/muellerbrigitte>

Key strengths

- Data analysis and visualization, R, Statistics, Machine learning
- Curiosity, passion, determination, flexibility

Work experience

11.2015 – 04.2016

Fanalytics, Toronto

Start-up in Sports Analytics with the goal of increasing ticket sales for the Canadian football league through AI-ticketing

I am the data scientist in Fanalytics. I clustered sport fans based on their traits into 10 groups in order to recommend seats. I also designed, distributed and analyzed a survey on sport fan preferences and analyzed twitter sentiments to support my analyses.

- Data-driven motivation and visualization for investment-pitch
- First prize at Canada-wide Sports-Hackathon, 2015

02.2013 – 03.2016

Climate Data and Analysis Section, Environment Canada, Toronto

NSERC Researcher at the Government of Canada

I collected large, highly dimensional climate data and performed statistical analyses. I demonstrated creativity, dedication and willingness to work hard by completing several research studies successfully, and leadership skills when leading a team of PhDs through a scientific project.

- Successfully presented results at international conferences and universities
- Published articles in peer-reviewed journals that gained a lot of attention with two of them being in the 98 and 99 percentiles of all journal articles based on online attention such as newspaper coverage

01.2013 – 03.2013

Masdar Institute of Science and Technology, Abu Dhabi, UAE

Visiting scientist

- Statistical analysis to determine causalities in the climate system

02.2012 – 12.2012

Institute for Atmospheric and Climate Science, ETH Zurich, Switzerland

Postdoctoral researcher

- Successful proposal writing for European Space Agency and Natural Sciences and Engineering Research Council of Canada (~170K awarded for 2013-2016)
- Data analysis for European Space Agency sponsored projects
- Survey design, analysis and report writing for user data requirements

04.2008 – 01.2012

Institute for Atmospheric and Climate Science, ETH Zurich, Switzerland

Research assistant

- Conducting research for PhD project
- Collection and management of datasets
- Creation of benchmark data for evaporation
- Publications in scientific journals including top-journals Nature and PNAS
- Supervision of Bachelor and Master thesis, teaching assistant

07.2006 – 09.2007

Kungshon Language School, Lhasa, China

Teacher

- Teaching English to children and French to adults

03.2006 – 06.2006

German Chamber of Commerce, Shanghai, China

Intern in Publication Department

- Responsible for content of the book 'Business Focus China: Energy'
- Article acquisition for monthly magazine

Education

2015-present

Stanford University, online

Online courses in data science with certificates (SQL, Relational Algebra, Statistical learning, Statistics in the Medicine)

2008-2012

ETH Zurich, Switzerland

PhD at the Institute for Atmospheric and Climate Science

2000-2005

ETH Zurich, Switzerland

Master of Science in Environmental Sciences

Recent award

IBM Big Data University prize for the most innovative use of data and first national prize in Sportshack 2015

Recent data analysis projects

Predictive modeling of flight delays (classification), twitter sentiment analysis for sport fans, data mining through APIs (Code on [Github](#))

Interactive visualization (online apps [text analysis](#), [impact of greenhouse gases on temperature](#))

Articles on data and climate science ([The Data Journalist](#))