

BJÖRN S. SIEPE

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Marburg, Germany

01st of November, 2025

EDUCATION

University of Marburg <i>PhD Student</i>	10/2022 - present
Goethe University Frankfurt <i>M.Sc. Psychology</i>	11/2020 - 09/2022
Heidelberg University <i>B.Sc. Psychology</i>	10/2017 - 09/2020
Mannheim University <i>B.Sc. Economics</i>	10/2014 - 08/2017
Hölderlin-Gymnasium Heidelberg <i>Abitur (A-levels)</i>	09/2005 - 06/2013

WORK EXPERIENCE

University of Marburg <i>Scientific Assistant, Psychological Methods Lab (PI: Daniel Heck)</i>	10/2022 - present
LOEWE Center DYNAMIC <i>Statistical Consultant</i>	02/2025 - present
Consulting on conceptualization, study planning, statistical analyses, and statistical programming.	
University of Marburg <i>Statistical Consultant, Center for Translational Clinical Psychology</i>	02/2024 - present
Consulting on conceptualization, study planning, statistical analyses, and statistical programming.	
Freelance Work <i>Statistical Consultant</i>	11/2022 - present
Consulting on conceptualization, study planning, statistical analyses, and statistical programming for clinical psychological researchers from multiple research groups.	
University of Groningen <i>Visiting PhD Student (PI: Laura Bringmann)</i>	09/2024 - 10/2024
Research visit in the Psychometrics and Statistics Department	
Goethe University Frankfurt <i>Student Assistant, Departments for Psychological Methods</i>	11/2021 - 08/2022
Leiden University <i>Research Intern, ERC-funded WARN-D Project (PI: Eiko Fried)</i>	03/2022 - 06/2022
Working with experience sampling and passive sensor data in a project aiming to build an early-warning system for depression.	
German Depression Foundation, Research Centre <i>Research Intern, STEADY-project (PI: Ulrich Hegerl)</i>	03/2021 - 04/2021
University Hospital Frankfurt <i>Student Assistant, Horizon 2020-funded Eat2BeNice project</i>	10/2020 - 10/2021

PZN Nordbaden (psychiatric clinic)

02/2020 - 03/2020

Clinical Intern

Institute for Psychosocial Prevention Heidelberg

10/2019 - 12/2019

Student Assistant

TEACHING EXPERIENCE

Philipps University Marburg

2025

Tutor

Course: Modelling and data analysis in R (master's level course statistical programming course).

Philipps University Marburg

2023 & 2024 & 2025

Tutor

Course: Critical reading of research papers (bachelor's level course about methodological criteria of research).

Philipps University Marburg

2022 & 2023 & 2024

Tutor

Course: Multivariate Statistics (bachelor's level course about regression and latent variable modeling).

Brainhack School

2023

Teaching Assistant

Courses: Introduction to git/GitHub, Introduction to Machine Learning in Python, Introduction to Open Data, Introduction to Data Visualization in Python

Goethe University Frankfurt

2022

Tutor

Course: Research Methods and Evaluation II (master's level course about latent variable modeling)

PUBLICATIONS

2025

17. **Siepe, B.S.**, Haslbeck, J.M.B., Kloft, M., Büchner, A., Zhang, Y., Fried, E.I.F., Heck, D.W. (2025). Introducing openESM: A database of openly available experience sampling datasets. *PsyArXiv preprint*.
<https://osf.io/qfdtb.v1>
16. Bartoš, F., Pawel, S., **Siepe, B. S.** (2025). Living synthetic benchmarks: A neutral and cumulative framework for simulation studies. *arXiv preprint*.
<https://doi.org/10.48550/arXiv.2510.19489>
15. Pawel, S., Bartoš, F.[†], **Siepe, B. S.**[†] & Lohmann, A.[†] (2024). Handling missingness, failures, and non-convergence in simulation studies: A review of present practices and recommendations. *The American Statistician*.
<https://doi.org/10.1080/00031305.2025.2540002>
14. **Siepe, B. S.**, Tutunji, R., Rieble, C. L., Proppert, R. K. K., & Fried, E. I. (2025). Associations between ecological momentary assessment and passive sensor data in a large student sample. *Journal of Psychopathology and Clinical Science*, 134(8), 912–925.
<https://psycnet.apa.org/doi/10.1037/abn0001013>

[†]Shared second authorship

13. Cloos, Leonie[‡], **Siepe, B.S.**[‡], Piccirillo, M., Fried, E.I., Wang, S.B., Helmich, M.A., Johnson, S.U., Hoffart, A. & Ebrahimi, O.V. (2025). Accuracy and Consistency of Visual Analog Scales in Ecological Momentary Assessment and Digital Studies. *Collabra: Psychology*, 11 (1): 142735. <https://doi.org/10.1525/collabra.142735>
12. **Siepe, B.S.**, Kloft, M., Zhang, Y., Petersen, F., Bringmann, L.F., & Heck, D.W. (2025). Using features of dynamic networks to guide treatment selection and outcome prediction: The central role of uncertainty. *PsyArXiv Preprint* https://doi.org/10.31234/osf.io/2c8xf_v1
11. **Siepe, B. S.**, Rieble, C. L., Tutunji, R., Rimpler, A., März, J., Proppert, R. K. K., & Fried, E. I. (2025). Understanding EMA Data: A Tutorial on Exploring Item Performance in Ecological Momentary Assessment Data. *Advances in Methods and Practices in Psychological Science*, 8(1). <https://doi.org/10.1177/25152459241286877>
10. **Siepe, B. S.**, Kloft, M., Aktepe, S. C., & Heck, D. W. (2025). A Robustness Reproduction of Cox et al. (2023). *I4R Discussion Paper Series No. 196*. <https://hdl.handle.net/10419/308794>

2024

9. **Siepe, B.S.**, Bartoš, F., Morris, T. P., Boulesteix, A., Heck, D. W., & Pawel (2024). Simulation Studies for Methodological Research in Psychology: A Standardized Template for Planning, Pre-registration, and Reporting. *Psychological Methods*. Advance Online Publication. <https://doi.org/10.31234/osf.io/ufgy6>
8. Kloft, M., **Siepe, B. S.** & Heck, D. W. (2024). The Interval Truth Model: A Consensus Model for Continuous Bounded Interval Responses. *PsyArXiv Preprint*. <https://doi.org/10.31234/osf.io/dzvw2>
7. Langener, A., **Siepe, B. S.**, Elsherif, M. M., Niemeijer, K., Andresen, P. K., Akre, S., ... Jacobson, N. C. (2024). A Template and Tutorial for Preregistering Studies Using Passive Smartphone Measures. *Behavior Research Methods*. Advance Online Publication. <https://doi.org/10.3758/s13428-024-02474-5>
6. **Siepe, B.S.**, Sander, C., Schultze, M., Kliem, A., Ludwig, S., Hegerl, U., & Reich, H. (2024). Time-Varying Network Models for the Temporal Dynamics of Depressive Symptomatology in Patients With Depressive Disorders: Secondary Analysis of Longitudinal Observational Data. *JMIR Mental Health*, 11:e50136. <https://doi.org/10.2196/50136>
5. **Siepe, B.S.**, Kloft, M., Heck, D.W. (2024). Bayesian Estimation and Comparison of Idiographic Network Models. *Psychological Methods*. Advance Online Publication. <https://doi.org/10.31234/osf.io/uwfjc>
4. Westhoff, M., Heshmati, S., **Siepe, B. S.**, Vogelbacher, C., Ciarrochi, J., Hayes, S. C., & Hofmann, S. G. (2024). Psychological flexibility and cognitive-affective processes in young adults' daily lives. *Scientific Reports* 14, 8182. <https://doi.org/10.1038/s41598-024-58598-3>
3. Rimpler, A., **Siepe, B. S.**, Rieble, C. L., Proppert, R. K., & Fried, E. I. (2024). Introducing FRED: Software for Generating Feedback Reports for Ecological Momentary Assessment Data. *Administration and Policy in Mental Health and Mental Health Services Research*, 1-11. <https://doi.org/10.1007/s10488-023-01324-4>

2023

[‡]Shared first authorship

2. **Siepe, B. S.**, & Heck, D. W. (2023). Multiverse analysis for dynamic network models: Investigating the influence of plausible alternative modeling choices. *OSF Preprint*.
<https://doi.org/10.31219/osf.io/etm3u>

2022

1. Talia, A., Georg, A., **Siepe, B.S.**, Gullo, S., Miller-Bottomo, M., Volkert, J., ... & Taubner, S. (2022). An exploratory study on how attachment classifications manifest in group psychotherapy. *Research in Psychotherapy: Psychopathology, Process and Outcome*, 25(3), 286-298.
<https://doi.org/10.4081/ripppo.2022.653>

BOOK CHAPTERS

2021

1. Talia, **Siepe, B.S.**(2021). Von der Wiege bis in den Behandlungsraum: Zur Manifestation von Bindungsmustern in der Psychotherapie *Bindung und psychische Störungen: Ursachen, Behandlung und Prävention*

INVITED TALKS

2025

7. *Simulation Studies for Methodological Research: State of the Art, Issues, and Potential Solutions*. Colloquium of the Statistics and Psychological Methods Working Unit, University of Münster (June 2025).
6. *Simulation Studies for Methodological Research: State of the Art, Issues, and Potential Solutions*. Invited Talk with Samuel Pawel, Colloquium of the Methods and Evaluation / Quality Assurance Unit, Freie Universität Berlin (April 2025), online.
5. *Why, when, and how (not) to preregister*. Invited Talk, Neurophysics Group Meeting, Department of Physics, University of Marburg (February 2025).

2024

4. *Exploration of Ecological Momentary Assessment Data*. Invited Talk, Measurement is the new black consortium meeting (May 2024), online.
3. *Historical and Recent Trends in the Forecasting Literature*. Invited Talk, WARN-D Group Friday Science Meeting, Leiden University (February 2024), online.

2023

2. *Good Practices for Simulation Studies*. Invited Talk, ReproducibiliTea Frankfurt (November 2023), online.

2021

1. *Journal of European Psychology Students & Academic Writing Primer*. Invited Talk, EFPSA Research Summer School (July 2021), online.

WORKSHOPS

2025

8. *Reproducible research in R and Quarto*. 6h workshop for the Graduate School of Education, University of Wuppertal (June 2025).

7. *Research on research methods*. 3h workshop on simulation studies for German students and PhD candidates, with Susanne Frick & Julien Irmer, online (May 2025).
6. *Preregistration in psychology and related fields*. 4h Workshop, with Anabel Büchner, Berlin University Alliance (January 2025).

2024

5. *Introduction to Data Visualization in R*. 1h Interactive Session, Correlaid R Learning Program, Online (November 2024).
4. *Introduction to Dynamic Network Analysis*. 2h Workshop, DYNAMIC Centre ECR Day, Goethe University Frankfurt (October 2024).
3. *Analysis of Pre-Post Designs*. 1.5h Workshop, Department of Clinical Psychology and Psychotherapy, University of Marburg (March 2024).

2023

2. *Dynamic Network Analysis in R*. 3h Workshop, Department of Clinical Psychology and Psychotherapy, Goethe University Frankfurt (June 2023).
1. *Introduction to Dynamic Network Analysis*. 1.5h Workshop, Department of Clinical Psychology and Psychotherapy, Goethe University Frankfurt (March 2023).

CONFERENCE PRESENTATIONS

2025

15. *Simulation studies for methodological research: Status quo, problems, and potential solutions*. Symposium talk, Conference of the DGPs Methods and Evaluation Section 2025, Berlin, Germany.
14. *Combining machine learning with mixed effects models*. Symposium organizer and chair, Conference of the DGPs Methods and Evaluation Section 2025, Berlin, Germany.
13. *Panel Discussion: Quality Standards for Simulation Studies*. Panel discussion organizer and panelist, Conference of the DGPs Methods and Evaluation Section 2025, Berlin, Germany.
12. *Associations between ecological momentary assessment and passive sensor data in a large student sample*. Symposium Presentation, Annual Meeting of the Society for Ambulatory Assessment 2025, Leuven, Belgium.
11. *GIMME, GIMME more (network models): Multiverse analysis for dynamic network models*. Symposium Presentation and Co-Chair of the Symposium, Annual Meeting of the Society for Ambulatory Assessment 2025, Leuven, Belgium.
10. *Simulation Studies for Methodological Research in Psychology*. Symposium Presentation, 7th Joint Statistical Meeting of the German Statistical Working Group (DAGStat), Berlin, Germany.

2024

9. *Bayesian Estimation and Comparison of Idiographic Network Models*. Symposium Presentation, International Meeting of the Psychometric Society (IMPS), Prague, Czech Republic.
8. *Quality Standards for Simulation Studies in Psychometrics*. Panel Discussion Participant, International Meeting of the Psychometric Society (IMPS), Prague, Czech Republic.
7. *Simulation Studies for Methodological Research in Psychology*. Lightning Talk, Virtual Meeting of the Society for the Improvement of Psychological Science (SIPS), online.
6. *Simulation Studies for Methodological Research in Psychology*. Presentation, Virtual Meeting of the Society for Mathematical Psychology, online.

2023

5. *Bayesian Estimation and Comparison of Idiographic Network Models*. Symposium Presentation, Meeting of the German Society for Methods & Evaluation in Psychology (FGME), Konstanz, Germany.
4. *Augmenting Self-Reports with Passive Sensor Data to Understand Changes in Mental Health*. Symposium Presentation, Annual Convention of the American Psychological Society (APS), Washington D.C., US.*
3. *Developing EMA Items to Build an Early Warning System for Depression (WARN-D Study)*. Symposium Presentation, Annual Convention of the American Psychological Society (APS), Washington D.C., US.
2. *Using passive sensor data to understand changes in mental health outcomes*. Symposium Presentation, International Convention of Psychological Science (ICPS), Brussels, Belgium.*

2022

1. *Temporal Dynamics of Depressive Symptomatology*. Presentation, Annual Meeting of the German Society for Psychiatry and Psychotherapy (DGPPN), Berlin, Germany.

POSTER PRESENTATIONS

2025

2. *Taking uncertainty into account is central when using dynamic network features as predictors*. Poster Presentation, Conference of the DGPs Methods and Evaluation Section 2025, Berlin, Germany.
1. *Taking uncertainty into account is central when using dynamic network features as predictors*. Poster Presentation, Annual Meeting of the Society for Ambulatory Assessment 2025, Leuven, Belgium.

SOFTWARE

2. **Kloft, M. & Siepe, B.S.** (2025). `intervalpsych`: Analyzing Interval Data in Psychometrics (R Package). Available on CRAN (<https://cran.r-project.org/web/packages/intervalpsych/index.html>).
1. **Siepe, B.S. & Kloft, M.** (2024). `tsnet`: Comparing and Visualizing Networks based on Time Series Data (R Package). Available on CRAN (<https://doi.org/10.32614/CRAN.package.tsnet>).

SUPERVISION

First Supervisor: 7 Bachelor's, 2 Master's theses

Second Supervisor: 6 Bachelor's, 10 Master's theses

AWARDS

Best Poster Award

05/2025

Awarded at the Society for Ambulatory Assessment Conference 2025 for the poster "Taking uncertainty into account is central when using dynamic network features as predictors"

Student Teaching Award

07/2024

Awarded by the student council psychology at the University of Marburg

*Shared first-authorship or coauthor with significant contributions to presentation

GRANTS

DAAD Research Travel Stipend	08/2024
Amount: 2.259€. Financing research stay in Groningen	
Student Teaching Award	07/2024
Awarded by the student council psychology at the University of Marburg	
DAAD Conference Stipend	07/2024
Amount: 950€. Travel to the IMPS 2024 Annual Meeting	
Marburg Research Academy Conference Funding	07/2024
Amount: 1.500€. Co-Applicant on behalf of Open Science Initiative University of Marburg	
APS Conference Financial Assistance	03/2023
Amount: 400\$	
Erasmus Internship Stipend	03/2022
Amount: 1.089€. Financing research stay in Leiden	
German Federal Scholarship (Deutschlandstipendium)	10/2021
Amount: 3.600€ (over one year)	

PROFESSIONAL TRAINING

Combining R and C++ , DAGStat	2025
Linear Algebra for Machine Learning , Imperial College London, Coursera	2022
Modeling the Dynamics of Intensive Longitudinal Data , Utrecht Summer School	2021
Introduction to Statistical Learning , StanfordOnline, edx Course	2021
Practical Time Series Analysis , SUNY, Coursera	2021
Improving your Statistical Inferences , TU Eindhoven, Coursera	2020

ACADEMIC SERVICE

Member of Tenure Track Commission, Department of Psychology, Uni Marburg	2025 - present
Member of Professorship Appointment Committee for a Clinical Professorship, Department of Psychology, Uni Marburg	2025 - present
Head of the special interest group for quality standards for simulation studies of the Quantitative Methods Subgroup of the German Psychological Association	2025 - present
Member of Doctoral Committee, Department of Psychology, Uni Marburg	2023 - present
Board Member Open Science Initiative, Uni Marburg	2022 - present
Co-Organizer Brainhack Marburg	2023 & 2024 & 2025
Co-Organizer Open Science Days Marburg	2023
Co-Host ReproducibiliTea Frankfurt	2022
Editorial Team, Journal of European Psychology Students	2021 - 2023
Student Council Psychology, Goethe University Frankfurt	2021 - 2022

PROFESSIONAL MEMBERSHIPS

Member of the Society for Ambulatory Assessment (SAA)	2025 - present
Member of the German Society for Psychology (DGPS)	2023 - present

COMMUNITY SERVICE

CorrelAid Volunteer	2024 - present
Student tutor at Asylarbeitskreis Heidelberg (refugee aid)	2015 - 2021
Co-host of yearly after-school orientation day, Hölderlin-Gymnasium	2019 - 2021
Involvement with Jugend Rettet (refugee aid)	2017 - 2018
Assistant coach, youth soccer team of ASC Neuenheim	2013 - 2014

MEDIA COVERAGE

Press release by Leiden University on our article “Associations between ecological momentary assessment and passive sensor data in a large student sample” ([URL](#))
Article on the same paper in The Guardian ([URL](#)) and Gizmodo ([URL](#))
Interview on the Center for Open Science Blog about preregistration for simulation studies ([URL](#))

SKILLS

Languages	German (mother tongue), English (fluent), French (basic skills)
Programming	R, Python, Stan, Git, Docker
Analyses	Time Series Analysis, Network Analysis, Machine Learning, Bayesian Statistics
Other	GIMP, L ^A T _E X, Markdown, Quarto, reveal.js

REVIEWING

Ad-Hoc reviewer for *Administration and Policy in Mental Health and Mental Health Services Research*; *Behavior Research Methods*; *Brain, Behavior, & Immunity - Health*; *Acta Psychiatrica Scandinavica*; *Advances in Methods and Practices in Psychological Science*; *Child Psychiatry & Human Development*; *Journal of Consulting & Clinical Psychology*; *Psychological Methods*; *npj Digital Medicine*; *Nature Human Behaviour*; *Multivariate Behavioral Research*; *Journal of Open Source Software*; *Cognitive Therapy and Research*; *Journal of Robustness Reports*.
Reviewer for the Bi-Annual Meeting (2024) of the *German Psychological Society (DGPS)*.