

JULIUS KRICHELDORFF

As a Neuroscientist with five years of experience in data analysis, I am transitioning into the field of Data Analytics. With my background in exploring cognitive impairments in the clinic, I developed expertise in data visualization, statistical analysis, and programming with Python and R. I bring a unique perspective to uncovering data-driven insights and am looking for a position where I can apply my skills.



EDUCATION

- Present
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03/2019
- **PhD. Candidate, Psychology**
Carl von Ossietzky University of Oldenburg 📍 Oldenburg, DE
 - Dissertation - Failed flexible cognitive control adjustment in patients with Parkinson's disease
 - Specialized in experimental design, Bayesian statistical modeling, and time-series analysis for EEG data
 - Research Assistant at the department of neurology
- 07/2024
|
05/2024
- **Advanced Training - Data Analyst**
Pantheon-Sorbonne University/ DataScientest.com 📍 Remote
 - Training in data analysis in Python, machine learning, webscraping and Business Intelligence tools
 - Project investigating publically available data on climate change using machine learning analyses
- 08/2018
|
09/2016
- **MSc., Cognitive Neuroscience**
University of Groningen 📍 Groningen, NL
 - Thesis I - Applied ridge regression to decode perceptual and memory decisions from EEG data
 - Thesis II - Applied hidden semi-Markov models to decode cognitive processing stages from EEG data
- 08/2016
|
09/2012
- **BSc., Psychology**
University of Groningen 📍 Groningen, NL
 - Thesis - Replicated Findings of Time Perception in an ecologically valid setting
- 06/2010
|
08/2003
- **Abitur**
John-Lennon-Gymnasium 📍 Berlin, DE
 - High school exchange at Shichirigahama High School, Kamakura Japan, 04/2007 to 02/2008

CONTACT

✉ julius@kricheldorff.de
📞 [shichik07](https://www.shichik07.com)
🌐 [julius-kricheldorff.com](https://www.julius-kricheldorff.com)
in [juliuskricheldorff](https://www.juliuskricheldorff.com)

PROGRAMMING SKILLS

R

Python

Git

Matlab

SQL

LANGUAGE SKILLS

German

English

Japanese

Made with the R package
[pagedown](https://www.pagedown.com).



WORK EXPERIENCE

01/2024
|
03/2019

Research Assistant

Carl von Ossietzky University of Oldenburg, Department of Neurology

📍 Oldenburg, DE

- Design, recording, analysis, and reporting of behavioural- and EEG experiments
- Started, built and administered the EEG-Lab for the Department of Neurology
- Mentored medical students on best practices for scientific research

03/2016
|
01/2016

Student Assistant

Department of Experimental Psychology, University of Groningen

📍 Groningen, NL

- EEG Data acquisition for the doctoral thesis of Nadine Schlichting

07/2011
|
06/2011

Research Internship

Reference and Translation Center for Cardiac Stem Cell Therapy, University of Rostock

📍 Rostock, DE

- Wetlab work including stem cell isolation, immunofluorescence staining and flow cytometry analysis

06/2011
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11/2010

Nursing Internship

Department of Cardiac Surgery, Rostock University Medical Center

📍 Rostock, DE

- Supporting nursing staff in day to day activities



SKILLS

Analytical

Frequentist Statistics, Bayesian Statistics, Machine Learning (Scikit-learn), Cognitive Modeling, Time-Frequency Analysis

Data Wrangling

tidyverse, pandas

Data Visualization

Power BI, ggplot, matplotlib, seaborn, streamlit, tableau

Satistical Software

JASP, SPSS



SELECTED PUBLICATIONS, POSTERS, AND TALKS

11/2023

● **Impaired Proactive Cognitive Control in Parkinson's disease¹**

Brain Communications

• Journal article authored with Julia Ficke and Karsten Witt

03/2023

● **Behavioural and electrophysiological characteristics of adaptive control in Parkinson's disease**

Congress for Clinical Neuroscience with Advanced Training Academy

• Poster presentation co-authored by Julia Ficke and Karsten Witt

09/2022

● **Examining adaptive control in patients with Parkinson's disease**

International Congress of Movement Disorders and Parkinson's Disease

• Poster presentation co-authored by Julia Ficke and Karsten Witt

07/2022

● **Evidence of Neuroplastic Changes after Transcranial Magnetic, Electric, and Deep Brain Stimulation²**

Brain Sciences

• Journal article authored with Katharina Goeke, Maximilian Kiebs, Florian H Kasten, Christoph S Herrmann, Karsten Witt, and Rene Hurlemann



LINKS

1: <https://doi.org/10.1093/braincomms/fcad327>

2: <https://doi.org/10.3390/brainsci12070929>