



# SEREINA GRABER



## 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



## CONTACT

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[LinkedIn](#)

Personal Webpage:

[https://serigra.github.io/Webpage\\_Quarto/](https://serigra.github.io/Webpage_Quarto/)



## 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