

Samuel Pawel

Biostatistician | Statistical Software Developer | Meta-Researcher
Epidemiology, Biostatistics and Prevention Institute, University of Zurich

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I develop statistical methods for designing studies and for assessing the evidence they provide, with a focus on statistical measures of evidence (Bayesian and frequentist), study design, and the methodology of simulation studies. A common theme is how evidence from a new study combines with what is already known: in replication studies, in meta-analysis, and in clinical trials that borrow external data. I maintain several R packages on CRAN that implement these methods. I teach statistical practice and reproducible workflows in the Master Program in Biostatistics, and in workshops run through the Center for Reproducible Science and Research Synthesis and through the Swiss Reproducibility Network.

Positions

University of Zurich; Department of Biostatistics <i>Research Associate (Wissenschaftlicher Mitarbeiter; permanent contract)</i>	Zurich, CH 05/2025 – present
University of Zurich; Department of Biostatistics <i>Oberassistent</i>	Zurich, CH 10/2024 – 04/2025
University of Zurich; Department of Biostatistics <i>Postdoctoral Researcher</i>	Zurich, CH 04/2023 – 09/2024
University of Amsterdam; Department of Psychological Methods <i>Visiting PhD Student</i>	Amsterdam, NL 02/2022 – 08/2022
University of Zurich; Center for Reproducible Science <i>Research Fellow</i>	Zurich, CH 01/2021 – present
University of Zurich; Department of Biostatistics <i>PhD Student</i>	Zurich, CH 10/2019 – 03/2023
Earlier positions <i>Student assistant, University of Zurich (2016–2018); night watch, Stiftung Forelhaus (2016–2018); civilian service, Psychiatric Clinic Wil (2013–2014)</i>	Zurich / Wil, CH

Education

University of Zurich <i>PhD in Epidemiology and Biostatistics</i> <i>Supervisor: Prof. Dr. Leonhard Held</i> <i>Thesis: Reverse-Bayes Methods for Replication Studies</i>	Zurich, CH 10/2019 – 03/2023
University of Zurich <i>Master of Science in Biostatistics; Grade: 5.9/6.0</i> <i>Thesis: Predictive evaluation of replication studies</i>	Zurich, CH 08/2017 – 08/2019
University of Zurich <i>Bachelor of Science in Psychology; Grade: 5.7/6.0; Minor: Biology</i> <i>Thesis: Questionable research practices in psychological research and recommendations to overcome the current replicability crisis</i>	Zurich, CH 08/2014 – 01/2018

Articles and Preprints

A star superscript (*) denotes equal contribution

46. **Pawel, S.**, Held, L. (2026). Stabilizing Thompson Sampling with Null Hypothesis Bayesian Response-Adaptive Randomization. *Biometrics* (to appear). Preprint:10.48550/arXiv.2510.01734. Code:<https://github.com/SamCH93/brar>
45. Ensle, F., Derron, N., Huang, C. J., **Pawel, S.**, Lupi, N., Özgür Koska, I., Porta-Vilaró, M., Gerber, P., Guggenberger, R. (2026). Single-slice quantitative MRI of the thigh for differential assessment of fasting-related body composition changes. *Clinical Radiology*. 107461. Article:10.1016/j.crad.2026.107461.
44. **Pawel, S.**, Fontana, S., Chen, J., Stoltefuß, L., Weber, F., Skipka, G., Sturtz, S., Bender, R., Held, L. (2026). Edgington's Combination Method for Two-Study Meta-Analysis: An Empirical Evaluation in 1226 Meta-Analyses. Preprint:10.48550/arXiv.2607.25819. Code:<https://gitlab.uzh.ch/crsuzh/edgington-iqwig>
43. Aust, F., **Pawel, S.**, Wagenmakers, E.-J. (2026). Extracting Bayesian Evidence from Frequentist p -Values. Preprint:10.48550/arXiv.2607.12132. Code:<https://github.com/crsh/jabp>
42. Kondzic, D., **Pawel, S.**, Hoffmann, J., Twardawski, M., Held, L., Sengewald, M.-A., Pohl, S. (2026). Assessing Replication Success: A Taxonomy and Systematic Comparison of Replication Success Measures for Prospective Replications. *Royal Society Open Science*. Article:10.1098/rsos.252263. Code:<https://doi.org/10.17605/OSF.IO/KWVCX>
41. Aczel, B., Szaszi, B., Clelland, H. T., Kovacs, M., Holzmeister, F., van Ravenzwaaij, D., Schulz-Kümpel, H., Hoffmann, S., Nilsonne, G., Kosa, L., Torma, Z. A., Abdelfatah, Y., Aberson, C. L., Acar, O. A., Acem, E., Adamkovic, M., Adamovich, T., Adiasto, K., Ahnström, L., ..., **Pawel, S.**, ..., Nosek, B. A. (2026). Investigating the analytical robustness of the social and behavioural sciences. *Nature*, 652(8108), 135–142. Article:10.1038/s41586-025-09844-9
40. Siepe, B.S., Bartoš, F., Boulesteix, A.-L., Heck, D.W., Peikert, A., Sarafoglou, A., **Pawel, S.** (2026). Why, when, and how to (or not to) preregister a simulation study. Preprint:10.31234/osf.io/cxjrb_v1
39. **Pawel, S.**, Held, L. (2026). Bayes Factor Group Sequential Designs. Preprint:10.48550/arXiv.2601.02851. Code:<https://github.com/SamCH93/bfgsd>
38. Macrì Demartino, R., Egidi, L., Held, L., **Pawel, S.** (2026). Mixture priors for replication studies. *Statistical Science* (to appear). Preprint:10.48550/arxiv.2406.19152. Code:<https://github.com/RoMaD-96/MixRep>
37. Kelter, R., **Pawel, S.** (2025). The Bayesian optimal two-stage design for clinical phase II trials based on Bayes factors. Preprint:10.48550/arXiv.2511.23144. Code:https://osf.io/3dbtv/overview?view_only=9f9d87a6748c446ead76de99c1e830b7
36. Degen, P., **Pawel, S.**, Held, L. (2025). Bayesian conjugate analysis for federated statistical inference. Preprint:10.5281/zenodo.17909964. Code:<https://gitlab.uzh.ch/crsuzh/confer>
35. Held, L., Balabdaoui, F., Fontana, S., **Pawel, S.** (2025). Balancing Evidentiary Value and Sample Size of Adaptive Designs with Application to Animal Experiments. Preprint:10.48550/arXiv.2511.17292. Code:10.5281/zenodo.17671982
34. Bartoš, F., Hoozevee, S., Sarafoglou, A., **Pawel, S.** (2025). Single-Dataset Meta-Analysis For Many-Analysts And Multiverse Studies. Preprint:10.48550/arXiv.2511.17064. Code:<https://osf.io/erxf2>
33. Pfadt, J., ... **Pawel, S.**, ... Wagenmakers, E.-J. (2025). A Methodological Metamorphosis: The Rapid Rise of Bayesian Inference and Open Science Practices in Psychology. Preprint:10.31234/osf.io/ck3js_v1 . Code:<https://osf.io/r7u23/>
32. Bartoš, F., **Pawel, S.**, Siepe, B.S. (2025). Living synthetic benchmarks: A neutral and cumulative framework for simulation studies. Preprint:10.48550/arXiv.2510.19489. Code:<https://github.com/FBartos/PublicationBiasBenchmark>

31. Wong, T.K., **Pawel, S.**, Tendeiro, J.N. (2025). BayesPower: A General Application of Power and Sample Size Calculation for the Bayes Factor. Preprint:10.31234/osf.io/pgdac_v1. Code:<https://github.com/tkWong3004/BayesPower>
30. Huang, C.J., **Pawel, S.**, Wever, K.E.P., Ineichen, B.V., Heyard, R. (2025). Evaluating the applicability of replication success metrics in animal-to-human translation: A simulation study. *eLife*. Article:10.7554/eLife.109853.3. Preprint:10.1101/2025.11.07.25339757. Code:https://gitlab.uzh.ch/rachelheyard/translation_simulation
29. **Pawel, S.** (2025). A Bayes Factor Framework for Unified Parameter Estimation and Hypothesis Testing. *British Journal of Mathematical and Statistical Psychology*, Article:10.1111/bmsp.70011. Preprint:10.48550/arxiv.2403.09350. Code:<https://github.com/SamCH93/BFF>
28. **Pawel, S.**, Roos, M., Held, L. (2025). Combined P -value Functions for Compatible Effect Estimation and Hypothesis Testing in Drug Regulation. *Statistics in Medicine*, Article:10.1002/sim.70224. Preprint:10.48550/arXiv.2503.10246. Code:<https://github.com/SamCH93/twotrials>
27. **Pawel, S.**, Bartoš, F., Siepe, B.S., Lohmann, A. (2025). Handling Missingness, Failures, and Non-Convergence in Simulation Studies: A Review of Current Practices and Recommendations. *The American Statistician*, Article:10.1080/00031305.2025.2540002. Preprint:10.48550/arXiv.2409.18527. Code:<https://github.com/SamCH93/missSim>. Preregistration:10.17605/OSF.IO/PMV2J
26. Heyard, R., **Pawel, S.**, Frese, J., Voelkl, B., Würbel, H., McCann S., Held, L., Wever, K.E., Hartmann, H., Townsin, L., Zellers, S. (2025). A scoping review on metrics to quantify reproducibility: a multitude of questions leads to a multitude of metrics. *Royal Society Open Science*, Article:10.1098/rsos.242076. Preprint:10.31222/osf.io/apdxk_v2. Code:https://github.com/rachelHey/reproducibility_metrics. Preregistration:<https://osf.io/7vc4z/files/j65wb>
25. Held, L., Hofmann, F., **Pawel, S.**, (2025). A comparison of combined p -value functions for meta-analysis. *Research Synthesis Methods*, Article:10.1017/rsm.2025.26. Preprint:10.48550/arXiv.2408.08135. Code:<https://osf.io/je8xb/>. Simulation code:https://github.com/felix-hof/confMeta_simulation
24. **Pawel, S.**, Held, L. (2025). Closed-Form Power and Sample Size Calculations for Bayes Factors. *The American Statistician*, 79(3): 330–344. Article:10.1080/00031305.2025.2467919. Preprint:10.48550/arxiv.2406.19940. Code:<https://github.com/SamCH93/bfpwr>
23. Kelter, R., **Pawel, S.** (2025). Bayesian Power and Sample Size Calculations for Bayes Factors in the Binomial Setting. Preprint:10.48550/arXiv.2502.02914. Code:<https://osf.io/mn4e3/>
22. Schläpfer, S., Astakhov, G., **Pawel, S.**, Eicher, M., Kowatsch, T., Held, L., Witt, C. M., Barth, J. (2024). Effects of app-based relaxation techniques on perceived momentary relaxation: Observational data analysis in people with cancer. *Journal of Psychosomatic Research*, 111864. Article:10.1016/j.jpsychores.2024.111864. Code:<https://osf.io/9nqyb/>
21. Siepe*, B.S., Bartoš*, F., Morris, T.P., Boulesteix, A.-L., Heck, D.W., **Pawel*, S.** (2024). Simulation Studies for Methodological Research in Psychology: A Standardized Template for Planning, Preregistration, and Reporting. *Psychological Methods*, Article:10.1037/met0000695. Preprint:10.31234/osf.io/ufgy6. Code:<https://github.com/bsiepe/SimPsychReview>. Preregistration:10.17605/OSF.IO/ZAHQV
20. Held, L., **Pawel, S.** (2024). Discussion of Campbell and Gustafson (2023): A Predictive View of the Jeffreys-Lindley Paradox. *Bayesian Analysis*, Article:10.1214/23-BA1397.
19. **Pawel, S.**, Held, L. (2024). Samuel Pawel and Leonhard Held's contribution to the Discussion of 'Safe Testing' by Grünwald, de Heide, and Koolen (2023). *Journal of the Royal Statistical Society: Series B (Statistical Methodology)*, Article:10.1093/jrssi/bqkae064.
18. Held, L., **Pawel, S.**, Micheloud, C., (2024). The assessment of replicability using the sum of p -values. *Royal Society Open Science*, Article:10.1098/rsos.240149. Preprint:10.48550/arXiv.2401.13615. Code:<https://osf.io/uds2a/>
17. **Pawel*, S.**, Heyard*, R., Micheloud, C., Held, L. (2024). Replication of null results: Absence of evidence or evidence of absence? *eLife*, Article:10.7554/eLife.92311. Preprint:10.48550/arXiv.2305.04587. Code:<https://gitlab.uzh.ch/samuel.pawel/rsAbsence>

16. **Pawel, S.,** Aust, F., Held, L., Wagenmakers, E.-J. (2023). Power Priors for Replication Studies. *TEST*, Article:10.1007/s11749-023-00888-5. Preprint:10.48550/arXiv.2207.14720. Code:<https://github.com/SamCH93/ppReplication>
15. **Pawel, S.,** Consonni, G., Held, L. (2023). Bayesian approaches to designing replication studies. *Psychological Methods*, Article:10.1037/met0000604. Preprint:10.48550/arXiv.2211.02552. Code:<https://github.com/SamCH93/BAtDRS>
14. **Pawel, S.,** Aust, F., Held, L., Wagenmakers, E.-J. (2023). Normalized power priors always discount historical data. *Stat*, 12(1), e591. Article:10.1002/sta4.591. Preprint:10.48550/ARXIV.2206.04379. Code:<https://github.com/SamCH93/ppPooling>
13. **Pawel, S.,** Ly, A., Wagenmakers, E.-J. (2023). Evidential Calibration of Confidence Intervals. *The American Statistician*, Article:10.1080/00031305.2023.2216239. Preprint:10.48550/ARXIV.2206.12290. Code:<https://github.com/SamCH93/ECoCI>
12. **Pawel*, S.,** Kook*, L., Reeve, K. (2023). Pitfalls and potentials in simulation studies: Questionable research practices in comparative simulation studies allow for spurious claims of superiority of any method. *Biometrical Journal*, e2200091. Article:10.1002/bimj.202200091. Preprint:10.48550/arXiv.2203.13076. Code:<https://github.com/SamCH93/SimPaper>. Preregistration:10.5281/zenodo.6364575
11. Drude, N., Martinez-Gamboa, L., Danziger, M., Collazo, A., Kniffert, S., Wiebach, J., Nilsonne, G., Konietzschke, F., Piper, S., **Pawel, S.,** . . . , Toelch, U. (2022). Planning preclinical confirmatory multicenter trials to strengthen translation from basic to clinical research – a multi-stakeholder workshop report. *Translational Medicine Communications*, 7(24). Article:10.1186/s41231-022-00130-8. Preprint:10.21203/rs.3.rs-1855244/v1
10. Bartoš, F., **Pawel, S.,** Wagenmakers, E.-J. (2022). When Evidence and Significance Collide. Preprint:10.48550/arXiv.2206.04435. Code:<https://osf.io/hvmkc/>
9. Debelak, R., **Pawel, S.,** Strobl, C., Merkle, E. C. (2022). Score-based measurement invariance checks for Bayesian maximum-a-posteriori estimates in item response theory. *British Journal of Mathematical and Statistical Psychology*, 75(3), 728–752. Article:10.1111/bmsp.12275. Preprint:10.31234/osf.io/24a9g
8. **Pawel, S.,** Matthews, R., Held, L. (2022). Comment on “Bayesian additional evidence for decision making under small sample uncertainty”. *BMC Medical Research Methodology*, 22(149). Article:10.1186/s12874-022-01635-4. Code:<https://github.com/SamCH93/BAEcomment>
7. **Pawel, S.,** Held, L. (2022). The sceptical Bayes factor for the assessment of replication success. *Journal of the Royal Statistical Society: Series B (Statistical Methodology)*, 84(3). 879–911. Article:10.1111/rssb.12491. Preprint:10.48550/arXiv.2009.01520. Code:<https://gitlab.uzh.ch/samuel.pawel/BFScode>
6. Held, L., Micheloud, C., **Pawel, S.** (2022). The assessment of replication success based on relative effect size. *The Annals of Applied Statistics*, 16(2), 706–720. Article:10.1214/21-AOAS1502. Preprint:10.48550/arXiv.2009.07782. Code:<https://github.com/SamCH93/RSgolden>
5. Held, L., Matthews, R., Ott, M., **Pawel, S.** (2022). Reverse-Bayes methods for evidence assessment and research synthesis. *Research Synthesis Methods*, 13(3), 295–314. Article:10.1002/jrsm.1538. Preprint:10.48550/arXiv.2102.13443. Code:<https://gitlab.uzh.ch/samuel.pawel/Reverse-Bayes-Code>
4. Lenggenhager, D., **Pawel, S.,** Honcharova-Biletska, H., Evert, K., Wenzel, J. J., Montani, M., Furrer, E., Fraga, M., Moradpour, D., Sempoux, C., Weber, A. (2021). The histologic presentation of hepatitis E reflects patients’ immune status and pre-existing liver condition. *Modern Pathology*, 34, 233–248. Article:10.1038/s41379-020-0593-1
3. Held, L., **Pawel, S.,** Schwab S. (2020). Replication power and regression to the mean. *Significance*, 17(6), 10–11. Article:10.1111/1740-9713.01462
2. Held, L., **Pawel, S.** (2020). Comment on “The Role of *p*-Values in Judging the Strength of Evidence and Realistic Replication Expectations”. *Statistics in Biopharmaceutical Research*, 13(1), 46–48. Article:10.1080/19466315.2020.1828161

1. **Pawel, S.,** Held, L. (2020). Probabilistic forecasting of replication studies. *PLOS ONE*, 15(4), e0231416. Article:10.1371/journal.pone.0231416. Preprint:10.31234/osf.io/fhwb7. Code:<https://github.com/SamCH93/PFoRS>

Other Works

7. Degen, P., Meesters, C., Fraga-Gonzalez, G., **Pawel, S.,** Molo, F. (2025). CRS Primer: Managing Complex Data Analysis Workflows. Publication:10.5281/zenodo.15789797.
6. **Pawel, S.,** Kutlar, L., Knöpfle, P. (2025). A Robustness Reproduction of “Do We Become More Lonely With Age? A Coordinated Data Analysis of Nine Longitudinal Studies”. Article:<https://hdl.handle.net/10419/316396>. doi:10.5281/zenodo.14795690. Code:<https://github.com/SamCH93/loneliness-trajectories>
5. Molo, F., **Pawel, S.,** Fraga-Gonzalez, G. (2024). A robustness reproduction of “A systematic review and meta-analysis of 90 cohort studies of social isolation, loneliness and mortality”. Article:<https://hdl.handle.net/10419/303907>. doi:10.5281/zenodo.13587432. Code:<https://gitlab.uzh.ch/crsuzh/nhb-replication>
4. Siepe*, B.S., Bartoš*, F., Morris, T.P., Boulesteix, A.-L., Heck, D.W., **Pawel*, S.** (2024). ADEMP-PreReg Simulation Study Template. doi:10.5281/zenodo.10057883. Development repository:<https://github.com/bsiepe/ADEMP-PreReg>. Interview:<https://www.cos.io/blog/introducing-the-simulation-studies-preregistration-template>
3. **Pawel, S.,** Held, L. (2023). Multisite generalizations of replicability measures. Working paper:10.5281/zenodo.8379956.
2. Hofmann, F., **Pawel, S.,** Hebeisen, M., Held, L. (2023). CRS Primer: Dynamic Reporting. Publication:10.5281/zenodo.8354360.
1. Hofmann, F., **Pawel, S.,** Röthlisberger, M., Held, L. (2023). CRS Primer: Digital Collaboration. Publication:10.5281/zenodo.8354375.

Software

bfpwr	Power and sample size calculations for Bayes factor analyses	Role: Creator
brar	Bayesian response-adaptive randomization for multi-arm trials	Role: Creator
ciCalibrate	Support intervals from confidence intervals or parameter estimates	Role: Creator
twotrials	Combined <i>p</i> -values, estimates, and confidence intervals for two trials	Role: Creator
BayesRep	Bayes factor analysis of replication studies	Role: Creator
BayesRepDesign	Bayesian design of replication studies	Role: Creator
ppRep	Analysis of replication studies using power priors	Role: Creator
ReplicationSuccess	Design and analysis of replication studies (sceptical <i>p</i> -value)	Role: Contributor

All packages are available on CRAN; see also samch93.r-universe.dev.

Grants

2026 – SNSF Scientific Exchanges: 9'300 CHF (Co-applicant)

2022 – Mobility grant in SNSF research project: 5'923 CHF

Awards and Prizes

Master Thesis: *Predictive Evaluation of Replication Studies* – UZH Semester award for outstanding scholarly work

Invited Talks

8. Researcher degrees of freedom and questionable research practices in simulation studies. *Working Group “Quality Standards of Simulation Studies” of the Methods and Evaluation Division of the German Psychological Society (DGPs)*, Online, 2026, June
7. Replication of null results: Absence of evidence or evidence of absence? *Preclinical Rethinking Webinar*, Berlin Institute of Health at Charité, Online, DE, 2025, April
6. Simulation Studies for Methodological Research: State of the Art, Issues, and Potential Solutions (with Björn Siepe). *Methods and Evaluation / Quality Assurance Unit: Research Colloquium*, Berlin, DE, 2025, April
5. Meta-scientific perspectives on simulation studies in methodological research: Status quo, issues, and potential solutions. *Workshop on Veridical Data Science*, Rome, IT, 2025, June
4. Meta-scientific perspectives on simulation studies, *ZüKoSt: Seminar on Applied Statistics*, ETH Zurich, CH, 2024, October
3. Discussion of Campbell and Gustafson (2023): A Predictive View of the Jeffreys-Lindley Paradox (supporting Leonhard Held). *Bayesian Analysis discussion webinar*, 2024, October
2. Bayes Factors for Testing and Estimation, *NANOGrav New Physics Working Group telecon*, 2024, February
1. Pitfalls and Potentials in Simulation Studies, *ReproducibiliTea Journal Club*, Center for Reproducible Science, Zurich, CH, 2022, November

Conference Contributions

14. Talk: Stabilizing Thompson Sampling with Null Hypothesis Bayesian Response-Adaptive Randomization, *Bayesian Biostatistics 2026*, Leiden, NL, 2026, October
13. Poster: Stabilizing Thompson Sampling with Null Hypothesis Bayesian Response-Adaptive Randomization, *ISBA World Meeting*, Nagoya, JP, 2026, July
12. Talk: From the Classroom to the Clinic: Teaching Reproducibility in Statistics Education. *CEN 2026*, Warsaw, PL, 2026, May
11. Talk: Closed-Form Power and Sample Size Calculations for Bayes Factors. *SISBAYES 2025*, Padova, IT, 2025, September
10. Talk: Combined *P*-Value Functions for Compatible Effect Estimation and Hypothesis Testing in Drug Regulation. *Annual Conference of the ISCB*, Basel, CH, 2025, August

9. Talk: Handling Missingness, Failures, and Non-Convergence in Simulation Studies: A Review of Current Practices and Recommendations. *DAGStat 2025*, Berlin, DE, 2025, March
8. Talk: Replication of null results: Absence of evidence or evidence of absence? *META-REP 2024*, Munich, DE, 2024, October
7. Talk: Bayesian Approaches to Designing Replication Studies, *53rd DGPs Congress/15th ÖGP Conference*, Vienna, AT, 2024, September
6. Talk: Improving the quality of simulation studies with simulation protocols, *Swiss Reproducibility Conference 2024*, Zurich, CH, 2024, June
5. Talk: Power Priors for Replication Studies, *Bayesian Biostatistics 2023*, Utrecht, NL, 2023, October
4. Talk: Pitfalls and Potentials in Simulation Studies, *CEN 2023*, Basel, CH, 2023, September
3. Poster: Evidential Calibration of Confidence Intervals, *Workshop: "Safe, Anytime-Valid Inference (SAVI) and Game-theoretic Statistics"*, Eindhoven, NL, 2022, May
2. Talk: The sceptical Bayes factor for the evidential assessment of replication success, *GMDS & CEN-IBS 2020*, Berlin, DE, 2020, September
1. Talk: Predictive evaluation of replication studies, *Bayesian Biostatistics*, Lyon, FR, 2019, May

Organized Events

8. Conference: 1st Interdisciplinary Symposium on Meta Science for Methods Research (with Mark D. Robinson and Carolin Strobl). Zurich, CH, 2026, August/September.
7. Workshop: <https://crsuzh.pages.uzh.ch/workshop-quarto-2026-unibas/> (with Fabio Molo and Peter Degen). Basel, CH, 2026, June.
6. Workshop: Reproducible Research Workflows with Quarto and R – Getting started (with Fabio Molo, Peter Degen, and Gorka Fraga-Gonzalez). Geneva, CH, 2025, November.
5. Workshop: Reproducible and Dynamic Reporting with R and Quarto – Getting started (with Fabio Molo and Gorka Fraga-Gonzalez). Zurich, CH, 2025, May.
4. Hackathon: Reproducibility Hackathon at the Swiss Reproducibility Conference 2024 on 11th June 2024. Organized with Peter Degen. 19 Participants. Report:10.5281/zenodo.12516515
3. Workshop: Dynamic Reporting (with Felix Hofmann). UZH Reproducibility Day 2023. February 2023.
2. Hackathon: Swiss ReproHack on 20th May 2022. Organized with Charlotte Micheloud, Ursa Bernardic, and Marianna Rosso. 13 Participants from all over Switzerland. Talks by Mark Robinson, Anja Eggert, Tim Errington.
1. Workshop: Design of Replication Experiments (with Leonhard Held and Charlotte Micheloud). LMU Munich. February 2020.

Teaching

STA 462: Systematic Review and Meta-Analysis Winter School (MSc in Biostatistics) <i>Instructor</i>	2026
STA 472 Good Statistical Practice (MSc in Biostatistics) <i>Instructor</i>	2025/26
STA 490 Statistical Practice in Clinical Research (MSc in Biostatistics) <i>Supervisor</i>	2023/24/25/26
STA 480 Biostatistics Journal Club (MSc in Biostatistics) <i>Teaching Assistant</i> (2021), <i>Instructor</i> (2023, 2024)	2021/23/24
STA 431 Longitudinal Data Analysis (MSc in Biostatistics) <i>Teaching Assistant</i>	2020/25
STA 404 Clinical Biostatistics (MSc in Biostatistics) <i>Teaching Assistant</i> (2019), <i>Guest Lecturer</i> (2025)	2019/25

Supervision

Samira Innocente (MSc in Biostatistics) <i>Master thesis</i> – A neutral comparison of e-values and traditional methods for sequential analysis in clinical trials <i>Consulting project</i> – Associations between Mild Traumatic Brain Injury and Neurodegenerative Diseases: A Systematic Review and Meta-Analysis of Observational Studies	2026
Martin Quintas (MSc in Biostatistics) <i>Consulting project</i> – Bleeding Complications in Partial Nephrectomy	2025
Damian Brühlhart (MSc in Biostatistics) <i>Consulting project</i> – Trends in cardiovascular risk factors in Switzerland: a pre vs. post COVID-19 pandemic comparison	2024
Roberto Macrì Demartino (Visiting PhD Student) <i>Research project</i> – Mixture priors for replication studies	2023
Carolyne Huang (MSc in Biostatistics) <i>Consulting project</i> – Single-slice quantitative MRI of the thigh for differential assessment of fasting-related body composition changes	2023
Georgy Astakhov (MSc in Biostatistics) <i>Consulting project</i> – Immediate subjective effects of relaxation exercises in a mindfulness and relaxation app	2023

Memberships and Other Roles

- Research Fellow of the Institute for Replication (I4R) (since 2026)
- Fellow of the Center for Reproducible Science and Research Synthesis from the University of Zurich (since 2021)
- Founding member and coordinator of the Swiss Reproducibility Network Academy (since 2021)
- Co-Organizer of the Zurich R User Group (from 2020 to 2023)
- Member of the International Society for Bayesian Analysis (since 2020)

Member of the International Society for Clinical Biostatistics (since 2025)

Member of the International Biometric Society (IBS) (since 2025)

Member of the Austro-Swiss region (ROeS) of the IBS (since 2025)

Reviewer for Journals

Journal of the American Statistical Association (3)	The Annals of Applied Statistics (1)
Nature (1)	Biometrical Journal (5)
Biometrics (2)	The American Statistician (1)
PLOS ONE (1)	Research Synthesis Methods (1)
New England Journal of Statistics in Data Science (1)	Behavior Research Methods (3)
BMC Medical Research Methodology (2)	Statistics in Medicine (1)
Statistical Methods & Applications (1)	Statistics in Biopharmaceutical Research (1)
Bayesian Analysis (1)	Journal of the Royal Statistical Society: Series C (1)
Meta-Psychology (1)	Communications Psychology (1)
Journal of the Royal Statistical Society: Series A (1)	British Journal of Mathematical and Statistical Psychology (2)
Psychological Methods (1)	Advances in Methods and Practices in Psychological Science (1)
Statistical Papers (1)	

Skills

Languages	English (fluent), German (native), French (basic), Polish (beginner), Japanese (beginner)
Computer	R (advanced), $\text{\LaTeX}$ (intermediate), Linux/shell/git/Docker/Make (intermediate), Python (basic)