JEFF MOHL

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EDUCATION

Duke University, Durham, NC

Ph.D. in Neurobiology Candidate — 2014-Present

Advisor: Jennifer Groh

Thesis: Neural basis of multisensory integration and segregation

Montana State University, Bozeman, MT

B.S. Mechanical Engineering, Highest Honors — 2009-2014

HONORS AND AWARDS

National Defense Science and Engineering Graduate Fellowship — 2016-2019

Walter Byers Graduate Scholarship Finalist — 2014

USTFCCCA Academic All-American — 2010-2014

Montana University System – Honors Tuition Waiver — 2009-2013

TEACHING

Duke University, Durham, NC

Neurobiology Bootcamp, Session Leader — 2017, 2018

Principles of Neurobiology I, Teaching Assistant — 2017

Duke Biosciences and Engineering Camp, Counselor — 2016

Montana State University, Bozeman, MT

Athletic Department Sponsored Tutor — 2013-2014

Montana State Track and Field Camp, Counselor — 2010-2014

PUBLICATIONS

Mohl, JT; Caruso VC; Tokdar, S; Groh, JM Sensitivity and specificity of a Bayesian single trial analysis for time varying neural signals. *submitted*. Preprint available on biorxiv doi: https://doi.org/10.1101/690958

Caruso, VC; **Mohl, JT**; Glynn C; Lee J; Willett, S; Zaman A; Ebihara, AF, Estrada R; Freiwald, W. A. Tokdar S; Groh, JM. 2018. Single neurons may encode simultaneous stimuli by switching between activity patterns. In press at Nature Communications. Originally posted on biorxiv as Caruso, VC; Mohl, JT; Glynn C; Lee J; Willett, S; Zaman A; Estrada R; Tokdar S; Groh, JM. Evidence for time division multiplexing of multiple simultaneous items in a sensory coding bottleneck. doi: https://doi.org/10.1101/107185.

ABSTRACTS ANDCONFERENCE PRESENTATIONS

Mohl, JT; Tokdar, S; Groh, JM. 2018. Distinct codes as a substrate for causal inference in primate superior colliculus neurons. *Society for Neuroscience; Advances & Perspectives in Auditory Neuroscience*

Jun, NY; **Mohl, JT**; Cohen, M; Groh, JM. 2018. Fluctuating activity (time-division multiplexing) varies across sensory brain regions. *Society for Neuroscience*

Caruso, VC; **Mohl, JT**; Glynn, C; Lee, J; Willett, S; Zaman A; Estrada R; Tokdar S; Groh, JM. 2017. Fluctuating activity and coding of multiple items. *Cognitive and Computational Neuroscience meeting, New York, 2017*

Mohl, JT; Tokdar, S; Groh JM. 2017. A dynamic neural code may underlie multisensory integration and segregation in the primate superior colliculus. *Society for Neuroscience; Advances & Perspectives in Auditory Neuroscience* (selected for poster teaser highlight)

Mohl, J.T; Caruso, V. C.; Glynn, C; Tokdar, S; Groh, JM. 2016. Characterization of a novel analysis method for single trial analysis of fluctuating neural responses. *Society for Neuroscience*

COMMITTEE MEMBERSHIPS

Duke Institute for Brain Science, Student Committee, Professional Development Co-Chair 2019
Neurobiology External Review, Student Committee, Vice President 2018
Gordon G. Hammes Excellence in Teaching Award, Selection Committee 2018

INDUSTRY EXPERIENCE

PrintingForLess.com, Livingston, MT
Software Developer - Intern 2013

The Boeing Company, Everett, WA
Payloads Design Engineer - Intern 2012

MEMBERSHIPS

Society for Neuroscience
Tau Beta Pi – Engineering Honors Society
Pi Tau Sigma – Mechanical Engineering Honors Society
Phi Kappa Phi – General Honors Society