

# Curriculum Vitae

## Felix Zimmer

PhD Candidate in Psychology, University of Zurich

Born: June 13, 1995, Mainz, Germany  
Address: Binzmühlestrasse 14, Box 27, CH-8050 Zurich  
Mail: felix.zimmer@mail.de  
Web: flxzimmer.github.io

## Education

04/2020 – present **PhD in Psychology**, University of Zurich, Switzerland  
04/2018 – present **BSc Mathematics**, FernUniversität in Hagen, Germany  
10/2014 – 02/2020 **MSc Psychology**, Johannes Gutenberg University Mainz, Germany

## Work Experience

08/2022 – present **Visiting PhD Student**, Institute of Psychiatry, Psychology & Neuroscience, King's College London  
04/2020 – present **PhD Student**, Department of Psychological Methods, Evaluation and Statistics, University of Zurich  
04/2019 – 06/2019 **Research Intern**, Department for Psychological Methods and Diagnostics, LMU Munich  
03/2018 – 04/2020 **Student Assistant**, Department for Social and Legal Psychology, JGU Mainz  
03/2017 – 10/2018 **Student Assistant**, LIBERMED – Independent Medical Education  
01/2017 – 04/2017 **Research Intern**, University Medical Center Mainz

## Teaching

2022 **Seminar** "Applications of Deep Learning in Psychology", University of Zurich [open materials in German]

## Awards

2022 Mobility grant for research stay with Prof. Daniel Stahl, King's College London (CHF 14,243, Swiss National Science Foundation)  
2021 Best poster award, "MaDoKo" - Master and Doctoral Students Congress 2021, University of Zurich  
2020 Award for the master thesis "Applications of machine learning in psychology - a review" for outstanding performance, JGU Mainz

## Software

**mlpwr** A Power Analysis Toolbox to Find Cost-Efficient Study Designs [CRAN]  
**irtpwr** Power Analysis for IRT Models Using the Wald, LR, Score, and Gradient Statistics [CRAN]

## Publications

### Journal Articles

- 1 Imhoff, R., **Zimmer, F.**, Klein, O., António, J. H. C., Babinska, M., Bangerter, A., Bilewicz, M., Blanuša, N., Bovan, K., Bužarovska, R., Cichocka, A., Delouvé, S., Douglas, K. M., Dyrendal, A., Etienne, T., GJoneska, B., Graf, S., Gualda, E., Hirschberger, G., ... van Prooijen, J.-W. (2022). Conspiracy mentality and political orientation across 26 countries. *Nature Human Behaviour*, 6(3), 392–403. <https://doi.org/10.1038/s41562-021-01258-7>
- 2 **Zimmer, F.**, Draxler, C., & Debelak, R. (2022). Power analysis for the Wald, LR, score, and gradient tests in a marginal maximum likelihood framework: Applications in IRT. *Psychometrika*. <https://doi.org/10.1007/s11336-022-09883-5>
- 3 Adam-Troian, J., Wagner-Egger, P., Motyl, M., Arciszewski, T., Imhoff, R., **Zimmer, F.**, Klein, O., Babinska, M., Bangerter, A., Bilewicz, M., Blanuša, N., Bovan, K., Bužarovska, R., Cichocka, A., Çelebi, E., Delouvé, S., Douglas, K. M., Dyrendal, A., GJoneska, B., ... Prooijen, J.-W. (2021). Investigating the links between cultural values and belief in conspiracy theories: The key roles of collectivism and masculinity. *Political Psychology*, 42(4), 597–618. <https://doi.org/10.1111/pops.12716>
- 4 **Zimmer, F.**, & Imhoff, R. (2020). Abstinence from masturbation and hypersexuality. *Archives of Sexual Behavior*, 49(4), 1333–1343. <https://doi.org/10.1007/s10508-019-01623-8>

### Preprints

- 1 **Zimmer, F.**, & Debelak, R. (2022). *Simulation-based design optimization for statistical power: Utilizing machine learning*. PsyArXiv. <https://doi.org/10.31234/osf.io/tnhb2>
- 2 **Zimmer, F.**, Henninger, M., & Debelak, R. (2022). *Sample size planning for complex study designs: A tutorial for the mlpwr package*. PsyArXiv. <https://doi.org/10.31234/osf.io/r9w6t>

### Letters

- 1 Imhoff, R., & **Zimmer, F.** (2020). Men's reasons to abstain from masturbation may not reflect the conviction of "reboot" websites. *Archives of Sexual Behavior*, 49(5), 1429–1430. <https://doi.org/10.1007/s10508-020-01722-x>

### Talks

- 09/2022 **Conference Talk**, Congress of the German Psychological Society (Hildesheim, Germany)  
"Simulation-based Sample Size Planning using Machine Learning"
- 07/2022 **Conference Talk**, International Meeting of the Psychometric Society (Bologna, Italy)  
"Utilizing machine learning for simulation-based design optimization"
- 03/2022 **Conference Talk**, Conference of the Deutsche Arbeitsgemeinschaft Statistik (Hamburg, Germany)  
"Simulation-based design optimization for statistical power: Utilizing machine learning"
- 03/2022 **Invited Colloquium Talk**, Esther Ulitzsch, IPN Kiel (online)  
"Simulation-based design optimization for statistical power: Utilizing machine learning"
- 12/2021 **Invited Colloquium Talk**, Steffi Pohl, Free University of Berlin  
"Simulation-based design optimization for statistical power: Utilizing machine learning"
- 11/2021 **Invited Colloquium Talk**, Rudolf Debelak, University of Leipzig  
"Simulation-based design optimization for statistical power: Utilizing machine learning"

## Talks (continued)

- 09/2021      **Conference Talk**, Conference of the Section Methods and Evaluation in the German Psychological Society (online)  
"Power analysis for the Wald, LR, score and gradient test in a marginal maximum likelihood framework: Applications in IRT"
- 07/2021      **Conference Talk**, International Meeting of the Psychometric Society (online)  
"Power analysis for testing linear hypotheses using marginal maximum likelihood"
- 07/2021      **Conference Talk**, European Congress of Methodology (Valencia, Spain)  
"Power analysis for the Wald, LR, score and gradient test in a marginal maximum likelihood framework: Applications in IRT"