

BJÖRN S. SIEPE

Marburg, Germany

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EDUCATION

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

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

Brainhack School

2023

Teaching Assistang

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

Goethe University Frankfurt

Summer Semester 2022

Tutor

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

PUBLICATIONS

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/uwffc>
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

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

WORKSHOPS

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

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. (2023, 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. (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

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..

*Shared first-authorship

SOFTWARE

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

APS Conference Financial Assistance	March 2023
Amount: 400\$	
Erasmus Internship Stipend	March 2022
Amount: 1.089€	
German Federal Scholarship (Deutschlandstipendium)	October 2021
Amount: 3.600€ (over one year)	

PROFESSIONAL TRAINING

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

Co-Organizer Brainhack 2023 Marburg	2023
Member Open Science Initiative Uni Marburg	2022 - present
Co-Host ReproducibiliTea Frankfurt	2022
Editorial Team, Journal of European Psychology Students	2021 - 2023

COMMUNITY SERVICE

Student council psychology, Goethe University Frankfurt	2021 - 2022
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

Languages	German (mother tongue), English (fluent), French (basic skills)
Programming	R (intermediate), Python (beginner), Git (beginner)
Analyses	Network Analyses, Time Series Analyses, Machine Learning, Latent Variable Modelling
Other	GIMP, L ^A T _E X, JASP, Markdown, Quarto , reveal.js

REVIEWING

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