


CURRICULUM VITAE

Julius Welzel
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EDUCATION

- 06/2019-today **PhD in Neuroscience** (Kiel University, Kiel)
Topic: Oscillation in Movement Disorders (supervised by Julian Keil & Walter Maetzler)
- 10/2016-05/2019 **M.Sc. Neurocognitive Psychology** (Carl von Ossietzky Universität, Oldenburg)
Thesis: The Effect of Age on Event-related Desynchronization in Visuomotor-Task Motor Imagery (supervised by Mareike Daeglau & Stefan Debener)
- 10/2012-10/2016 **B.Sc. Psychology** (Johannes-Gutenberg Universität, Mainz)
Thesis: The Effect of Mindfulness Based Stress Reduction on Life-Quality of Breast Cancer Patients (supervised by Mario Wenzel & Thomas Kubiak)
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WORK EXPERIENCE AND RECENT INTERNSHIPS

- 04/2019-today **Research Assistant** (Department of Neurology, Kiel University, Kiel, Walter Maetzler & Günther Deuschl)
Project: Influence of Online Multimodal Feedback on Tremor
- 08/2017-04/2019 **Research Assistant** (Neuropsychology Lab, University of Oldenburg, Stefan Debener)
Project: Optimising the Context of Motor Imagery Neurofeedback Training
- 10/2017-11/2017 **Intern** (Nuffield Dept. Clinical Neuroscience, University of Oxford, Catharina Zich)
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CONFERENCE CONTRIBUTIONS

- 03/2022 **Effects of multisensory feedback on tremor severity in Essential Tremor** - Poster at Deutsche Gesellschaft für klinische Neurologie Conference 2022, Würzburg, Germany
- 06/2019 **The Effect of Age on Event-related Desynchronization in Visuomotor-Task Motor Imagery** - Poster at Psychologie und Gehirn Conference 2019, Dresden, Germany
- 07/2018 **Individualization of Motor Imagery Rehabilitative BCIs** - Poster at the CuttingEEG Conference 2018, Paris, France
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FUNDING & AWARDS

- 09/2019 **Travel Grant** - Summer School "Biological and Clinical converging pathways in Alzheimer Disease and Parkinson Disease", Brescia, Italy
- 06/2019 **Poster Price** - DGPA, Psychologie & Gehirn 2019, Dresden, Germany
- 11/2018 **Research Grant** - Nowetas Stiftung for Independent Student Research Projects, Oldenburg, Germany
- 10/2018 **Poster Price & Travel Grant** - 3rd German Students Conference, Bochum, Germany
- 06/2017 **Travel Grant** - BCN Summer Symposium, Groningen, Netherlands

TEACHING EXPERIENCE

04/2021-today	Lecturer (Biological Psychology Lab, Kiel University, Julian Keil) psyM1 - Datasience in practice (Material)
10/2020-10/2022	Lecturer (Biological Psychology Lab, Kiel University, Julian Keil) psyB7 - Functional Neuroanatomy
10/2017-07/2018	Tutor (Experimental Psychology Lab, University of Oldenburg, Christoph Herrmann) psy241 - Computational Neuroscience
02/2017-10/2017	Tutor (Applied Neurocognitive Psychology Lab, CvO Oldenburg, Jochem Rieger) psy220 - HCI and BCI in practice

SUPERVISION OF STUDENTS

Master theses	Merle Stuckart, Lena Hamann, Lilli Wienands, Christian Neumann, Denise Frey
Bachelor theses	Lina Vodisch, Verena Nordbrock, Lena Hamann
Medical theses	Alexander Günther, David Wendtland, Maximilian Beckbauer, Christian Ortlieb, Anna Vormehr, Caro Middendorf, Jennifer Kudelka, Levin Lützelshwab, Mareen Birkenbach, Katharin Scholz, Miriam Günthe, Franziska Tauber

PROGRAMMING SKILLS

MatLab	EEGLab, Fieldtrip, Psychtoolbox, Simulink
Python	MNE, Scipy, NumPy, PsychoPy
R	ggplot, lme4
Other	git, LSL, TCP/IP, latex, shell(bash)

REVIEWING ACTIVITIES

Journals	IEEE Transactions on Biomedical Engineering, Sensors, Brain Science, Parkinsonism and Related Disorders, Scientific Reports
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PROFESSIONAL PROJECTS

08/2019-today	Multi-modal PhysioLab <i>Department of Neurology, Kiel, Germany</i> <ul style="list-style-type: none">• Setting up and maintaining a lab for multimodal physiological datastreams based on LSL• Optimising recordings for a multichannel EEG systems• Include VR, Eyetracking, EMG, IMU & MCU compatible sensors in lab architecture
03/2017-04/2019	BCI tools <i>Department of Neuropsychology, Oldenburg, Germany</i> <ul style="list-style-type: none">• Assisting with the setup of Neurofeedback experiments• Online optimization of data stream for brain-computer-interface experiments