


Sharri Zamore
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 @TheDoctaZ

Professional Preparation

2015 National Science Foundation Postdoctoral Fellow, Virginia Tech
2015 PhD., Neurobiology and Behavior, University of Washington
2007 B.S., Biological Sciences, Cornell University

Employment

2015-present National Science Foundation Postdoctoral Fellow, Socha Lab, Virginia Tech
2018-present Freelance writer for SciShow, Complexly, LLC
2009-2015 Pre-doctoral Research Assistant, Daniel & Fairhall Labs, University of Washington
2007-2009 Lab Manager, Research Assistant, Feldman Lab, University of California, Berkeley
2006-2007 Howard Hughes Scholar, Undergraduate Researcher, Winkler Lab, Cornell University
2004-2005 Mammal Collections Manager, Cornell Museum of Vertebrates

Research and Science Communication Skills

Proficient in Python, MATLAB; experienced with OpenCV, scikit learn, C#, R, SAS.
Proficient in Adobe Illustrator CS4+, Adobe Photoshop CS4+.
Proficient with Microsoft Office Suite.
Proficient with Final Cut Pro X, Blender, Unity, Solidworks.
Proficient in conducting high speed videography.
Proficient in development computational models of whole-organism behavior, as well as single and population neural behavior.
Proficient in experimental apparatus design, construction, and automated control (including optokinetic response arena, low speed wind tunnel, temporal discrimination operant chamber).
Experienced with electrical engineering.

Teaching Experience

2018 Neurobiology of Superpowers – Systems Neuroscience and Dynamic Control Course, Virginia Tech, Original Course, Fall 2018)
2017 Guest Lecturer, Foundations of Engineering Course, Virginia Tech, November 30.
2010 Graduate Teaching Assistant Introduction to Neurobiology Lecture & Lab, University of Washington, Neurobiology and Behavior Program, Spring quarter.
2006 Undergraduate Teaching Assistant – Herpetology Lab and Lecture, Cornell University, Biological Sciences, Fall Semester.

Outreach Experience

- 2016-present Assisting development of exhibit, Science Museum of Western VA
- 2018 Giles County Classroom Visit, kindergarten
- 2018 Giles County Classroom Visit, grades 6 and 7
- 2018 Virginia Science Fest, Virginia Tech
- 2018 National Biomechanics Day, Virginia Tech, Socha Lab
- 2017 Wondrous World, YouTube Series
- 2017 Virginia Science Fest Exhibit, Virginia Tech
- 2017 Women's preview weekend lab tour, Virginia Tech, Center for Enhancement of Engineering Diversity
- 2017 Science Museum of Western Virginia Middle School Summer Camp, Virginia-Maryland College of Veterinary Medicine
- 2016 National Biomechanics Day, Virginia Tech, Socha Lab
- 2016 Women in Engineering Luncheon, Postdoctoral representative, Virginia Tech
- 2015 Virginia Tech Bug Fest, Virginia Tech
- 2015 Virginia Science Fest, Virginia Tech
- 2009-2015 Neurobiology and Behavior Outreach Team member, University of Washington
- 2010-2014 Brain Awareness Week Event Organizer, University of Washington

Research Mentorships: Undergraduates, High School Teachers

- 2018- present Undergraduate volunteer research mentor for Nicole Araujo, Virginia Tech
- 2017-present Undergraduate Student Mentor for Student African American Sisterhood, Black Graduate Student Organization, Virginia Tech
- 2017 Research Experience for Teachers (RET) mentor, Virginia Tech
- 2017 Undergraduate volunteer research mentor for Tom Otgonbayar, Virginia Tech
- 2016 Undergraduate volunteer research mentor for Alok Baral, Virginia Tech
- 2016 Undergraduate volunteer research mentor for Lauren Bochicchio, Virginia Tech

Invited Presentations

- 2018 Science Girls Summer Camp Guest Speaker, Science Museum of Southwest Virginia, Roanoke, VA, July 23
- 2018 Black College Institute Pre-College Program Guest Speaker, June 27
- 2018 Interdisciplinary Research Honors Society, Speaker Spotlight Series, March 12
- 2017 Classroom visit, grades 6-8 – The role of questions in research. Blacksburg New School, Blacksburg VA, May 23.
- 2016 Classroom visit, grade 12 – Applications of mathematics in everyday life and research. Franklin Township High School, Somerset, NJ, March 11.
- 2015 “From mosquitoes to snakes: Modeling behaviors and mechanical control” Oakton Community College, STEM Speaker Series, December 1.

Professional & Service Activities

- 2016-present Public Affairs Committee, Society for Integrative and Comparative Biology
- 2016-present Friends of Joe's Big Ideas - Joe Palca's Outreach Community, NPR
- 2013-present Council Member - Mindshark, LLC, A Burning Man Collective
- 2016-2018 Biomedical Engineering and Mechanics Diversity Committee, Virginia Tech
- 2013-2015 Neurobiology and Behavior Outreach Team Board Member, U of Washington

Publications in Prep

- Zamore S., Socha J.J. Optokinetic behavior in flying snakes (*Chrysopelea*). *J Exp. Biol.* 2019.
- Zamore S., Hernandez P., Socha J.J. The tongue stick: a novel tongue flicking behavior in flying snakes (*Chrysopelea*). *Bioletters*. 2019
- Zamore S., Graham M.R., Socha J.J. Head wagging as a dynamic response across behavioral contexts in the Paradise Tree Snake (*Chrysopelea paradisi*)., *J of SICB*. 2019.

Conference Presentations

- 2018 Zamore S., Socha JJ., “Head wagging and visual acuity in flying snakes (*Chrysopelea*).” Talk given at Society for Integrative and Comparative Biology, San Francisco, CA.
- 2017 Zamore S., Socha JJ., “How to assess visual control: Designing a virtual arena for flying snakes.” Talk given at Regional Society for Integrative and Comparative Biology, Blacksburg, VA.
- 2017 Zamore S., Bochicchio L., Socha JJ., “Visual acuity of flying snakes: Behavioral Responses to Optokinetic Stimuli” Talk given at Society for Integrative and Comparative Biology, Portland, OR.
- 2016 Zamore S., Bochicchio L., Socha JJ., “Characterization of Vision in Flying Snakes” Talk given at Regional Society for Integrative and Comparative Biology, Durham, NC.
- 2013 Zamore S., LaMarca E., Daniel T., “Thermonavigation using convective thermal cues in the mosquito *Aedes aegypti*. Talk given at Society for Integrative and Comparative Biology, San Francisco, CA.
- 2012 Zamore S., Daniel T., Fairhall A., “Modeling decision rules to optimize host localization in flying insects.” Poster presented at: The Pacific Northwest Computational Neuroscience Connection. Seattle, WA.
- 2012 Zamore S., Daniel T., Fairhall A., “Modeling decision rules to optimize host localization in flying insects.” Poster presented at: 10th International Congress of Neuroethology, College Park, MD.
- 2010 “Identifying flight stabilizing mechanosensors in the Eastern bumblebee (*Bombus impatiens*).” Poster presented at: 9th International Congress of Neuroethology, Salamanca, Spain

Certifications & Accolades

- 2018 Outstanding Postdoctoral Fellow & Community Organizer, BGSO, Virginia Tech
- 2017 OSHA Certified Aerial Lift Operator
- 2012 AIARE I Certified