Maximilian Emil Herrmann



Cognitive Science • Software & AI • Leadership

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Master's student in Cognitive Science (Neuroscience & AI, since 10/2026). I build and run my own software, including **Handzeichen** (handzeichen.com), a live polling platform for meetings, workshops and classrooms, and I am currently building the website of ifb GmbH in Hamburg. I lead the Lower Saxony local group of KI-macht-Schule and have worked as a university tutor. I bring leadership experience from two years in the German Navy and as a skipper, instructor and watch leader at sea.

SKILLS

Software & Web	JavaScript/TypeScript, Node.js, HTML/CSS, Python, C++; web and mobile apps, APIs, own server & deployment, Git, Docker
AI & Data	LLM applications, reinforcement learning, neural networks (TensorFlow), Pandas, Scikit-Learn, MATLAB (fMRI), R (basics)
Methods	Scrum, Jira; workshop design and teaching; market and business planning
Languages	German (native), English (fluent, full professional proficiency), Italian (B1)
Interests	Piano, sailing, strength training, running, blog on neuroscience and AI

WORK EXPERIENCE & PROJECTS

Handzeichen: live polling platform (own product) · handzeichen.com **2026**

Self-built and self-hosted platform for live polls, quizzes and word clouds in meetings, workshops and classrooms (Node.js, real-time, web and mobile app, AI-assisted presentation generation).

Web Development · ifb GmbH, engineering office for building construction, Hamburg **current**

Mini-job, 7 hours per week. Redesign and implementation of the company website: projects, services, office, blog, careers and contact.

Leader, Lower Saxony local group · KI-Macht-Schule gGmbH **since 06/2025**

- Lead the Lower Saxony local group, coordinating, designing and running AI workshops at schools (architectures, algorithms, ethics, bias)
- Training for teachers
- Interactive web tools (incl. reinforcement learning agent), hosted on my own server and used in school lessons

Tutor, course "Motor Systems" · University of Osnabrück, Neuroscience **04/2026 – 07/2026**

Led weekly seminars, explained course content and prepared students for the exam.

Maritime radio training & online course platform · funk.maximilianherrmann.com **freelance**

Freelance instructor in maritime radio courses (SRC/UBI); developed an online learning platform for them: modules, interactive quizzes, exam simulation and printable handouts.

ACADEMIC BACKGROUND

M.Sc. Cognitive Science · University of Osnabrück **since 10/2026**

Specialisation in neuroscience and AI.

B.Sc. Cognitive Science · University of Osnabrück **10/2022 – 2026**

Focus on neuroscience and AI. Bachelor thesis at CIMeC on the "Where/What" pathway from the auditory cortex to the prefrontal cortex (12/2025 – 03/2026).

- **Paper on bachelor thesis** (publication in preparation): Adaptation of the research findings on the "Where/What" pathway of the auditory cortex for submission as a scientific publication.

Erasmus semester · University of Trento **02/2025 – 08/2025**

CIMeC, 36 ECTS: fMRI analysis, brain connectivity, neurobiology.

B.Sc. Industrial Engineering · Karlsruhe Institute of Technology **09/2020 – 07/2021**

Higher mathematics and computer science; switched to Cognitive Science for a stronger focus on neuroscience and AI.

Bilingual high school diploma (Abitur) · Gymnasium Hochrad, Hamburg **09/2015 – 07/2017**

Preceded by a year abroad at Kerikeri High School, New Zealand (2014/15).

LEADERSHIP & NAUTICAL EXPERIENCE

Navigation Guest, German Navy **05/2018 – 05/2020**

Bridge and navigation duty and watch leadership on the frigate Mecklenburg-Vorpommern (ECDIS); NATO-USTG deployment in the Aegean (2020); FOST certification in Plymouth.

Youth Sailor & Skipper on the high seas · Segelkameradschaft "Das Wappen von Bremen" **2026**

Responsibility for boat and crew on long-distance passages, incl. Cowes Week 2026 and Porto–Alicante (800 nm).

Sailing Instructor & Skipper · Hanseatische Yachtschule Glücksburg (DHH) **since 07/2020**

Instructor for SKS and official licenses; yacht skippering. Own licenses: SHS (offshore), SSS, SKS, SRC; approx. 45,000 nm privately.

Circumnavigation, Oyster World Rally **08/2021 – 07/2022**

Watch leader on the Oyster 575, from Hamburg to Fiji (approx. 12,000 nm).

FURTHER INTERNSHIPS & ACTIVITIES

Internship, Backend Development · KiteIT **06/2024 – 07/2024**

Docker, Swagger, Jira, Scrum; insights into production processes at Roche.

Internship · feelspace GmbH **03/2024**

Statistical analysis, patent research, assembly of the feelspace belt.

Internship · ifb GmbH, engineering office for building construction, Hamburg **06/2020 – 08/2020**

Tutoring (maths, German) · ELEGANZ Bildungsplattform e. V. **11/2022 – 11/2023**

Youth and integration association, 3 hours per week across all grade levels.

Blog & Websites · maximilianherrmann.com **since 2022**

Blog on neuroscience, AI and ethics: since 2022 on Medium, since 2025 on my own website; all pages built by myself and hosted on my own server.