Sereina M. **Graber**

PhD · Data Scientist · Researcher

Zurich, Switzerland

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ⓘD 0009-0005-2128-0827 R² ResearchGate 🇱 LinkedIn

Creative & proactive data scientist with a strong interest in drivers and outcomes of drug usage, leveraging strong analytical and programming skills to generate actionable insights & innovative solutions that enhance patients well-being.

Experience

Data Scientist & Researcher
90% | Aug 2019 - current

Department of Health Sciences, Helsana Ins. Group, Zurich

- Lead, conceptualize and execute scientific studies and analytical projects, e.g.:
  - ‣ Discrepancy between antibiotic pack sizes and guidelines (link to study)
  - ‣ How insurance models affect inappropriate drug prescribing (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
100% | Aug 2017 - Jul 2019

Advanced Analytics, Sanitas Ins. 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 for forecasting churn probabilities
  - ‣ Development of a chatbot in the area of customer consulting using NLP and Machine Learning (in collaboration with external consultants)
  - ‣ 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 | Mar 2012 - Jul 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

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

Skill	Level
R	●●●●●
R Shiny	●●●●○
Quarto	●●●●○
Python	●●●○○
SQL	●●●●●
LaTex	●●●●○
Git	●●●●○
Bash/ Shell	●●●○○
SPSS	●●●●○
JMP	●●●○○
MS Office	●●●●○

Languages

Language	Level
German	●●●●●
English	●●●●○
French	●●○○○

Personal Interests

Programming & visualizing for fun, hiking & cycling with my dog

References

available upon request