

# BJÖRN S. SIEPE

Marburg, Germany

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## EDUCATION

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### University of Marburg

October 2022 - Current

*PhD Student, Scientific Assistant*

Psychological Methods Lab

Supervisor: Prof. Dr. Daniel Heck

### Goethe University Frankfurt

November 2020 - September 2022

*M.Sc. Psychology*

### Heidelberg University

October 2017 - September 2020

*B.Sc. Psychology*

### Mannheim University

October 2014 - August 2017

*B.Sc. Economics*

### Hölderlin-Gymnasium Heidelberg

September 2005 - June 2013

*Abitur (A-levels)*

## WORK EXPERIENCE

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### University of Marburg

February 2024 - Current

*Statistical Consultant, Center for Translational Clinical Psychology*

Consulting on conceptualization, study planning, statistical analyses, and statistical programming.

Focus: Time series analyses and predictive modeling.

### Freelance Work

November 2022 - now

*Statistical Consultant*

Consulting on conceptualization, study planning, statistical analyses, and statistical programming for clinical psychological researchers from multiple research groups.

Focus: Cross-sectional and longitudinal network analyses

### Goethe University Frankfurt

November 2021 - August 2022

*Student Assistant, Departments for Psychological Methods*

Assisting in teaching for master courses in statistics, creating teaching materials and R scripts for open learning platform PandaR, teaching tutorials for master-level statistics courses

### Leiden University

March 2022 - June 2022

*Research Intern, ERC-funded WARN-D Project (PI: Prof. Eiko Fried)*

Working with experience sampling and passive sensor data in a project aiming to build an early-warning system for depression.

Tasks: Handling EMA & Smartwatch Data in R, Statistical Analyses (Time Series, Network Analyses), Participant Recruitment

### German Depression Foundation, Research Centre

March 2021 - April 2021

*Research Intern, STEADY-project (PI: Prof. Ulrich Hegerl)*

Summarizing literature, exploring statistical modelling options for intensive longitudinal experience sampling data, designing experience sampling study, data management in R

**University Hospital Frankfurt**

October 2020 - October 2021

*Student Assistant, Horizon 2020-funded Eat2BeNice project*

Working with experience sampling, nutrition, and passive sensor data to explore the connection of lifestyle variables and affective instability, data management & analysis in R

**PZN Nordbaden (psychiatric clinic)**

February 2020 - March 2020

*Clinical Intern*

Psychotherapy intern, data management, structured interviews, assistance with diagnostics & therapeutic tasks

**Institute for Psychosocial Prevention Heidelberg**

October 2019 - December 2019

*Student Assistant*

Transcription of videotaped psychotherapy sessions, data management

## TEACHING EXPERIENCE

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**Philipps University Marburg**

Summer Semesters 2023 & 2024

*Tutor*

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

**Philipps University Marburg**

Winter Semesters 2022-2023 & 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**

Summer Semester 2022

*Tutor*

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

## PUBLICATIONS

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10. **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>
9. 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*. In Press.  
<https://doi.org/10.31234/osf.io/p4xf8>

8. **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*. In Press.  
<https://doi.org/10.31234/osf.io/ufgy6>
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*. In Press.  
<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>
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>
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>

## INVITED TALKS

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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.
2. *Good Practices for Simulation Studies*. Invited Talk, ReproducibiliTea Frankfurt (November 2023), online.
1. *Journal of European Psychology Students & Academic Writing Primer*. Invited Talk, EFPSA Research Summer School (July 2021), online.

## WORKSHOPS

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3. *Analysis of Pre-Post Designs*. 1.5 h Workshop, Department of Clinical Psychology and Psychotherapy, University of Marburg, Germany (March 2024).

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

## GRANTS & AWARDS

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### Student Teaching Award

July 2024

Awarded by the student council psychology at the University of Marburg

### DAAD Conference Stipend

July 2024

Amount: 950€

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

<b>Marburg Research Academy Conference Funding</b>	July 2024
Amount: 1,500€. Co-Applicant on behalf of Open Science Initiative University of Marburg	
<b>APS Conference Financial Assistance</b>	March 2023
Amount: 400\$	
<b>Erasmus Internship Stipend</b>	March 2022
Amount: 1.089€	
<b>German Federal Scholarship (Deutschlandstipendium)</b>	October 2021
Amount: 3.600€ (over one year)	

### PROFESSIONAL TRAINING

<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
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

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
<b>Analyses</b>	Network Analyses, Time Series Analyses, 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; Brain, Behavior, & Immunity - Health; Acta Psychiatrica Scandinavica; Advances in Methods and Practices in Psychological Science; Child Psychiatry & Human Development*.  
Reviewer for the Bi-Annual Meeting (2024) of the *German Psychological Society (DGPS)*.