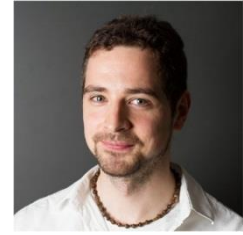


Simon Musall

Date of Birth: 07.04.1985
Nationality: German
Marital Status: Married
OrcID: 0000-0002-9461-1042

35 Irving Place
11771 Oyster Bay
simon.musall@gmail.com



Education

University of Zürich

Doctor of Natural Sciences (Dr. sc. nat.)

16 July 2015

Supervisors: Prof. Dr. Fritjof Helmchen
Prof. Dr. Bruno Weber
Dr. Florent Haiss

Professional Experience

Cold Spring Harbor Laboratory, New York, USA

Prof. Anne Churchland
Postdoctoral fellow

August 2015 – current

Topic: Study large-scale cortical network function during multisensory decision-making.

Institute for Brain Research, Zürich, Switzerland

Prof. Fritjof Helmchen / Prof. Bruno Weber
Doctoral student

December 2010 – July 2015

Topic: Behavioral implications of sensory adaptation. Enhancement of behavioral performance through optogenetic stimulation of sensory neurons.

Istituto italiano di tecnologia, Genova, Italy

Prof. Stefano Panzeri
1 month visiting scientist

October - November 2010

Topic: Advanced data analysis of electrophysiological data from my master thesis.

Max Planck Institute for Biological Cybernetics, Tübingen, Germany

Prof. Nikos Logothetis
Master student

February 2009 – December 2010

Topic: EEG, LFP and spike recordings in awake rhesus monkeys. Pharmacological manipulation of local neural activity patterns.

Max Planck Institute for Biological Cybernetics, Tübingen, Germany

Prof. Heinrich Bülthoff

August 2007 – December 2008

Research Assistant

Topic: Different projects covering spatial orientation and navigation, perceiving of virtual environments and integration of multi-sensory feedback of self-motion.

NMI - Natural and Medical Sciences Institute, Reutlingen, Germany

Prof. Elke Guenther

January - April 2007

Internship

Topic: Different projects covering neuronal regeneration of the CNS in mice and influence of neuronal inhibitors, using patch-clamp techniques and multi-electrode arrays.

Teaching experience

Cold Spring Harbor Laboratory

Rotation student supervision

Mentoring rotation students on individual 3 month projects.

- Chaoqun Yin *October 2018 - current*
- Alberto Corona *April 2017 - July 2017*
- Kristina Grigaityte *April 2016 - July 2016*

ETH Zürich

Master student supervision

Highly involved in project design, experimental work, data analysis and writing for two master students.

- Melek Durmaz: Master thesis *March 2013 - August 2014*
- Colette Steinegger: Master project *November 2012 – May 2013*

University of Zürich

Assistant, EXCITE summer school

September 2014

Assistant, Electrophysiological recording techniques

December 2012 / 2013 / 2014

Assistant, Medical physiology course

April - May 2012 / 2013

Eberhard-Karls-University Tübingen

Assistant, Animal physiology course

September 2005 / 2006

Other scientific activities

University Clinic of Child and Adolescent Psychiatry Zürich

Prof. Renate Drechsler

April - August 2015

Data analysis consultant

Topic: Aided with development and testing of an analysis pipeline for EEG data, collected in a study on neurofeedback in children with learning disability.

Memberships

Swiss Society for Neuroscience

February 2012 - current

Society for Neuroscience

January 2009 - current

Awarded grants

SNSF - Advanced PostDoc.Mobility grant

July 2017

- 18 month funding for postdoctoral work at the Cold Spring Harbor Laboratory.

SNSF - Early PostDoc.Mobility grant

July 2015

- 18 month funding for postdoctoral work at the Cold Spring Harbor Laboratory.

ZNZ travel grant, Neuroscience Center Zürich

November 2014

- Awarded 1000 CHF to attend the Society for Neuroscience meeting in the US.

Publication record

Pre-print articles

Musall S., Kaufman MT., Gluf S., Churchland AK., “Movement-related activity dominates cortex during sensory-guided decision making.” bioArxiv (May 10, 2018).
<https://www.biorxiv.org/content/early/2018/05/10/308288>

Peer-reviewed articles

Musall S., Haiss F., Weber B., vd Behrens W., “Deviant Processing in the Primary Somatosensory Cortex.” *Cerebral Cortex* (September 21, 2014).
<http://cercor.oxfordjournals.org/content/early/2015/11/30/cercor.bhv283>

Musall S., vd Behrens W., Mayrhofer J., Weber B., Helmchen F. and Haiss F., “Tactile frequency discrimination is enhanced by circumventing neocortical adaptation.” *Nature Neuroscience* (September 21, 2014).
<http://www.nature.com/neuro/journal/v17/n11/full/nn.3821.html>

Mayrhofer J., Skreb V., vdBehrens W., **Musall S.**, Weber B. and Haiss F., “Novel Two-Alternative Forced Choice Paradigm for Bilateral Vibrotactile Whisker Frequency Discrimination in Head-Fixed Mice and Rats.” *Journal of Neurophysiology* (January 1, 2013)
<http://jn.physiology.org/content/109/1/273>

Musall S., vPförtl V., Rauch A., Logothetis N. K., and Whittingstall K., “Effects of Neural Synchrony on Surface EEG.” *Cerebral Cortex* (December 12, 2012).
<http://cercor.oxfordjournals.org/content/24/4/1045>

Peer-reviewed abstracts

“Functional assessment of large-scale cortical networks during multisensory decision-making”
Computational and Systems Neuroscience meeting (Cosyne) 2018; Salt Lake City, USA
Accepted abstract for conference poster. *March 2018*

“Neuron-level resolution of activity boundaries using calcium imaging”
Computational and Systems Neuroscience meeting (Cosyne) 2017; Salt Lake City, USA
Accepted abstract for conference poster. *March 2017*