Valentin Kriegmair
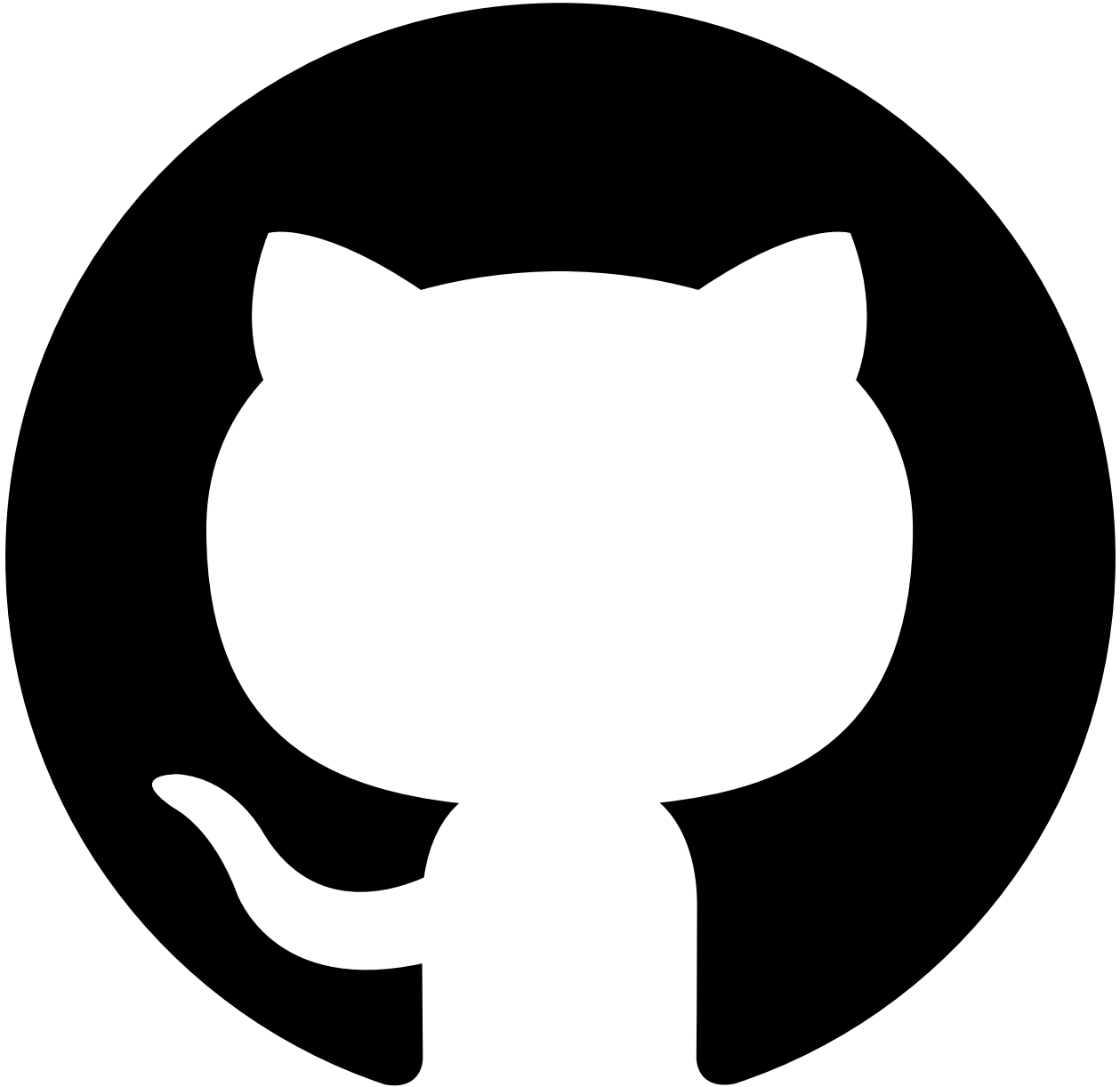
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GitHub |

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

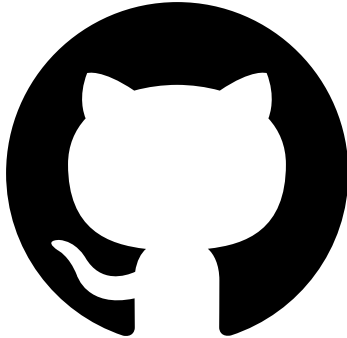| 02/2022 – 08/2022 | Student Research Assistant, Chair of Neuropsychology, LMU Munich - Worked on MRI and CT data processing using MATLAB (Statistical Parametric Mapping SPM12). Assisted in data collection and processing for studies on neuropsychological processes. |
07/03/2022 – 18/04/2022	Research 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. |

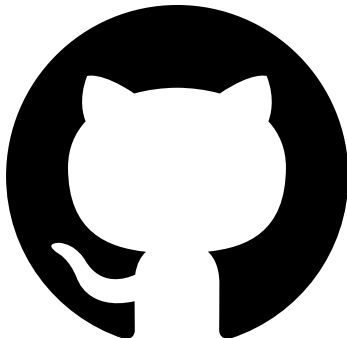| **Version Control and Collaboration** | Proficient in Git and familiar with continuous integration practices and Docker. Worked on collaborative projects using version control tools to manage repositories and streamline and dockerize workflows. |

Projects
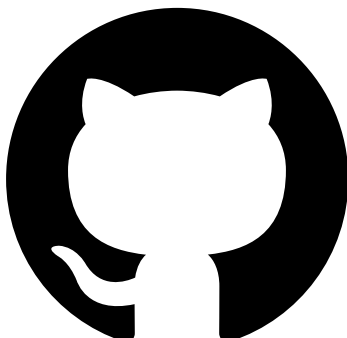
| [**AdversarialSimulation**](#) | Master's thesis (in progress). Developed and evaluated a framework for adversarial collaboration in simulation studies to improve generalizability and rigor in Monte Carlo simulations: Comparing structural after measurement to standard SEM estimation. |

| [**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

References

Dr. Aaron Peikert Principal Investigator, Max Planck Institute for Human Development, Berlin. Contact: peikert@mpib-berlin.mpg.de

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