

FLORIAN FRIEDRICH

PhD Student Cognitive Science

CONTACT INFORMATION

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OTHER

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RESEARCH EXPERIENCE

2024 – present **PhD student/Researcher** [Realistic Depictions Lab/Leibniz-Institut für Wissensmedien](#)
Currently in the process of narrowing down my research topic.

2017 – 2024 **Student research Assistant (HiWi)** [Experimental Cognitive Science/Eberhard Karls Universität Tübingen](#)
Main responsibilities included conducting behavioural and EEG experiments as well as pre-processing, analysing, visualising and reporting of resulting data using R and MATLAB. I additionally contributed in writing minor and major parts of manuscripts and filled a supporting role in seminars (e.g., creating tutorials, providing in-person assistance). Project topics included:
• *Ultra-rapid visual processing of natural scenes*. The main focus of this project is the replication and critical examination of a classic experiment (data collection, pre-processing, analysis and visualization; manuscript writing).
• *Unconscious processing of numbers and line stimuli using a masked priming paradigm*. The main focus here was a closer critical examination of conventional measures, statistical analyses and arguments (data collection, pre-processing, visualization and analysis; tutorials for seminars).

EDUCATION

2024 **Master of Science (M.Sc.) Kognitionswissenschaft** [Eberhard Karls Universität Tübingen](#)
Final thesis topic: "*The Doorway Effect For An Object Layout Memory Task: An Examination Using Immersive Virtual Reality*" (Supervisor: Dr. Gregor Hardieß, Co-Supervisor: Dr. Christian Scharinger).
For this thesis, I used OSF in an effort to get used to open science tools: <https://osf.io/kz8a6/>
Electives focused on human natural cognition, e.g., visual and spatial cognition, working memory, analysis of EEG data, usability of virtual reality (VR) environments.
Final grade: 1.51

2020 **Bachelor of Science (B.Sc.) Kognitionswissenschaft** [Eberhard Karls Universität Tübingen](#)
Final thesis topic: "*Effects of Visually Entrained Alpha-Frequencies and Individual Alpha-Frequencies on Near-Threshold Stimulus Discrimination Task Performance*" (Supervisor: Prof. Dr. Volker Franz, Co-Supervisor: Iris Schnepf). Available on my website: https://floxixt.github.io/files/Friedrich_2019.pdf
Final grade: 1.96

2015 **German higher education entrance qualification (Abitur)** [Christian Weise Gymnasium Zittau](#)
Leistungskurse (Advanced Courses, 5h/week): Mathematics, Physics.
Final grade: 1.3

PUBLICATIONS

2022 **Journal Article**
Schnepf, I. A., **Friedrich, F.**, Hepting, C., Meyen, S., & Franz, V. H. (2022). Neural mechanisms of response priming do not support veridical unconscious processing. *Consciousness and Cognition*, 102, 103348. <https://doi.org/10.1016/j.concog.2022.103348>

CONFERENCES

2021 **Conference** [Poster presented by Iris Zerweck](#)
Zerweck, I. A., Meyen, S., **Friedrich, F.**, Hepting, C., Franz, V. H. (2021). Unconscious priming revisited: Is there evidence for superior unconscious processing with EEG? (Poster presented at the "43rd European Conference on Visual Perception" (ECVP), 22.8.-27.8.2021, Virtual)

2021 **Conference** [Poster presented by Iris Zerweck](#)
Zerweck, I. A., Meyen, S., **Friedrich, F.**, Hepting, C., Franz, V. H. (2021). Effects of visually masked numbers and lines on brain activity. *Journal of Vision*, 21(9), 2293. <https://doi.org/10.1167/jov.21.9.2293>

- 2021 **Conference** **Talk presented by Iris Zerweck**
 Zerweck, I. A., Meyen, S., **Friedrich, F.**, Franz, V. H. (2021). Unconscious priming. Should scientists use continuous direct measures? (Talk session accepted for the "Tagung experimentell arbeitender Psychologen" (TeaP@home), 14.3.-16.3.2021, Virtual)
- 2018 **Conference** **Poster presented by Iris Zerweck**
 Zerweck, I. A., Meyen, S., Amado, C., **Friedrich, F.**, Franz, V. H. (2018). Evaluating methods in visual tasks: Confidence ratings convey more information than binary responses. (Poster presented at the "41st European Conference on Visual Perception" (ECVP), 26.8.-30.8.2018, Triest, Italy)
- 2018 **Conference** **Poster presented by Iris Zerweck**
 Zerweck, I. A., Meyen, S., **Friedrich, F.**, Grethen, K., Franz, V. H. (2018). Unconscious processing of numbers: How important is the response format? (Poster presented at the "Tagung experimentell arbeitender Psychologen" (TeaP), 11.3.-14.3.2018, Marburg, Germany)

RELEVANT ADDITIONAL SKILLS

Languages

German (native), English (fluent).

Software

Statistical analysis and visualization of behavioural and EEG data in **R** and **MATLAB** ([EEGLab](#), [ERPLab](#)).

Intermediate knowledge of the open source game engine [Godot](#) (using VR) and its programming language **GScript**.

Basic knowledge of **Python** ([mne](#)) and **Unity** (using VR), as well as 3D modeling, animation and video editing in [Blender](#).