



Sereina M. Graber

PhD · Data Scientist · Health Researcher

Zurich, Switzerland

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Proactive and creative data scientist with a strong interest in drug development and prescribing patterns, leveraging strong analytical, statistical and programming skills to drive innovative solutions and actionable insights.

Experience

Data Scientist & Researcher

Aug 2019 - current

Department of Health Sciences, Helsana Insurance Group, Zurich

- Lead, conceptualize and execute scientific studies and analytical projects, e.g.:
 - Antibiotic pack sizes vs. guidelines ([link to study](#))
 - Inappropriate drug prescribing and integrated care ([link to study](#))
- Development of automated processes to cleanse, aggregate and consolidate diverse "big data" sources (including SQL procedures and R software pkgs)
- Data analyses and statistical programming
 - 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)
- Interpret/ present/ discuss results to/ with external/ internal stakeholders and collaborate on publishing scientific publications
- Supervision of PhD student and mentoring team members

Data Scientist

Aug 2017 - Jul 2019

Advanced Analytics, Sanitas Insurance Group, Zurich

- Lead, design and implementation of analytical projects: Data mining & preparation, analyses & machine learning, preparation of results and discussion with internal/external stakeholders, project examples:
 - Predictive models (RF and GLM) for forecasting churn 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

Academic Career

Ph.D. in Evolutionary Biology

Aug 2013 - Jul 2017

Anthropological Institute and Museum, University of Zurich

Master of Science - Biostatistics

Sept 2012 - May 2015

Epidemiology, Biostatistics and Prevention Institute, University of Zurich

Master of Science - Biology

Sept 2010 - May 2012

Anthropological Institute and Museum, University of Zurich

Bachelor of Science - Biology

Sept 2007 - May 2010

University of Zurich

Extracurricular

Member of the organizing committee
[Zurich R User Group!](#)

Skills

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

Languages

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

Personal Interests

R programming, visualizing,
cycling & hiking with my dog

References

available upon request