Academic Curriculum Vitae
Dirk Gütlin

Liebigstraße 58
49074 Osnabrück,
Germany
dguetlin@uos.de
https://digyt.github.io

Studies

University of Osnabrück
SEPT 2019 - CURRENT

Cognitive Science (Master of Science; In progress)

University of Salzburg
SEPT 2016 - JUN 2019

Psychology (Bachelor of Science)

University Koblenz-Landau
SEPT 2015 - AUG 2016

Psychology, Mathematics

Research Experience

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 for establishing language
pragmatics in artificial agents.
Supervisor: Prof. Michael Franke.

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, RSA with EEG data.
Supervisors: Artur Czeszumski, Prof. Peter König.

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:
'MNE-Python: Improve Time Frequency Analysis in Source Space' for M/EEG
data analysis software MNE-Python.
Supervisors: Alexandre Gramfort, Joan Massich, [Jean-Rémi King] (INRIA,
Paris).

Interests

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

Programming Languages

Python
MATLAB
R
C#
JS/HTML/CSS (basics)

Centre for Cognitive Neuroscience Salzburg
SEPT 2018 - AUG 2019

Research Assistant, Neurocognition Lab:
Development of research applications, Eye-Tracking measurements.
Supervisors: 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: Gianpaolo Demarchi.

Christian-Doppler-Klinik Salzburg
DEC 2017 – SEPT 2018

Intern, Department of Neurology:
Epilepsy monitoring, EEG measurement, automated epileptic spike detection.
Supervisors: Yvonne Höller, Aljoscha Thomschewski.

University of Salzburg, Department of Psychology
NOV 2017 – JUL 2018

Intern, Salzburg Brain Dynamics Lab:
MEG measurement support, MEG Data Analysis (Time-Frequency Analysis,
MVPA, Speech Reconstruction using ANN).
Supervisor: Prof. Nathan Weisz.

Projects

neuropynamics
With Lucas Feldmann & Hunaid Hameed.
Collection of Jupyter notebooks and visualization tools for intuitive
introductions into the subject of Neurodynamics.
Github Repo: https://github.com/DiGyt/neuropynamics

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

Publications

Leitner, M. C., Gütlin, D. C., & Hawelka, S. (2020). *Salzburg Visual Field Trainer (SVFT):
A Neuropsychological Virtual Reality Training Device for Cortical Blindness.*
Manuscript in preparation.