

Swiss Reproducibility Network (SwissRN)

Treffen der an Statistik interessierten
Personen an der ZHAW 2022

Christoph Hofer, Coordinator of Statistical Consulting ZHAW, Institute for Data Analysis and Process Design (IPD)
Vanessa Klaas, ZHAW Services Forschungsdaten

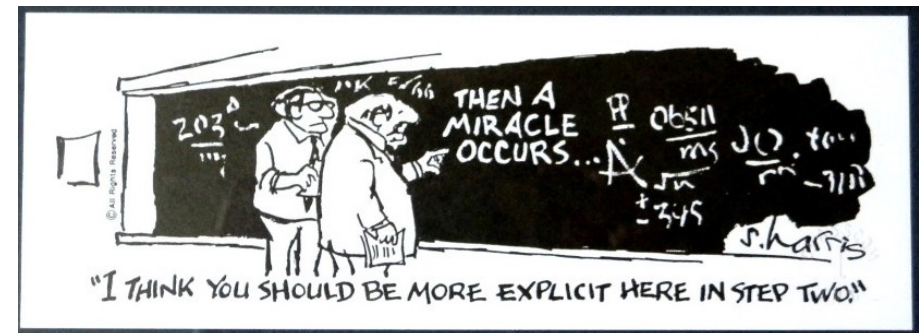
Mail: researchdata@zhaw.ch

Self-Service-Portal: [→ Arbeiten & Studieren → Forschungsdatenmanagement](#)

Reproducibility – Why, where and when at ZHAW?

Why

- It is evidence of correctness
- It ensures transparency
- The higher complexity of data analyses¹
- ...



By Sidney Harris

Where and when

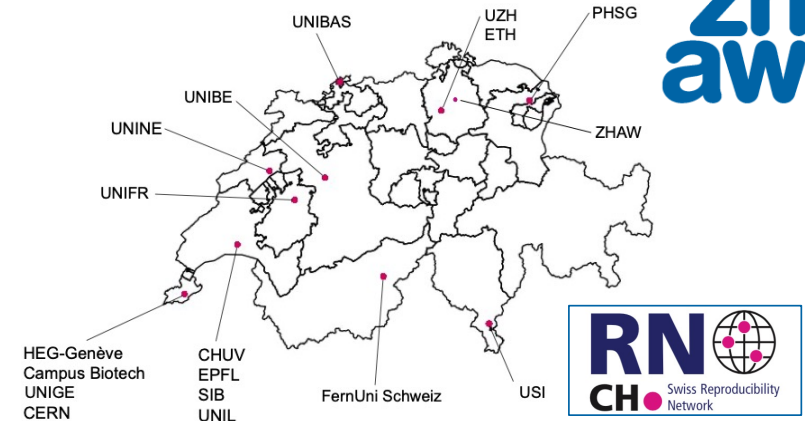
- Not only important for publishing
- Also important when handing over results to your industry partner
- In principle during the whole project life cycle – to make your own life easier

¹ Botvinik-Nezer, R., Holzmeister, F., Camerer, C.F. *et al.* Variability in the analysis of a single neuroimaging dataset by many teams. *Nature* **582**, 84–88 (2020). <https://doi.org/10.1038/s41586-020-2314-9>

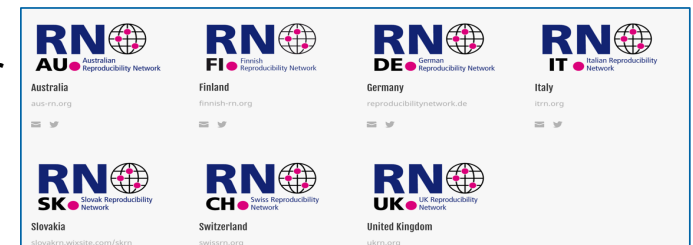
The Purpose of SwissRN

Peer-led consortium that aims to *promote* and *ensure* **rigorous research practices** and **robustness of research results** in Switzerland by

- Establishing appropriate training activities
- Designing and evaluating of measures to improve research efforts
- Disseminating best practice and
- Working with stakeholders to coordinate efforts across the sector



SwissRN is part of a growing number of international partner reproducibility networks .



Engagement of ZHAW

Local Node:



















Local (self-organized) initiative of researchers and staff within Swiss research institutions

- Promote the aims of the SwissRN
- Provide the point of contact for SwissRN
- Open to academic and research staff at all levels

Institutional Members

Expected Benefit:

- Exchange knowledge and experience with other local nodes
- Increase reproducibility of our research

Institution	Unit	Contact	
CERN	Information Technology	Tibor Simko	
École polytechnique fédérale de Lausanne (EPFL)	Neuroscience - Brain Mind Institute	Michael Herzog	
EPFL/Unige Campus Biotech	Fondation Campus Biotech	Michael Dayan	
ETH	NEXUS Personalized Health Technologies	Daniel Stekhoven	
FernUni Schweiz	Psychology / Applied Mathematics	Nicolas Rothen / Matthias Voigt	
Lausanne University Hospital (CHUV)	Precision Medicine Unit	Romain-Daniel Gosselin	
Haute école de gestion de Genève (HEG-Genève)	Data Mining and Machine Learning group	Grigoris Anagnostopoulos	
St.Gallen University of Teacher Education	Research Methods Working Group	Michael Beck	
Swiss Institute of Bioinformatics (SIB)	Bioinformatics	Patricia Palagi	
University of Basel (Unibas)	Department of Environmental Sciences	Valentin Amrhein	
University of Bern (Unibe)	Institut für Marketing und Unternehmensführung (IMU)	Michael Schulte-Mecklenbeck	
University of Fribourg (Unifr)	Department of Psychology	Meike Ramon	
University of Geneva (Unige)	Swiss Center for affective Sciences/ Faculty of Psychology and Educational Sciences	Florian Cova/ Evie Vergauwe	
University of Lausanne (Unil)	Persuasive Technology Lab	Mauro Cherubini	
Université de Neuchâtel (Unine)	Institut de Psychologie du Travail et des Organisations	Laurenz Meier	
Università della Svizzera Italiana (USI)	Data Science Lab	Antonietta Mira	
University of Zurich (UZH)	Center for Reproducible Science	Leonhard Held	
Zurich University of Applied Sciences (ZHAW)	Institute of Data Analysis and Process Design (IDP) / ZHAW Services Research Data	Christoph Hofer/ Vanessa Klias	

Our role

- Local node **coordinators** at the ZHAW
- **Main tasks:**
 - Identifying needs of scientific staff (activities depend on research context)
 - Build and promote a group to facilitate reproducible research at ZHAW
 - Initiatives within the ZHAW to promote reproducibility
 - Network in the network: exchange and share knowledge/experience with other local nodes
- **Established activities:**
 - R-Training «Einführung in R»
 - Coffee lectures and Open Science Café (<https://zhaw.sharepoint.com/sites/osc>)
 - Github.zhaw.ch

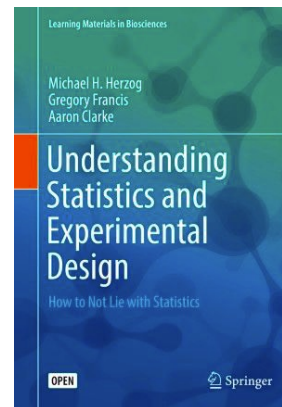
SwissRN Initiatives

...organised in working groups

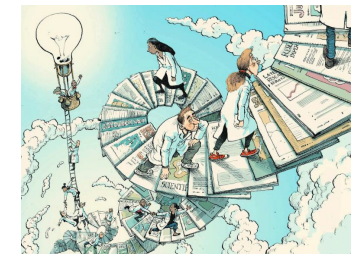
- Preregistration and Registered Reports
- Research Assessment and Incentives
- Replication Studies
- Research Methodology
- Training
- ReproducibiliTea



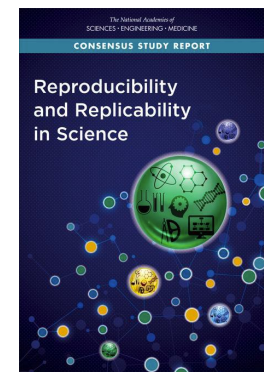
[What's next for Registered Reports?](#)



<https://www.springer.com/gp/book/9783030034986>



Health tips for
research groups
[Among others, U. Dirnagl, Nature 2018](#)



<https://reproducibilitea.org/>

What are your needs?
Would you like to join our group?