



Lukas Graz

STATISTICAL CONSULTANT

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Work Experience

PhD Candidate

Switzerland

UNIVERSITY OF ZURICH

May 2025 — planned 2028

- research Transformation Models under the supervision of Prof. Dr. Hothorn
- Teaching Assistant: STA402 Likelihood and Regression I & II

Statistical Consultant

Switzerland

ETH ZURICH

November 2022 — January 2025

- Consulted over 200 researchers on statistics and data science
- Tutor for the 'Diploma of Advanced Studies in Statistics'
- Scientific Managing Director of the 'Zurich R Courses'
- Lecturer for the 'Zurich R Courses'
- Investigating statistical methods. C.f. lgraz.com for some examples
- Research collaborations including:
 - 1) Modelling restorative effects using personal and geographic attributes (WSL)
 - 2) Analyzing mixed cropping systems (Agroscope)

Teaching Assistant

Switzerland

ETH ZURICH

September 2020 — December 2020

- Teaching 'Analysis I' to math students

Education

MSc Statistics

Switzerland

ETH ZURICH

2021 — 2022

- Semester project: Beta Regression - Comparing efficiency, consistency and generalizability to GLM framework
- Thesis: "Interpolation and Correction of Multispectral Satellite Image Time Series". Developed correction method for satellite image time series, available as R-package available on GitHub

BSc Mathematics

Switzerland

ETH ZURICH

2017 — 2021

- Exchange Semester at the National University of Singapore
- Thesis: "Improvement of the Algorithms for the Medcouple and the Adjusted Outlyingness". Analysing issues of those two mathematically robust estimators resulting in improving the R-implementations numerically and defining (+reducing) the space where the Adjusted Outlyingness breaks down.

Skills

PROGRAMMING AND IT

- R: My daily driver. Next to base-R, I use the packages: 'lmerTest' (+'lme4'), 'glmmTMB', 'georob', 'brms', 'mgcv', 'simr' and 'lavaan'
- Python: Used for my Master Thesis
- Linux and Bash: My daily driver since 2021
- C++: Taught me the basics of programming in 2017
- Matlab: used for the lectures 'Numerical Analysis I and II'
- LaTeX, (R)Markdown and Quarto: used for all my documents/presentations/websites
- Git: used for cross-device syncing, version control, publishing and collaboration
- Docker: used to deploy 'paperless-ngx' locally

LANGUAGES

- C2 - German
- C1 - English
- C1 - Polish
- A2 - French

Extracurricular Activities

References

Prof. Dr. Torsten Hothorn

PROFESSOR, BIOSTATISTICS, MODELS AND COMPUTING, UZH

- Current supervisor
- Phone: +41 44 634 60 00
- E-mail: torsten.hothorn@uzh.ch

Dr. Lukas Meier

SENIOR SCIENTIST, SEMINAR FOR STATISTICS, ETH ZURICH

- Past supervisor
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Dr. Markus Kalisch

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- Past supervisor
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Dr. Gregor Perich

CEO & CO-FOUNDER AT TERENSIUS | PIONEER FELLOW ETH ZURICH

- Master's thesis supervisor
- Phone: +41 79 487 39 44
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Prof. em. Dr. Martin Mächler

PROFESSOR EMERITUS, SEMINAR FOR STATISTICS, ETH ZURICH

- Bachelor thesis supervisor and former colleague
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