

DR. LENNART WITTKUHN

Research Data Scientist with a background in Cognitive Neuroscience & Psychology

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📍 Hamburg, Germany

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ABOUT ME



Data Science & Data Engineering

5+ years experience in analysis, management & visualization of complex data, advanced statistics, computational modeling



DevOps & Computational Infrastructure

Proficient in version control, continuous integration & deployment (CI/CD), containerization, high-performance computing



Cognitive Neuroscience & Psychology

Comprehensive understanding of human brain, behavior & cognition, incl. decision-making, learning, memory processes



Machine Learning & Artificial Intelligence

Expertise in applying machine learning to brain imaging data, with foundations in neural networks & reinforcement learning



Research & Project Management

High-impact publications in top-tier scientific journals with 100+ citations, project management, funding acquisition



Presentations & Teaching

20+ presentations, talks & workshops with 1000+ attendees at international conferences & renowned research institutions

EXPERIENCE

Postdoctoral Research Scientist & Lab Manager

University of Hamburg, Institute of Psychology

Max Planck Institute for Human Development, Berlin

📅 01/2022 – present

📍 Hamburg & Berlin, Germany

- **Research:** Multivariate pattern analysis of brain imaging data, computational modeling & analysis of human behavior & cognition to investigate fast memory reactivation in humans
- **Skills:** Pattern classification, machine learning & data analysis in Python (e.g., scikit-learn, pandas, numpy), computational modeling, advanced statistics & data visualization in R, version-controlled code & data management using Git & DataLad, high-performance computing (HPC), Docker, CI/CD on GitHub & GitLab
- **Teaching:** Full-semester course on “Version control of code and data using Git” for 30+ MSc & PhD Psychology students
- **Lab Management:** Project Administration, Funding Acquisition, Supervision of Research Assistants, Project Documentation

Doctoral Researcher

Max Planck UCL Centre for Computational Psychiatry and Ageing Research, Max Planck Institute for Human Development

📅 10/2017 – 12/2021

📍 Berlin, Germany

Dissertation: “Investigating neural replay of task representations in the human brain using fMRI”

Previously: Research Assistant (Technical University Dresden), Research Intern (Concordia University Montreal & University College London), Clinical Intern (Charité University Hospital Berlin)

SKILLS

Languages

🔗 Python, R, Bash, MATLAB

📦 e.g., scikit-learn, pandas, numpy

🔗 e.g., data.table, tidyverse, ggplot2

🇩🇪 German (native), English (C1/C2)

Tools & Software

🔗 Git, GitHub, GitLab, DataLad, git-annex

🔗 GitHub Actions, GitLab CI, GNU Make

📦 Docker, Apptainer, Singularity

📦 HPC (Slurm, Torque)

📦 Amazon S3, Seafile, Nextcloud

🔗 Jupyter Notebook, Quarto, RMarkdown

🖋️ MS Office, Markdown, \LaTeX

EDUCATION

Ph.D. Cognitive Neuroscience

Max Planck UCL Centre for Computational Psychiatry and Ageing Research, Berlin & Free University of Berlin, Germany

📅 10/2017 – 12/2021

🎓 Grade: summa cum laude

M.Sc. Cognitive Neuroscience

Technical University Dresden, Germany

📅 10/2015 – 09/2017

🎓 Grade: 1.2 (very good)

B.Sc. Psychology

Technical University Dresden, Germany

📅 10/2012 – 09/2015

🎓 Grade: 1.3 (very good)

FELLOWSHIPS

Digital & Data Literacy Teaching Fellow

DDLitLab program, University of Hamburg

📅 04/2023 – present

🎓 50,000 € funding

Member of research data management & open science working group

MPI for Human Development, Berlin

📅 10/2022 – present

Reproducible Neuroimaging Fellow

ReproNim & INCF Training Fellowship

📅 2020 – 2021