



Laura Hainke

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WORK EXPERIENCE

10/2022 – CURRENT Munich, Germany

PHD CANDIDATE TECHNICAL UNIVERSITY OF MUNICH

Dissertation topic: Non-invasive modulation of neuronal gamma activity in human sleep and wakefulness, using sensory and electrical stimulation

10/2022 – CURRENT Munich, Germany

UNIVERSITY RESEARCH ASSISTANT LUDWIG-MAXIMILIANS UNIVERSITY OF MUNICH

- Study design, piloting
- EEG data collection
- EEG data analysis

09/2020 – 09/2022 Munich, Germany

RESEARCH & COMMUNICATION SPECIALIST MENTALAB GMBH

- Communication with leads and users
- Live demonstrations of the mobile EEG system *Explore*
- Development of marketing & sales materials
- Inventory, shipments, assembly
- Company representation at conferences & workshops
- Management of collaborations and grant applications
- Support of scientific studies with *Explore*

07/2021 – 09/2021 Braga, Portugal

INTERNSHIP: EEG DATA ANALYSIS NEUROPSYCHOPHYSIOLOGY LAB, UNIVERSITY OF MINHO

- Development of an automated pipeline to pre-process EEG data for time-frequency analyses in Matlab
- Contribution to a manuscript on cognitive function in Williams Syndrome
- Participation in daily lab activities, assistance of supervisor Dr. Diego Pinal

07/2020 – 08/2020 Munich, Germany

INTERNSHIP: PRODUCT TESTING & CUSTOMER DEVELOPMENT MENTALAB GMBH

- Testing of mobile biosignal system *Explore*
- Development of the user manual
- Exchange with product testers and potential customers
- Preparation of product visuals and instruction materials

02/2020 – 03/2020 Munich, Germany

INTERNSHIP: NEUROPSYCHOLOGICAL DIAGNOSTICS CLINICAL PSYCHOLOGY AND PSYCHOPHYSIOLOGY, LMU CLINIC

- Administration, evaluation and interpretation of neuropsychological diagnostic test batteries
- Writing of psychological test reports
- Protocols of group therapy sessions

10/2019 – 01/2020 Munich, Germany

INTERNSHIP: FORENSIC PSYCHIATRY FORENSIC PSYCHIATRY, LMU CLINIC

- Validation of a prognostics instrument (V-RAG) based on psychiatric reports
- Writing forensic test reports (subject records, personal statements, behavioural observation, test results)
- Administration, evaluation and interpretation of (neuro-)psychological test batteries

10/2019 – 05/2020 Munich, Germany

SERVICE EMPLOYEE ORGASPORT GMBH

- Reception desk and bistro at the climbing and bouldering gym of Freimann, Munich

10/2017 – 01/2020 Munich, Germany

STUDENT RESEARCH ASSISTANT CLINICAL NEUROPSYCHOLOGY, LMU

- Literature research
- Programming experiments in Matlab
- Data collection (behavioural and motion sensors)
- Data analysis and presentation in R

EDUCATION AND TRAINING

10/2020 – 09/2022 Munich, Germany

CLINICAL PSYCHOLOGY & COGNITIVE NEUROSCIENCE (M.SC.) LMU Munich

Final grade 1,09 | **Thesis** Visual Periodic Stimulation to Entrain Gamma Activity in Wakefulness and Sleep: A Mobile EEG Setup

10/2016 – 07/2020 Munich, Germany

PSYCHOLOGY (B.SC.) LMU Munich

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

09/2004 – 05/2016 Porto, Portugal

HIGH SCHOOL DIPLOMA (ABITUR) German School of Oporto

Final grade 1,0

LANGUAGE SKILLS

Mother tongue(s): **PORTUGUESE** | **GERMAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	C1	C1	C1	C1	C1
SPANISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

DIGITAL SKILLS

R (intermediate level) | MATLAB (intermediate level) | Jira, Confluence, Trello | Python (intermediate level)

PUBLICATIONS

Articles

Försterling, M.*, Hainke, L.*, Redkina, A.*, & Sauseng, P. (2022). Influence of Bilingualism on Behavioral and Electrophysiological Parameters of Cognitive Control. *Journal of Psychophysiology*.

*equal contributions

Billar, A. M., Fatima, N., Hamberger, C., **Hainke, L.**, Plankl, V., Nadeem, A., ... & Spitschan, M. (2024). The Ecology of Human Sleep (EcoSleep) Cohort Study: Protocol for a longitudinal repeated measurement burst design study to assess the relationship between sleep determinants and outcomes under real-world conditions across time of year. *Journal of sleep research*, e14225.

Posters

L. Hainke, J. Dowsett, P. Taylor and S. Herberger (2022). Studying Gamma oscillations and consciousness during sleep using SSVEPs. *Presented at FENS Forum 2022*

L. Hainke, J. Dowsett, P. Taylor, M. Spitschan, and J. Priller (2023). Gamma-range Visual Stimulation During Sleep. *Presented at PuG 2023*

L. Hainke, M. Spitschan, J. Priller, P. Taylor, and J. Dowsett (2024). Gamma-Band Multimodal Non-Invasive Brain Stimulation. *Presented at ECBS 2024*

HONOURS AND AWARDS

29/06/2024

DGHP 2024 Best Flash Talk Award – Deutsche Gesellschaft für Hirnstimulation in der Psychiatrie

Award for best 10-minute flash talk on combined visual and electrical brain stimulation with concurrent EEG measurement, at the conference DGHP 2024 conference ("Deutsche Gesellschaft für Hirnstimulation in der Psychiatrie"). Prize: 500€

12/2021

BMB'2021 Best Student Demonstration Award – Brain, Mind and Body Conference

Award for best student demonstration at the "Cognitive Neuroengineering for Health and Wellness" symposium of the virtual IEEE 2021 Brain, Mind and Body Conference. Presentation and live demonstration of the Mentalab *Explore* mobile ExG technology. Prize: 500\$.

08/2019

LMU Award: Excellent Student Research Project – Ludwig-Maximilians-University Munich

"LMU Forschungspreis für exzellente Studierende". Student award attributed to exceptional final year research projects, max. 1 per Faculty. Awarded for my Bachelor thesis project *Insights into Bilingual Executive Functioning: A Multifactorial EEG Approach*. Prize: 1000€.

05/2016

High School Exceptional Performance: "Abitur" Exams || German Language – German School of Oporto

High school diploma award for best grade point average of the year (1,0).
High school diploma award for best performance in the German Language "Abitur" course.

2016

BWFS 2014, 2015, 2016 || English Language Award – German Ministry for Education and Research

2nd place in the foreign language contest "Bundeswettbewerb Fremdsprachen", at German national high school level, for 3 consecutive years (2014, 2015, 2016). Total prize: 1800€.

Special award in the 2016 "Bundeswettbewerb Fremdsprachen" contest for outstanding performance in English Language examinations. Prize: 3-week language course in New York, USA ("Embassy English", 03.2017).

VOLUNTEERING WORK

10/2018 – 08/2020

Volunteering at "Münchner Tafel"

Active member of the "Münchner Tafel", weekly handing out groceries to people in need while countering food waste.

10/2017 – 08/2019

P2P-Mentoring, LMU

Mentoring newly enrolled students within the scope of the P2P initiative at the LMU Munich.

2018 – 2019

Supporting University Events

Contributing to event organization at the Psychology Faculty, e.g., "Psychologie in Beruf und Praxis" Congress (09.11.19), "Young Researchers" Conference (23.11.19).