



# DR. LAURA HAINKE

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

*Freelancer with an industrial-academic background in Cognitive Neuroscience, providing scientific services in Neurotech and Mental Health. 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.*

## Freelancer in Neurotech & Mental Health

- RESEARCH SERVICES: Hands-on support for clinical or feasibility trials, from preparation to evaluation. E.g.: experiment design; preprocessing, visualization, and statistical analysis of neurophysiological & behavioural data; scientific writing
- SCIENCE-TO-MARKET COMMUNICATION: Turning complex science into clear value propositions. E.g.: conference representation; product demonstrations; webinar hosting
- EDUCATION: Conveying knowledge to diverse audiences. E.g.: university teaching; guest talks; Mental Health First Aid workshops

## Work experience

### Doctoral researcher

Nov 2022 -

### Technical University of Munich, GER

Feb 2026

- STUDY LEAD: Designed and led experiments on non-invasive neuromodulation; collected EEG / PSG data from > 130 participants
- 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

👤 Prof. Josef Priller; Prof. Manuel Spitschan; Dr. James Dowsett

### Visiting researcher

Sep 2024 -

### University of Glasgow, UK

Dec 2024

- Set up an experiment to assess audiovisual stimulation effects on memory, ensuring millisecond precision of the multimodal setup
- Collected and preprocessed a full high-density EEG dataset

👤 Prof. Simon Hanslmayr

### Research & communications specialist

Jul 2020 -

### Mentalab GmbH, GER

Oct 2022

- RESEARCH MANAGEMENT: Acquired and managed international collaborations; 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 materials
- CUSTOMER SUCCESS: Acquired leads; managed user satisfaction; provided technical support
- LOGISTICS: Optimized assembly, inventory, and shipments
- QUALITY CONTROL: Tested hardware & software iterations of the mobile EEG product

👤 Dr. Sebastian Herberger

## Skills

- EEG
- Project management
- Experiment design
- Python
- Data acquisition
- TMS
- R
- Data analysis
- tDCS / tACS
- Data visualization
- MATLAB
- Scientific writing
- Presenting
- Funding acquisition
- UX
- Client care
- Product testing

## Languages

German (fluent) English (fluent)

Portuguese (fluent)

French (C1) Spanish (B2)

## 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 – 2<sup>nd</sup> 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



Munich, Germany



mail@dr-laura-hainke.com



linkedin.com/in/  
laura-hainke



orcid.org/0000-0002-  
8348-5554



github.com/laura-hainke

## Research assistant positions

LMU Munich, GER | University of Minho, PT

Oct 2017 –  
Oct 2021

- Administered and evaluated neuropsychological diagnostic test batteries; composed diagnostic and forensic test reports
- Collected human behavioural and motion data
- Programmed neuropsychological experiments and EEG time-frequency analyses in MATLAB
- Analysed and visualized statistical results in R

Prof. Thomas Schenk; Prof. Adriana Sampaio; Dr. Diego Pinal

## 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)

Prof. Josef Priller; Prof. Manuel Spitschan

**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)

Dr. James Dowsett; Dr. Paul Taylor

**B. Sc. in Psychology**  
**LMU Munich, Germany**

Oct 2016 –  
Sep 2020

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

Prof. Paul Sauseng

## Selected scientific outputs



### Articles

Hainke et al. (2025).  
*Biomedical Physics &  
Engineering Express*

Hainke et al. (2025).  
*SLEEP*

Biller, ... Hainke, et al.  
*(2024). Journal of  
sleep research*

Försterling\*, Hainke\*,  
et al. (2022). *Journal  
of Psychophysiology*

### Posters

Hainke et al. (2025)  
*Munich Brain Day  
2025, Germany*

Hainke et al. (2024)  
*ECBS 2024, Lisbon,  
Portugal*

Hainke et al., (2023)  
*PuG 2023, Tübingen,  
Germany*

Hainke et al. (2022)  
*FENS Forum 2022,  
Paris, France*

### Talks

Hainke (2026)  
*Platoscience  
webinar series*

Hainke (2025) *ICON  
2025, Porto, Portugal*

Hainke (2025) *BACN  
2025, Edinburgh, UK*

Hainke (2024) *DGHP  
2024, Göttingen,  
Germany*