DR. LENNART DE VRIES

Senior Data Scientist with a background in Computational Cognitive Neuroscience

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ABOUT ME

Data Science & Data Engineering
7+ years of 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

Machine Learning & Artificial Intelligence
Expertise in applying machine learning to brain imaging data, foundations in neural networks, reinforcement learning & NLP

Cognitive Neuroscience & Psychology
Comprehensive understanding of human brain, behavior & cognition, including decision-making, learning & memory processes

Project Management & Leadership
High-impact publications in top-tier scientific journals with 100+ citations, project management, funding acquisition & mentoring

Presentations & Teaching
20+ presentations, talks & workshops with 1000+ attendees at international conferences, research & public sector institutions

EXPERIENCE

Senior Specialist for Data & AI in the Public Sector
PD – Berater der Öffentlichen Hand GmbH

📅 04/2025 – present   📍 Hamburg, Germany

- **Projects:** Technical Lead for documentations of public-sector LLM-based assistants; data analysis and engineering of large-scale public service data; AI literacy training (e.g., ML methods, AI ethics)
- **Skills:** Data analysis & visualization in Python, management of large-scale public administration data in SQL, data access via API queries, version control with Git, CI/CD and project management on GitLab, Docker, technical documentation

Postdoctoral Research Data Scientist & Lab Manager
University of Hamburg, Institute of Psychology
Max Planck Institute for Human Development, Berlin

📅 01/2022 – 03/2025   📍 Hamburg & Berlin, Germany

- **Research:** Multivariate pattern analysis of brain imaging data, computational modeling & analysis of human behavior & cognition to investigate fast memory reactivation ("replay") in humans
- **Skills:** Machine learning & data analysis in Python, computational modeling, advanced statistics & data visualization in R, code & data management using Git & DataLad, high-performance computing (HPC), Docker, CI/CD & project management on GitHub & GitLab
- **Teaching:** Award-winning 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, Technical Documentation

SKILLS

Languages

</> **Python, R, Bash (Unix Shell), MATLAB**
🐍 e.g., **scikit-learn, pandas, numpy**
Ⓡ e.g., **data.table, tidyverse, ggplot2**

🅰 **German** (native), **English** (C1/C2)

Tools & Software

◆ **Git, GitHub, GitLab, git-annex, DataLad**
GitLab CI/CD, GitHub Actions, GNU Make
🐳 **Docker, Apptainer, Singularity**
HPC (Slurm, Torque)
🗄 **SQL, Amazon S3, Seafile, Nextcloud**
Jupyter, 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 – 03/2025   ♀ **100,000 € funding**

Member of research data management, open science & ethics working groups
MPI for Human Development, Berlin

📅 10/2022 – 03/2025

Reproducible Neuroimaging Fellow
ReproNim & INCF Training Fellowship

📅 2020 – 2021