

# DR. LENNART WITTKUHN

Research Data Scientist with a background in Cognitive Neuroscience

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Innrwttkhn

lennart-wittkuhn

## 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
-  **Speaking & Teaching**  
20+ presentations, talks & workshops with 1000+ attendees at international conferences & renowned research institutions

## EXPERIENCE

### Postdoctoral Research Scientist

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 and DataLad” for MSc 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

### Data Literacy Teaching Fellow

DDLitLab, 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