Shanna Coop

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EDUCATION

UNIVERSITY OF ROCHESTER | Rochester, NY

PhD, Brain and Cognitive Sciences
MA, Brain and Cognitive Sciences

Expected 2021 2015-2018

UNIVERSITY OF CALIFORNIA, RIVERSIDE I Riverside, CA

2009-2013

BS, Neuroscience

RESEARCH EXPERIENCE

MITCHELL LAB | University of Rochester

2015- Present

Graduate Student

• Utilized psychophysics, neurophysiology, and anatomy to study the neural mechanisms underlying eye movements and perception in the marmoset.

MILLER LAB | University of California, San Diego

2014-2015

Lab Technician

- Investigated the neural networks underlying social communication in marmosets
- · Managed lab operations and primate colony and mentored undergraduate students
- Assisted in establishing an optogenetic prep in marmosets

STANLEY LAB | University of California, Riverside

2011-2013

Research Assistant

- Designed neuropharmacology experiments that assesses food intake and other behaviors in rats
- Performed special stains, immunohistochemistry, and perfusions for histology

TEACHING EXPERIENCE

BCS/NSC 203 Lab in Neurobiology | University of Rochester

Spring 2016, 2017,2018

Graduate Teaching Assistant

• Introduces the various experimental methods used in neurobiological research: anatomical, behavioral, molecular, and physiological approaches to studying neural organization and function

INVITED TALKS

"Neuronal Mechanisms of Pre-saccadic Attention and Foveal Processing in Middle Temporal Area of the Marmoset" (2020): CVS Retreat, Beaver Hollow, NY.

"Neuronal Mechanisms of Pre-saccadic Attention in Middle Temporal Area of the Marmoset Monkey" (2019): Marmoset Bioscience Symposium, Chicago, IL.

"Psychophysical Measurement of Marmoset Acuity and Myopia" (2016): OSA Fall Vision Meeting, Rochester, NY

PUBLICATIONS

- Nummela, S. U., Coop, S. H., Cloherty, S. L., Boisvert, C. J., Leblanc, M., Mitchell, J. F. (2016).
 Psychophysical Measurement of Marmoset Acuity and Myopia. Developmental Neurobiology, 77(3), 300-313.
- MacDougall, M., Nummela, S. U., **Coop, S**., Disney, A., Mitchell, J. F., & Miller, C. T. (2016). Optogenetic manipulation of neural circuits in awake marmosets. Journal of Neurophysiology, 116(3), 1286-1294.
- Urstadt, K. R., Coop, S. H., Banuelos, B. D., & Stanley, B. G. (2013). Behaviorally specific versus non-specific suppression of accumbens shell-mediated feeding by ipsilateral versus bilateral inhibition of the lateral hypothalamus. Behavioral brain research, 257, 230-241.

HONORS AND AWARDS

Elsevier/Vision Research Travel Award Vision Sciences Society	2020
NIH Training Grant Recipient Center for Visual Science, Rochester	2018-19/2019-20
Trainee Travel Award Recipient Marmoset Bioscience Symposium	2019
Computational Vision Summer School Attendee Computational Neuroscience Tubingen	2019
Primate Cognitive Neuroscience Summer School Attendee	
& Travel Award Recipient Primate System Neuroscience DFG, Germany	2019

CONFERENCE ABSTRACTS

- **S Coop**, Yates J, Mitchell JF (2020): Vision Sciences Society, Virtual. Enhanced neural tuning in middle temporal area (MT) of the marmoset monkey during pre-saccadic attention
- Yates JL, Coop SH, Mitchell JF (2020): Vision Sciences Society, Virtual. Beyond fixation: foveal receptive field estimation in freely viewing primates.
- GH Sarch, Yates J, **SH Coop**, JF Mitchell (2019): Marmoset Bioscience Symposium, Chicago IL. Identification of cortical layers from current source density (CSD) analysis and two local field band-power measures in marmoset V1
- **SH Coop**, Yates J, Mitchell JF (2019): The Society for Neuroscience, Chicago, IL. Neuronal mechanisms of pre-saccadic attention in middle temporal area of the marmoset monkey
- Yates JL, Coop SH, Mitchell JF (2019): Vision Sciences Society, St Pete, FL. V1 neurons tuned for high spatial frequencies show pre-saccadic enhancement.
- Yates JL, **Coop SH**, Mitchell JF (2018): The Society for Neuroscience, San Diego, CA. Presaccadic modulation of sensory responses in primary visual cortex
- **SH Coop**, G Bunce, J Mitchell (2017): The Society for Neuroscience, Washington D.C. Spatial cueing and planned saccade tasks in the marmoset
- V Jovanovic, **S Coop**, CT Miller (2014): The Society for Neuroscience, Washington D.C.

 Vocal Signal Processing and social categorization during natural communication in marmoset frontal cortex neurons
- M Macdougall, **S Coop**, J Mitchell, CT Miller (2014): The Society for Neuroscience, Washington D.C. A preparation for optogenetic photostimulation in marmoset cortex
- **SH Coop**, KR Urstadt ,O Shahin, BG Stanley (2013): The Society for Neuroscience, San Diego, CA.
 Antagonistic Interactions between Lateral Hypothalamic NMDA Receptors and GABA_A Receptors
 Regulating Food Intake
- KR Urstadt, B Banuelos, **S Coop**, BG Stanley (2012): The Society for the Study of Ingestive Behavior, Zurich, Switzerland. Ipsilateral Lateral Hypothalamic NMDA Receptor Antagonism Suppresses Accumbens Shell-Mediated Eating in a Behaviorally Specific Manner

LEADERSHIP

Women in Neurosciences (WINS) Member University of Rochester	2019-2020
 Participated in the organization that promotes equity for women in academia and leadership roles. 	
Student Organizer for Graduate Recruitment BCS, University of Rochester	2017-2019
 Helped organize and run the BCS graduate recruitment weekend for two years. 	
Faculty Search Member BCS, University of Rochester	2017-2018
 Served as the graduate student member on the Systems Neuroscience hire 	
search committee.	
Volunteer Presenter Rochester Museum & Science Center, "Ladies in the Lab"	2017
Provided a hands-on demonstration of electrophysiology to the public during an	
event that celebrated how women have impacted the sciences.	
Stem Mentor University of California San Diego	2014-2015
Mentored several female undergraduate research assistants, including two who were	
through UCSD's Initiative for Maximizing Student Development (IMSD) and Training	
Academy for Research in the Sciences (STARS)	
Resident Adviser University of California Riverside	2010-2012
 Led and provided support to a residence hall community of 70 first year students 	