

# BJÖRN S. SIEPE

Marburg, Germany

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## EDUCATION

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

## WORK EXPERIENCE

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<b>University of Marburg</b> <i>Scientific Assistant, Psychological Methods Lab (PI: Daniel Heck)</i>	02/2024 - present
<b>University of Marburg</b> <i>Statistical Consultant, Center for Translational Clinical Psychology</i> Consulting on conceptualization, study planning, statistical analyses, and statistical programming.	02/2024 - present
<b>Freelance Work</b> <i>Statistical Consultant</i> Consulting on conceptualization, study planning, statistical analyses, and statistical programming for clinical psychological researchers from multiple research groups.	11/2022 - present
<b>University of Groningen</b> <i>Visiting PhD Student (PI: Laura Bringmann)</i> Research visit in the Psychometrics and Statistics Department	09/2024 - 10/2024
<b>Goethe University Frankfurt</b> <i>Student Assistant, Departments for Psychological Methods</i>	11/2021 - 08/2022
<b>Leiden University</b> <i>Research Intern, ERC-funded WARN-D Project (PI: Eiko Fried)</i> Working with experience sampling and passive sensor data in a project aiming to build an early-warning system for depression.	03/2022 - 06/2022
<b>German Depression Foundation, Research Centre</b> <i>Research Intern, STEADY-project (PI: Ulrich Hegerl)</i>	03/2021 - 04/2021
<b>University Hospital Frankfurt</b> <i>Student Assistant, Horizon 2020-funded Eat2BeNice project</i>	10/2020 - 10/2021
<b>PZN Nordbaden (psychiatric clinic)</b> <i>Clinical Intern</i>	02/2020 - 03/2020
<b>Institute for Psychosocial Prevention Heidelberg</b> <i>Student Assistant</i>	10/2019 - 12/2019

## TEACHING EXPERIENCE

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**Philipps University Marburg**

2023 & 2024

*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

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### 2025

14. Cloos, Leonie<sup>‡</sup>, **Siepe, B.S.<sup>‡</sup>**, 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. *OSF Preprint*  
[https://doi.org/10.31219/osf.io/h2p4w\\_v1](https://doi.org/10.31219/osf.io/h2p4w_v1)
13. **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

12. **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>
11. 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/dzvz2>
10. Pawel, S., Bartoš, F.<sup>‡</sup>, **Siepe, B. S.<sup>‡</sup>** & Lohmann, A.<sup>†</sup> (2024). Handling Missingness, Failures, and Non-Convergence in Simulation Studies: A Review of present Practices and Recommendations. *ArXiv Preprint*.  
<https://doi.org/10.48550/arXiv.2409.18527>
9. **Siepe, B. S.**, Tutunji, R., Rieble, C. L., Proppert, R. K. K., & Fried, E. I. (2024). Associations between ecological momentary assessment and passive sensor data in a large student sample. *PsyArXiv Preprint*.  
<https://doi.org/10.31234/osf.io/ybns6>

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<sup>‡</sup>Shared first authorship

<sup>†</sup>Shared second authorship

8. 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>
7. **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>
6. **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>
5. 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>
4. **Siepe, B. S.**, Rieble, C. L., Tutunji, R., Rimpler, A., März, J., Proppert, R. K. K., & Fried, E. I. (2024). Understanding EMA Data: A Tutorial on Exploring Item Performance in Ecological Momentary Assessment Data. *PsyArXiv Preprint*.  
<https://doi.org/10.31234/osf.io/dvj8g>
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

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-Bottom, 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

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### 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

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### 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

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### 2025

6. *Preregistration in psychology and related fields*. 4h Workshop, 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, Germany (October 2024).
3. *Analysis of Pre-Post Designs*. 1.5h Workshop, Department of Clinical Psychology and Psychotherapy, University of Marburg, Germany (March 2024).

### 2023

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

## CONFERENCE PRESENTATIONS

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### 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.

## SOFTWARE

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1. **Siepe, B.S. & Kloft, M.** (2024). **tsnet** - Comparing and Visualizing Networks based on Time Series Data (R Package). Available on CRAN (<https://cran.r-project.org/web/packages/tsnet/index.html>).

## SUPERVISION

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**First Supervisor:** 6 Bachelor's, 2 Master's theses

**Second Supervisor:** 4 Bachelor's, 6 Master's theses

## GRANTS & AWARDS

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<b>DAAD Research Travel Stipend</b>	08/2024
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Amount: 2.259€. Financing research stay in Groningen

<b>Student Teaching Award</b>	07/2024
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Awarded by the student council psychology at the University of Marburg

<b>DAAD Conference Stipend</b>	07/2024
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Amount: 950€. Travel to the IMPS 2024 Annual Meeting

<b>Marburg Research Academy Conference Funding</b>	07/2024
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Amount: 1.500€. Co-Applicant on behalf of Open Science Initiative University of Marburg

<b>APS Conference Financial Assistance</b>	03/2023
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Amount: 400\$

<b>Erasmus Internship Stipend</b>	03/2022
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Amount: 1.089€. Financing research stay in Leiden

<b>German Federal Scholarship (Deutschlandstipendium)</b>	10/2021
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Amount: 3.600€ (over one year)

## PROFESSIONAL TRAINING

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

<b>Linear Algebra for Machine Learning</b> , Imperial College London, Coursera	2022
<b>Modeling the Dynamics of Intensive Longitudinal Data</b> , Utrecht Summer School	2021
<b>Introduction to Statistical Learning</b> , StanfordOnline, edx Course	2021
<b>Practical Time Series Analysis</b> , SUNY, Coursera	2021
<b>Improving your Statistical Inferences</b> , TU Eindhoven, Coursera	2020

## ACADEMIC SERVICE

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
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

## 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

## SKILLS

<b>Languages</b>	German (mother tongue), English (fluent), French (basic skills)
<b>Programming</b>	R, Python, Stan, Git, Docker
<b>Analyses</b>	Time Series Analysis, Network Analysis, Machine Learning, Bayesian Statistics
<b>Other</b>	GIMP, L <sup>A</sup> T <sub>E</sub> 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*.  
Reviewer for the Bi-Annual Meeting (2024) of the *German Psychological Society (DGPS)*.