

RACHEL HEYARD, PHD

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*Strong interest in Applied Statistics - Research Background in Biostatistics and 'Research on Research'
Independent, Team Spirit, Caring, Organized, Multilingual*

WORK EXPERIENCE

Postdoctoral Fellow at the Center for Reproducible Science **Since Oct 2021**

Contribute to teaching Good Research Practice courses; Diverse meta-research projects

Statistician in the Data Team of the Swiss National Science Foundation **Since Feb 2019**

Lead and co-lead research on research studies; Establish a fully reproducible and automated environment for strong monitoring reports; R-courses and helped with building the SNSF R infrastructure; Contribute to diverse discussions: from regular presentations on gender issues in peer review to recommendations to strengthen reproducible research in Switzerland and beyond.

PhD student in Epidemiology and Biostatistics at the University of Zurich **Sept 2015 - Jan 2019**

Objective Bayesian variable selection for clinical prediction models; R package (available from R-CRAN); Supervised Master students, helped as teaching assistant in the Biostatistics Master program as well as the Zurich-Ulm Biostatistics summer school.

PROFESSIONAL ENGAGEMENT

Board Member of the Swiss Statistical Society (SSS) **Since July 2020**

- Organized and co-moderated an online panel, SSS representative in the scientific committee of the IBS-ROeS conference.
- Regular meetings and discussions on topics related to statistics in Switzerland (data literacy, handling of the pandemic, exchange with the Swiss statistics community, etc).

Member of the global organizing committee of useR! 2021 conference

- Responsible for the schedule of the international conference.
- Contribute to program and content topics (keynotes, abstract submission, innovative formats).

Co-organizer of the Zurich R User Group **Since October 2018**

- Organize frequent meetups with presentations on R-related topics to tighten the R community in Zurich and Switzerland.

SCIENTIFIC CONTRIBUTION

Research on Research

R. Heyard, T. Philipp, H. Hottenrott (2021). Imaginary carrot or effective fertiliser? A rejoinder on funding and productivity. *Scientometrics*.

R. Heyard, M. Ott, G. Salanti, M. Egger (2021). Rethinking the Funding Line at the Swiss National Science Foundation: Bayesian Ranking and Lottery. Available as preprint, currently being revised.

R. Heyard and H. Hottenrott (2021). The value of research funding for knowledge creation and dissemination: A study of SNSF Research Grants. *Humanities and Social Sciences Communications*.

M. Bieri, K. Roser, R. Heyard, M. Egger (2020). Face-to-face panel meetings versus remote evaluation of fellowship applications: simulation study at the Swiss National Science Foundation. *BMJ Open*.

A. Severin, J. Martins, R. Heyard et al. (2020). Gender and other potential biases in peer review: cross-sectional analysis of 38'250 external peer review reports. *BMJ Open*.

Biostatistics

R. Heyard et al. (2019). Validation of discrete time-to-event prediction models in the presence of competing risks. *Biometrical Journal*.

R. Heyard et al. (2018). Dynamic clinical prediction models for discrete time-to-event data with competing risks - a case study on the OUTCOMEREA database. *Biometrical Journal*.

R. Heyard and L. Held (2018). The quantile probability model. *Journal of Computational Statistics and Data Analysis*.

K. Jensen, R. Heyard et al. (2017). Which pre-hospital triage parameters indicate a need for immediate evaluation and treatment of severely injured patients in the resuscitation area?. *European Journal of Trauma and Emergency Surgery*.

EDUCATION

University of Zurich **Sept. 2015 - Jan. 2019**
Ph.D. in Epidemiology and Biostatistics
Department of Biostatistics at the Epidemiology, Biostatistics and Prevention Institute (EBPI)

University of Strasbourg, Faculty of Mathematics and Computing **2013-2015**
Master in Biostatistics and Industrial Statistics

University of Strasbourg, Faculty of Economics and Management **2010-2013**
Bachelor in Mathematics and Economics

SKILLS

Computer Skills	R, LaTeX, SQL, git, MS Office	
Languages	Luxemburgish	(native speaker)
	French, German and English	(fluent C1/C2)
	Spanish	(basics A2)
Professional Training	Presentation skills, Leadership skills	

PASSIONS OUTSIDE OF SCIENCE AND WORK

Member and cycling instructor in the [Triathlon Club Zurich](#).
Open-water swimmer (training for marathon swimming)
Coffee lover, book nerd, independent movies, *Energiebündel*