

Philipp Reber

Neuroscientist • Engineer • Psychologist

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SUMMARY

Interdisciplinary researcher with 4+ years of experience in neurotech development and neurocognitive experimentation.

SKILLS

- Python, MATLAB
- Quantitative Research
- Instrumentation Engineering
- Experimental Design
- Electrophysiology
- Transcranial Brain Stimulation
- Scientific Writing
- Teaching/Mentoring
- Psychodiagnostics

TOOLS

- SciPy, NumPy, MNE, Seaborn, Matplotlib,
- Pandas, Scikit-learn, XGBoost, UMAP
- Simulink Real-Time
- PsychoPy
- Adobe Illustrator

AWARDS

- 2021 Distinction (M.Sc.)
- 2019 Distinction (B.Sc.)

LANGUAGES

- English (fluent)
- German (native)
- Spanish (conversational)

SELECTED EXPERIENCE

Charité Universitätsmedizin Berlin

Berlin, GER

Europe's first-ranked research hospital (neuroscience, neurology)

Research Associate

2021 – Present

- Successfully developed an adaptive electric brain stimulation system for phase-tuned targeting of physiological rhythms
- Designed, conducted, built research instrumentation for, and co-authored 4 empirical studies published or currently in review
- Recorded and analyzed electrophysiology from 100+ patients and applied machine learning to integrate pathophysiological features with blood work and psychological symptoms

Research Assistant

2020 – 2021

- Collected, analyzed and visualized electrophysiological and behavioral data of 100+ study participants
- Delivered 50+ transcranial magnetic brain stimulation treatments for depressive disorders and carried out psychodiagnostics

Maastricht University

Maastricht, NL

Research Assistant

2019 – 2020

- Implemented a mobile intervention for 120+ study participants which reduced craving and intake of unhealthy food over time
- Carried out recruitment, data management and quality control

Teaching Assistant

2019 – 2020

- Led 80+ seminars on neuroscience, statistics, research design and psychology
- Built effective working groups with a total of 140+ students

EDUCATION

M.Sc. Neuroscience Maastricht University, NL 2021

B.Sc. Psychology Maastricht University, NL 2019

B.Eng. Civil Engineering Berlin School of Economics/Law, GER 2013

ADDITIONAL EXPERIENCE

Maastricht University. Educational Program Committee Member, International Student Ambassador, Student Council, 2018-2020

Ultimate Connection Institute. Research Analyst, 2017-2020

Mercedes-Benz Customer Assistance Center Maastricht. Technical Service Representative, 2016-2019

Freelance. Product Promoter, 2013-2016

Stahl+Verbundbau GmbH. Junior Structural Engineer, 2010-2013