


Shaz Zamore, Ph.D.

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The ATLAS Institute

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 TheDoctaZ | www.curiousdrz.com

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

2019-present Instructor & STEM Outreach Coordinator, ATLAS Institute, CU Boulder

2018-2020 Freelance writer for SciShow, Complexly, LLC

2015-2019 National Science Foundation Postdoctoral Fellow, Socha Lab, Virginia Tech

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

Teaching Experience (**bold** denotes original courses)

2021 **The State of Technology**, ATLS 4695, Spring semester.

2021 **Research Methods & Professional Development**, ATLS 5529, Joint appointment with Drs. Ellen Do, Annie Margret, Spring semester.

2019+ **Computational Foundations I** – Introductory Creative Coding Course, ATLAS, Core course, Fall 2019, Spring 2020, Summer 2020, Fall 2020, Summer 2021.

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.

Publications

Zamore S., Araujo N., Socha J.J. Visual acuity in the flying snake (*Chrysopelea paradisi*). *J of Integ. & Comp Biol.* Oct 2020.

in Prep

Zamore S., Wendler A. The Black Life Scientist Project. Mountaineers Books, 2022.

Zamore S., Hernandez P., Socha J.J. The tongue stick: a novel tongue flicking behavior in flying snakes (*Chrysopelea*). *Bioletters.* 2022

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*. 2022.

Grants & Awards

- 2021 Media Archaeology Lab Microgrant. June 2021. “Craniate.”
- 2021 CU Boulder Outreach Award. April 2021. “Craniate: Superpowered Learning for Underserved Students.”
- 2020 Research & Innovation Office Seed Grant. October 2020. “Craniate: Broadening STEM engagement with informal hands-on activities and storytelling.”
- 2015 NSF Postdoctoral Fellowship for Biology – Virginia Tech
- 2010 NIH Training Grant in Neuroscience – University of Washington

Outreach Experience

- 2021 ATLAS Community Outreach and Resource Network – Founder & faculty advisor.
- 2021 SkypeAScientist virtual classroom visits (54, kindergarten, grades 5 & 6.
- 2020 SkypeAScientist virtual classroom visit (1), grade 5
- 2019 TEDx Mile High Exhibitor liaison and coordinator
- 2019 Denver School of Technology and Science, Noles - Classroom visit, grades 6 & 7
- 2016-2019 Assisted development of exhibit, Science Museum of Western VA
- 2018 Giles County Classroom Visit, kindergarten, grades 6 & 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 Board member, University of Washington

Research Mentorships: Undergraduates, High School Teachers

- 2021 Undergraduate research mentor for Caileigh Hudson, CU Boulder
- 2020-present Undergraduate research mentor for Discovery Learning Apprentice Chase Gordanier, CU Boulder
- 2019-present Undergraduate design & research mentor for Arva Syed, CU Boulder
- 2019 Graduate faculty advisor for master’s student, Ria Khan. Defended May 2019.
- 2018- 2019 Undergraduate volunteer research mentor for Nicole Araujo, Virginia Tech
- 2017-2019 Undergraduate Student Mentor for Student African American Sisterhood, Black Graduate Student Organization, Virginia Tech
- 2017 Research Experience for Teachers (RET) mentor, Virginia Tech
- 2016-2017 Undergraduate volunteer research mentor, Virginia Tech

Invited Presentations

- 2021 “Neuroengineering: The Future of Neuroscience” – Simply Neurocon Virtual Student Conference, June 27.
- 2021 “Flying Snake Vision & Its Ecological Considerations” – Cal Academy of Sciences “Snakes Patricks Day”, March 17.
- 2020 “The Tale of the Snake: A Story of Human Curiosity” – Institute for Cognitive Sciences, CU Boulder, Boulder, CO, October 2
- 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

- 2019-2022 Public Affairs Committee Chair, Society for Integrative and Comparative Biology
- 2016-2019 Public Affairs Committee, Society for Integrative and Comparative Biology
- 2016-present Friends of Joe’s Big Ideas - Joe Palca’s Outreach Community, NPR
- 2013-2018 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

Conference Presentations

- 2020 Zamore S, Araujo N, Socha JJ, “Visual behavior in flying snakes: measurement and exploration with virtual reality.” Talk given at Society for Integrative and Comparative Biology Symposim S8- Long, Limbless Locomotors. Austin, TX.
- 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

Social Media & Press

- 2021 “[Taking Ownership](#)”, CU Engineering Magazine, featured, April 21.
- 2021 “[Building a More Diverse and Inclusive Academia](#)”, Papa PhD, guest, March 25.
- 2020 “[Black in Nature](#)”, Integrative and Comparative Biology Journal blog, featured, July 9.
- 2020 [My Fave Queer Chemist podcast](#), guest, July 2.
- 2020 CU Boulder Today Spotlight: “[Scientist reflects on the joys and challenges of being a Black nature lover](#)” August (featured).

70,000+ views of video content on Twitter (@TheDoctaZ)

~1800 followers on Twitter (@TheDoctaZ)

~800 followers on Instagram (@TheDoctaZ)

Certifications & Accolades

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