

Sina Rüeger

Data Analyst

Education

— PhD in Life Sciences in 2018

Supervision by Prof. Zoltán Kutalik, [Statistical Genetics Group](#) at the Lausanne University Hospital.

Thesis: *Integrative statistical analysis of -omics and genome-wide association studies data.*

- Improvement of summary statistics imputation for application in more realistic scenarios and helping in building an easy to use software.
- Identification of genetic risk factors in different disease areas using GWAS methodology.
- Validation of gene expression-trait associations by applying text processing to a drugbank database, extracting drug target information and matching the results with gene expression-trait associations.

— Master of Science in Engineering in 2011

Zurich University of Applied Sciences, Winterthur, average mark: 86%.

Development of a statistical model to predict stages of Parkinson's disease from brain perfusion data, leading to a better understanding of disease progression. [New Zealand Brain Institute](#), Christchurch, NZ.

— Engineering degree in Data Analysis & Process Design in 2008

Zurich University of Applied Sciences, Winterthur, average mark: 82%.

Experience

— Fellay Lab, EPFL

Postdoc: since Sept 2018

Analysis of human genomic data in the context of infectious diseases.

— Division of Biostatistics, University of Zurich

Biostatistician: Feb 2012 - Mar 2013

- Provided statistical consulting for medical staff and students.
- Analysed medical data for over eight research groups.

— Institute of Data Analysis & Process Design, ZHAW

Research Assistant: Mar 2009 - Jan 2012

- Provided statistical data analysis for various in-house projects.
- Built an application to automate cluster analysis on consumer testing data.
- Predicted vehicle type using sensor data and random forests.

Publications

[See full list here](#)

- Sina Rüeger et al. (2015) *Impact of common risk factors of fibrosis progression in chronic hepatitis C.* [Gut](#).
- Sina Rüeger et al. (2017) *Improved imputation of summary statistics for realistic settings.* [BioRxiv](#).
- Sina Rüeger et al. (2018) *Evaluation and application of summary statistic imputation to discover new height-associated loci.* [PLOS Genetics](#).

Contact

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📍 Vaud, Switzerland

🐙 [sinarueeger](#)

🌐 [sinarueeger](#)

Skills

Statistical data analysis

Visualising data

R programming

Used daily
since 10 years

Git

\cventry(Sep-2018 --

Knitr/RMarkdown

Genomics tools

High performance computing

Presentation & Communication

Adobe Illustrator

German native speaker

English fluent

French good command

Awards & Activities

Awards for best student presentation at conferences (ESHG, EMGM, ePerMed).

Founding member and co-organiser of [R-Ladies Lausanne](#).