CURRICULUM VITAE

EDUCATION

Oct 2014 - Dec PhD. Candidate Graduate School of Systemic Neurosciences,

Luedwig-Maximillians Universitaet

Aug 2012 M.Sc. Neuroscience Graduate Training Centre of Neuroscience,

Eberhard Karls Universitaet Tübingen

May 2010 B.Sc. Psychology Wittenberg University

RESEARCH EXPERIENCE

Nov 2018 - Max Planck Institute of Biochemistry Prof. Dr. Matthias Mann

Programmed high-throughput automated data collection and data analysis pipelines. I also designed and implemented a job-scheduling web application, implementing lean management methods to decrease data collection waiting times for 40 users and trained and mentored several biology and bioinformatics researchers in Python programming methods and open-source collaboration workflows, as well as gave introductory

programming workshops for over 150 researchers.

May 2013 - Ludwig-Maximillians Prof. Dr. Anton Sirota Universitaet

Programmed a 3D graphics engine in Python to build virtual reality system for freely moving rats, supervised students in programming, engineering, and cognitive science projects, organized weekly journal clubs, and ordered new equipment, trained rodents to perform behavioral tasks, and performed surgery on said rodents as part of brain

research.

Aug 2012 - Universitaet Tuebingen Prof. Dr. Christoph Braun

May 2013 Wrote a research grant to study the top-down and bottom-up interactions by

computational modeling information propagation in early sensory pathways as measured by MEG, designed and administrated an institute wiki, organized a student lecture series,

and supervised two students' EEG research projects.

Nov 2011 - Universitaet Tuebingen Prof. Dr. Niels Birbaumer

July 2012 Programmed in Matlab a time-frequency and evoked potential analysis on three years'

worth of MEG data assessing longitudinal changes in stroke patients receiving

physiotherapy.

Oct 2012 - Universitaet Tuebingen Prof. Dr. Cornelius Schwarz

Nov 2012 Trained rats to perform whisking in response to barrel cortex stimulation

 $via chronically-implanted\ electrodes,\ mapping\ stimulation\ sensitivity\ to\ each\ cortical\ layer.$

Nov 2010 - Universitaet Tuebingen Dr. Michael Barnett Cowan

March 2011 Programmed an online EMG classifier in Matlab and Simulink to accurately detect finger

movements within milliseconds for EEG coherence brain-computer interface training.

Dec. 2009 - Wittenberg University Prof. Dr. Josephine Wilson

Aug. 2010 Puilt on NI DAO FEC system programmed online analysis and a

Built an NI-DAQ EEG system, programmed online analysis and data acquisition in Matlab and LabView, and confirmed its functionality in three different experiments. As a senior lab assistant, also worked as an aid for rat neurosurgery and noninvasive electrophysiology (skin conductance, EMG, EKG, and EEG) laboratory course sessions, which is also defined a significant data acquisition of the standard programmed online analysis and data acquisition in Matlabatic programmed online analysis and data acquisition in Matlab and LabView, and confirmed its functionality in three different experiments. As a senior lab assistant, also worked as an aid for rat neurosurgery and noninvasive electrophysiology (skin conductance, EMG, EKG, and EEG) laboratory course sessions, which is also also account to the standard programmed on the second programmed on the second

which included planning and giving demonstrations on each method above.

June-Aug 2008 -June 2009 Duke University

Prof. Dr. Jennifer Groh

Trained Macaque monkeys to perform visual saccade tasks while mapping receptive fields

in superior and inferior colliculus.

Aug 2007 -Dec. 2009 Wittenberg University Prof. Dr. Michael Anes

Conducted three behavioral psychophysics studies on the hemispheric lateralization of face perception. Tasks included programming stimulus sequences in SuperLab, patient recruitment and management, data collection, and conference poster preparation.

Nov 2006 -March 2007 Wittenberg University I

Prof. Dr. Jay Yoder

Measured dessication rates in the bed bug and isolated fungal growth in three species of cockroach. These studies resulted in a publication in a peer-reviewed journal and a poster presentation at an undergraduate research conference.

May 2, 2019