Valentin Kriegmair

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Personal Information

Date of Birth	09/05/1996 in Munich
Nationality	German
Marital Status	Single

Education

Since 10/2022	Humboldt University of Berlin - Master of Science: Psychology
10/2019 – 07/2022	Ludwig Maximilian University of Munich - Degree: Bachelor of Science: Psychology (Grade: 1.25)
10/2017 – 07/2018	Ludwig Maximilian University of Munich - Bachelor of Arts: Philosophy (major) and Economics (minor)
10/2016 – 07/2017	Ludwig Maximilian University of Munich - Bachelor of Science: Physics

Research Experience

02/2022 – 08/2022	Student Research Assistant, Chair of Neuropsychology, LMU Munich - Worked on MRI and CT data processing using MATLAB (Statistical Parametric Mapping SPM12). Assisted in data collection and processing for studies on neuropsychological processes.
07/03/2022 – 18/04/2022	Research Internship, Chair of Biological Child and Adolescent Psychiatry, University Clinic Cologne - Processed and analyzed physiological and psychometric data. Assisted in creating data visualization tools to improve communication of research findings.
03/2023 – 08/2023	Intern at Max Planck Institute for Human Development (MPIB) in the Formal Methods Group - Developed a user-friendly interface and sampling tools for the Taxonomy.jl project, a comprehensive database of Structural Equation Models (SEMs). Created an automated process using GitHub Actions to generate meeting summaries, leveraging LLMs for efficient team communication.
09/2023 – 09/2024	Student Research Assistant at MPIB in the Formal Methods Group - Continued development of Taxonomy.jl and worked on a Master's thesis on Adversarial Collaboration for Simulation Studies.

Skills and Knowledge

Programming Languages	Proficient in Python, R, and Julia. Demonstrated rapid learning capabilities and adaptability by acquiring new programming languages like Julia within a short timeframe.
Natural Language Processing	Experience in utilizing large language models for task automation, including summarizing meetings and started exploring open source applications of LLMs for meta research.
Version Control and Collaboration	Proficient in Git and familiar with continuous integration practices and Docker. Worked on collaborative projects using version control tools to manage repositories and streamline and dockerize workflows.

Projects

AdversarialSimulation	Master's thesis (in progress). Developed and evaluated a framework for adversarial collaboration in simulation studies to improve generalizability and rigor in Monte Carlo simulations: Comparing structural after measurement to standard SEM estimation.
Taxonomy.jl	Contributed to a comprehensive database for Structural Equation Models, focusing on making SEMs more accessible and useful for simulation studies.
MinervasMemo	Created an automated workflow using GitHub Actions to summarize team meetings. Leveraged LLMs to ensure concise and informative summaries, improving team productivity and communication.
Publication	First contact with open science and the peer review process: Authored and published a replication paper during my Bachelor's on biomarkers for depression. Kriegmair et al. 2023

Skills & Interests

Languages	German (native), English (fluent, two years abroad: one year boarding school in the UK, one year work & travel in Australia)
Research Interests	Applications of LLMs in Psychology and Cognitive Science, Meta-science, Philosophy of Science, Behavioral Science

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