

Academic Curriculum Vitae

Dirk Gütlin

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Studies

University of Osnabrück

SEPT 2019 - CURRENT

Master of Science
Cognitive Science

University of Salzburg

SEPT 2016 - JUN 2019

Bachelor of Science
Psychology

University Koblenz-Landau

SEPT 2015 - AUG 2016

Mathematics, Psychology

Research Experience

University of Osnabrück, Institute of Cognitive Science

MAR 2020 - CURRENT

Research Assistant, Neurobiopsychology:
Application and validation of classification models for EyeTracking data recorded in Virtual Reality, EEG-Analysis.
Supervisor(s): Artur Czeszumski, Prof. Peter König.

University of Osnabrück, Institute of Cognitive Science

MAR 2020 - CURRENT

Teaching/Research Assistant, Cognitive Modelling Group:
Teaching assistance for the course 'Experimental Psychology Lab';
Programming interactive online experiments.
Supervisor(s): Prof. Michael Franke.

Google Summer of Code Project with Stipend for Python Software Foundation/ MNE-Python

MAY 2019 - AUG 2019

Google Summer of Code Participation, submitting the project:

Programming Languages

Python
MATLAB
R
C#
JavaScript/HTML (basics)

Interests

Cognitive Neuroscience
Neuroscientific Data Analysis
Machine Learning
Deep Learning
Statistics
Complex Systems
(Neural) Time Series

‘MNE-Python: Improve Time Frequency Analysis in Source Space’ for M/EEG data analysis software MNE-Python.

Supervisor(s): Alexandre Gramfort, Joan Massich, [Jean-Rémi King] (INRIA, Paris).

Centre for Cognitive Neuroscience Salzburg

SEPT 2018 - AUG 2019

Research Assistant, Neurocognition Lab:

Development of research applications, Eye-Tracking measurements.

Supervisor(s): Michael Leitner, Prof. Florian Hutzler.

University of Salzburg, Department of Psychology

MAR 2018 – AUG 2018

Tutor: ‘MATLAB – Advanced Applications’:

Neurophysiological data processing with FieldTrip, experimental Designs with Psychtoolbox.

Supervisor(s): Gianpaolo Demarchi.

Christian-Doppler-Klinik Salzburg

DEC 2017 – SEPT 2018

Intern, Department of Neurology:

Epilepsy monitoring, EEG measurement, automated epileptic spike detection.

Supervisor(s): Yvonne Höller, Aljoscha Thomschewski.

University of Salzburg, Department of Psychology

NOV 2017 – JULY 2018

Intern, Ongoing Brain Oscillations and Behavior Lab:

MEG measurement support, MEG Data Analysis (Time-Frequency Analysis, MVPA, Speech Reconstruction using ANN).

Supervisors: Prof. Nathan Weisz.

Projects

Salzburg Visual Field Trainer

Bachelor Project.

Virtual Reality research application for Visual Restoration Therapy.

Developed in C# with Unity, for Google Cardboard on Android.

Supervisor(s): Michael Leitner, Stefan Hawelka.

fieldtrip2mne

With Thomas Hartmann.

Python Toolbox for importing MATLAB based FieldTrip data structures into MNE-Python. Integrated in MNE-Python release 0.17 as mne/io/fieldtrip.

GitLab Repo: <https://gitlab.com/obob/fieldtrip2mne>

pymatreader

With Thomas Hartmann.

Python Toolbox for uniform translation of MATLAB (.mat) files into Python.

GitLab Repo: <https://gitlab.com/obob/pymatreader>