

# BJÖRN S. SIEPE

Marburg, Germany

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## EDUCATION

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### **Philipps University 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*

Thesis: Temporal Dynamics of Depressive Symptomatology: An Idiographic Time Series Analysis

GPA: 1,0 (very good, with distinction, 5-point German rating scale)

### **Heidelberg University**

October 2017 - September 2020

*B.Sc. Psychology*

GPA: 1,2 (very good, 5-point German rating scale)

### **Mannheim University**

October 2014 - August 2017

*B.Sc. Economics*

GPA: 2,0 (good, 5-point German rating scale)

### **Hölderlin-Gymnasium Heidelberg**

September 2005 - June 2013

*Abitur (A-levels)*

GPA: 1,0 (very good, 5-point German rating scale)

## WORK EXPERIENCE

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### **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**

Winter Semester 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

**Philipps University Marburg**

Summer Semester 2023

*Tutor*

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

**Philipps University Marburg**

Winter Semester 2022/2023

*Tutor*

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

**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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8. **Siepe, B. S.**, Rieble, C., 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>
7. 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>

6. Westhoff, M., Heshmati, S., **Siepe, B. S.**, Vogelbacher, C., Ciarrochi, J., Hayes, S. C., & Hofmann, S. G. (2023). Stop Being So Rigid: The Interplay of Psychological Flexibility and Cognitive-Affective Processes in the Daily Lives of Young Adults. *Researchsquare Preprint*.  
<https://doi.org/10.21203/rs.3.rs-3742788/v1>
5. **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>
4. **Siepe, B.S.**, Bartoš, F., Morris, T. P., Boulesteix, A., Heck, D. W., & Pawel (2023). Simulation Studies for Methodological Research in Psychology: A Standardized Template for Planning, Pre-registration, and Reporting. *PsyArXiv Preprint*.  
<https://doi.org/10.31234/osf.io/ufgy6>
3. **Siepe, B.S.**, Heck, D.W. (2023). Bayesian Estimation and Comparison of Idiographic Network Models. *PsyArXiv Preprint*.  
<https://doi.org/10.31234/osf.io/uwfmjc>
2. **Siepe, B.S.**, Sander, C., Schultze, M., Kliem, A., Ludwig, S., Hegerl, U., & Reich, H. (2022). Temporal dynamics of depressive symptomatology: An idiographic time series analysis applying network models to patients with depressive disorders. *PsyArXiv Preprint*.  
<https://doi.org/10.31234/osf.io/hnw69>
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>

## INVITED TALKS

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

## WORKSHOPS

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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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8. Siepe, B. S. (2023a, September). *Bayesian Estimation and Comparison of Idiographic Network Models* [Symposium Presentation]. Konstanz, Germany. Meeting of the German Society for Methods & Evaluation in Psychology (FGME).
7. Rieble, C., Siepe, B. S., Proppert, R., & Fried, E. I. (2023a, May). *Augmenting Self-Reports with Passive Sensor Data to Understand Changes in Mental Health* [Symposium Presentation]. Washington, D.C., US. Annual Convention of the American Psychological Society (APS).
6. Siepe, B. S. (2023b, June). *Developing EMA Items to Build an Early Warning System for Depression (WARN-D study)* [Symposium Presentation]. Washington, D.C., US. Annual Convention of the American Psychological Society (APS).

5. Proppert, R., Siepe, B. S., Rieble, C., & Fried, E. I. (2023, March). *Using passive sensor data to understand changes in mental health outcomes* [Symposium Presentation]. Brussels, Belgium. International Convention of Psychological Science (ICPS). \*
4. Rieble, C., Proppert, R., Siepe, B. S., & Fried, E. I. (2023, March). *Changes in mental health: Triangulating information from different self-reports* [Symposium Presentation]. Brussels, Belgium. International Convention of Psychological Science (ICPS).
3. Reich, H., Sander, C., Siepe, B. S., Oppenheimer, H., Wetzels, E., Ludwig, S., ... Hegerl, U. (2022, November). *Ideographic time-series analyses of objective sleep and voice data in Major Depressive Disorder* [Symposium Presentation]. Berlin, Germany. Annual Meeting of the German Society for Psychiatry and Psychotherapy (DGPPN).
2. Siepe, B. S. (2022, November). *Temporal Dynamics of Depressive Symptomatology* [Presentation]. Berlin, Germany. Annual Meeting of the German Society for Psychiatry and Psychotherapy (DGPPN).
1. Proppert, R., Rieble, C., Siepe, B. S., & Fried, E. I. (2022, May). *Validating subjective EMA measures with objective activity tracking* [Symposium Presentation]. Chicago, USA. Annual Convention of the American Psychological Society (APS).

## POSTER PRESENTATIONS

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2. Rieble, C., Siepe, B. S., Proppert, R., & Fried, E. I. (2023b, May). *How Should We Assess Changes in Mental Health? A Multimodal Perspective* [Poster Presentation]. Washington, D.C., US. Annual Convention of the American Psychological Society (APS).
1. Westhoff, M. (2023, May). *Examining Psychosocial Processes of change in Students' Daily Lives during COVID-19: An Ecological Momentary Assessment* [Poster Presentation]. Berlin, Germany. German Psychotherapy Congress.

## SOFTWARE

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1. **Siepe, B.S.** (2023). **tsnet** - Comparing and Visualizing Networks based on Time Series Data (R Package). Available on <https://github.com/bsiepe/tsnet>.

## GRANTS & AWARDS

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<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

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\*Shared first-authorship

<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

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Member of Doctoral Committee Department of Psychology, Uni Marburg	2023 - present
Co-Organizer Open Science Days Marburg	2023
Co-Organizer Brainhack Marburg	2023
Member Open Science Initiative, Uni Marburg	2022 - present
Co-Host ReproducibiliTea Frankfurt	2022
Editorial Team, Journal of European Psychology Students	2021 - 2023
Student council psychology, Goethe University Frankfurt	2021 - 2022

## COMMUNITY SERVICE

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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

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<b>Languages</b>	German (mother tongue), English (fluent), French (basic skills)
<b>Programming</b>	R (advanced), Python (beginner), Git (beginner)
<b>Analyses</b>	Network Analyses, Time Series Analyses, Machine Learning, Latent Variable Modelling
<b>Other</b>	GIMP, L <sup>A</sup> T <sub>E</sub> X, JASP, Markdown, Quarto, reveal.js

## REVIEWING

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Ad-Hoc reviewer for *Administration and Policy in Mental Health and Mental Health Services Research*.