SEREINA M. GRABER

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serigra.github.io | GitHub | LinkedIn | ResearchGate | ORCID

💼 PROFESSIONAL EXPERIENCE

Data Scientist & Researcher | 90% | August 2019 – current
Department of Health Sciences, Helsana Insurance Group, Zurich

- Lead, conceptualize and execute scientific studies and analytical projects
- 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
- Maintenance/ development of data infrastructure (SQL, Lua) & tools (`R` pkgs)
- 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

🛠 TOOLS

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

🌎 LANGUAGES

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

❤ INTERESTS

R programming, visualizing cycling & hiking with my dog

👥 REFERENCES

available upon request