



Freelancer with an industrial-academic background in neuroscience and psychology. My work is characterized by efficiency, structure, and transparency. Committed to improving brain and mind function, I communicate proactively and adapt dynamically to collaborative environments.

SKILLS



EEG

Project management

Experiment design

Python

Data acquisition

TMS

R

Data analysis

tDCS / tACS

Data visualization

MATLAB

Scientific writing

Presenting

Funding acquisition

Review

SciComm

Networking

LANGUAGES



German (fluent) English (fluent)
Portuguese (fluent)
French (C1) Spanish (B2)

DR. LAURA HAINKE

✉ mail@dr-laura-hainke.com 🌐 www.dr-laura-hainke.com

FREELANCER IN NEUROTECH & MENTAL HEALTH

RESEARCH: Hands-on support for feasibility and clinical trials, from preparation to evaluation.

Literature review • study design • data preprocessing • data visualization • statistical analysis • scientific writing

SCIENCE-TO-MARKET: Turning complex science into clear value propositions.

Academic-clinical-industrial collaborations • scientific due diligence • events • blog posts • stakeholder materials

EDUCATION: Conveying knowledge to diverse audiences.

University teaching • guest talks • Mental Health First Aid workshops

WORK EXPERIENCE



Doctoral researcher

Technical University of Munich, GER

Nov 2022 –

Feb 2026

- **Feasibility:** Designed and led feasibility studies on non-invasive neuromodulation; collected EEG data from > 130 healthy subjects
- **Clinical research:** Conducted a pilot trial on NIBS in schizophrenia
- **Data science:** Developed data cleaning software for EEG during brain stimulation; preprocessed, analysed, and visualized EEG & behavioural data in MNE Python, MATLAB Fieldtrip, R, and Inkscape
- **Science communication:** Presented project outcomes in international journals & conferences; academic collaborations

Visiting researcher

University of Glasgow, UK

Sep 2024 –

Dec 2024

- **Experiment setup** to assess audiovisual stimulation effects on human memory at millisecond precision
- **Data collection & preprocessing** of a high-density EEG dataset

Research & communications specialist

Mentalab GmbH, GER

Jul 2020 –

Oct 2022

- **Science-to-market:** Acquired and managed international collaborations with academic, clinical, and industry stakeholders; co-wrote successful *Bayern Innovativ* and *Horizon Europe* grants
- **Technical communication:** Represented the company at conferences (e.g., SfN, FENS); performed product demonstrations; designed user-friendly, regulatory-compliant materials
- **Customer success:** Acquired leads; managed user satisfaction; provided technical support
- **Logistics:** Optimized assembly, inventory, and shipments
- **Prototyping:** Tested hardware & software product iterations

AWARDS



Laura Bassi Fellowship
(Nov 2025)

DGHP Best Flash Talk
(Jun 2024)

BMB Best Student Demonstration
(Dec 2021)

LMU Student Research Excellence
(Aug 2019)

German National Foreign
Language Contest – 2nd Place
(2014 | 2015 | 2016)

VOLUNTEERING

Blood donor (2021 – current)

Doctoral speaker (Oct 2024 –
Oct 2025)

Fighting food waste and
poverty at *Münchner Tafel* (Oct
2018 – Aug 2020)

CONTACT & LINKS



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8348-5554](https://orcid.org/0000-0002-8348-5554)



github.com/laura-hainke

Research assistant

LMU Munich, GER | University of Minho, PT

Oct 2017 –
Oct 2021

- **Literature reviews** on dual-tasking & motor function
- **Diagnostics:** Administered and evaluated neuropsychological test batteries; composed forensic test reports
- **Data collection** of human behavioural and motion datasets
- **Analysis** and **visualization** of EEG data; **statistics** in R, MATLAB

EDUCATION



Dr. rer. nat. in Cognitive Neuroscience

Technical University of Munich, Germany

Nov 2022 –
Mar 2026

Thesis: “Advancing applications of non-invasive gamma brain stimulation” (magna cum laude)

M. Sc. in Clinical Psychology & Cognitive Neuroscience

LMU Munich, Germany

Oct 2020 –
Sep 2022

Thesis: “Visual Periodic Stimulation to Entrain Gamma Activity in Wakefulness and Sleep: A Mobile EEG Setup” (grade: 1,09)

B. Sc. in Psychology

LMU Munich, Germany

Oct 2016 –
Sep 2020

Thesis: “Insights into Bilingual Executive Functioning: A Multifactorial EEG Approach” (grade: 1,31)

SELECTED SCIENTIFIC OUTPUTS



ARTICLES

Reis C, **Hainke L**, Headley G, Navarro S, Zanto TP, Certain R (2026) in *The Journal of Prevention of Alzheimer's Disease*.

EEG • Alzheimer's disease • audiovisual stimulation • gamma oscillations • memory

Hainke L*, Neumaier V*, Marcantoni E, Wang D, Capstick K, Spitschan M, Dowsett J, Hanslmayr S (2026), preprint in *bioRxiv*.

HD-EEG • audiovisual stimulation • gamma oscillations • associative memory

Hainke L, Spitschan M, Priller J, Taylor P & Dowsett J (2025) in *Biomedical physics & engineering express*.

EEG • TES • artifact removal • visual stimulation • gamma oscillations

Hainke L, Dowsett J, Spitschan M & Priller J (2025) in *Sleep*.

EEG • PSG • sleep • visual stimulation • gamma oscillations

Försterling M*, **Hainke L***, Redkina A* & Sauseng P (2023) in *Journal of Psychophysiology*.

EEG • multilingualism • cognitive function

CONFERENCE PRESENTATIONS

FENS (FR, 2022) • PUG (GER, 2023) • ECBS (PT, 2024) • DGHP (GER, 2024) • BACN (UK, 2025) • ICON (PT, 2025)