



SEREINA GRABER



PROFESSIONAL EXPERIENCE

Data Scientist | 90% | August 2019 – current

Department of Health Sciences, Helsana Insurance Group, Zurich

- Maintenance/ development of data infrastructure (SQL, Lua) & tools (R pkgs)
- Lead, design and implementation of data analyses, statistical/machine learning models & visualizations for internal projects and scientific studies
 - data extraction and processing (using SQL and R)
 - development and validation of statistical/ machine learning models (a.o.: GLM, GLMM, GEE, RF, survival analyses)
 - visualizations (mainly using **ggplot**, **plotly**, **shiny**)
- Present/discuss results to/with external/internal stakeholders and collaborate on publishing scientific publications
- Supervision of PhD student and mentoring team members

Data Scientist | 100% | August 2017 – July 2019

Advanced Analytics, Sanitas Insurance Group, Zürich

- Lead, design and implementation of analytical projects: Data mining & preparation, analyses & machine learning, preparation of results and discussion with internal/external stakeholders
 - Predictive models (RF and GLM) for forecasting termination probabilities
 - Development of a chatbot in the area of customer consulting using NLP and Machine Learning (in collaboration with external consultants)
 - Health services research: effectiveness of case management
 - Claim audit system: efficiency testing and further development of rules and regulations (including implementation of analysis tool in R **shiny**)
- In-house consulting and teaching of statistical and analytical skills

Biostatistician | diverse projects | March 2012 - July 2016

Institute of Anesthesiology, University Hospital Zürich

Pneumology and Sleep Medicine, Cantonal Hospital Aarau

- Design, implementation of and consulting on statistics and data analyses for clinical trials/ scientific publications



ACADEMIC CAREER & EDUCATION

PhD in Evolutionary Biology | August 2013 - July 2017

Anthropological Institute and Museum, University of Zurich

Thesis: Comparative analysis on social & ecological factors in brain size evolution

Master of Science in Biostatistics | September 2012 - May 2015

Epidemiology, Biostatistics and Prevention Institute, University of Zurich

Master of Science in Anthropology | September 2010 - May 2012

Anthropological Institute and Museum, University of Zurich

Bachelor of Science in Biology | September 2007 - May 2010

University of Zurich



CONTACT

sereina.graber@gmail.com

[LinkedIn](#)



LANGUAGES

German	●	●	●	●	●
English	●	●	●	●	●
French	●	●	●	●	●



TOOLS

R	●	●	●	●	●
R Shiny	●	●	●	●	●
Python	●	●	●	●	●
SQL	●	●	●	●	●
LaTeX	●	●	●	●	●
Git	●	●	●	●	●
Bash/Shell	●	●	●	●	●
SPSS	●	●	●	●	●
JMP	●	●	●	●	●
MS Office	●	●	●	●	●



PUBLICATIONS

[ResearchGate](#)

[ORCID](#)



INTERESTS

R programming, visualizing
cycling & hiking with my dog



REFERENCES

available upon request