

# Scott C. Sterrett

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ssterrett.github.io

## EDUCATION

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<b>University of Washington</b>	Seattle, WA
Ph.D. in Neuroscience	Dec. 2024
<b>Johns Hopkins University</b>	Baltimore, MD
Master of Science in Biomedical Engineering	May 2020
<b>Johns Hopkins University</b>	Baltimore, MD
Bachelor of Science in Biomedical Engineering	May 2017

## RESEARCH EXPERIENCE

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<b>Postdoctoral Researcher: Allen Institute for Neural Dynamics</b>	2025–present
Advised by Dr. Laura Driscoll & Dr. Cindy Poo	
<b>Graduate Researcher: University of Washington Neuroscience</b>	2020–2024
Advised by Dr. Adrienne Fairhall & Dr. David Gire	
<b>Graduate Researcher: Johns Hopkins Biomedical Engineering</b>	2017–2020
Advised by Dr. Xiaoqin Wang	
<b>Undergraduate Researcher: Johns Hopkins Biomedical Engineering</b>	2014–2017
Advised by Dr. Nitish Thakor & Dr. Gene Y. Fridman	

## JOURNAL ARTICLES

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\* Denotes equal contribution

<b>Sterrett, S.C.*</b> , Findley, T.M.*, Rafilson, S.E., Brown, M.A., Weible, A.P., Marsden, R., Tarvin, T., Wehr, M., Murray, J.M., Fairhall, A.L., Smear, M.C.	2025
“Olfactory bulb tracks breathing rhythms and place in freely behaving mice” <i>eLife</i>	
Krishnan, K., Muthukumar, A., <b>Sterrett, S.</b> , Pflitsch, P., Fairhall, A.L., Fishman, M., Bahl, A., Zwaka, H., Engert, F.	2025
“Attentional switching in larval zebrafish” <i>Science Advances</i>	
Hassinan, C.W.* , <b>Sterrett, S.C.*</b> , Summy, B., Khera, A., Wang, A., Bai, J.	2024
“Dimensionality of locomotor behaviors in developing <i>C. elegans</i> ” <i>PLOS Computational Biology</i>	
Tariq, M.F., <b>Sterrett, S.C.</b> , Moore, S., Lane, Perkel, D.J., Gire, D.H.	2024
“Dynamics of odor-source localization: Insights from real-time odor plume recordings and head-motion tracking in freely moving mice” <i>PLOS ONE</i>	

## PREPRINTS

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\* Denotes equal contribution

Blankenship, L.* , <b>Sterrett, S.C.*</b> , Martins, D.M., Findley, T.M., Abe, E., Parker, P.R.L., Niell, C.M., Smear, M.C.	2026
“Visualizing and sonifying neurodata (ViSoND) for enhanced observation” <i>bioRxiv</i>	

## SELECTED PRESENTATIONS AND CONFERENCE PROCEEDINGS

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<b>Sterrett SC</b> , Brown MA, Findley T, Weible AP, Rafilson S, Wehr M, Murray JM, Fairhall AL, Smear MC.	2024
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“Mouse olfactory bulb encodes breathing rhythms and place” <i>COSYNE</i>	
<b>Sterrett SC</b> , Gire DH, Fairhall AL.	2024
“Contributed Talk: Piriform cortex as a meta-reinforcement learning system for olfactory navigation” <i>Janelia Mechanistic Basis of Foraging</i>	
<b>Sterrett SC</b> , Zhao LY, Wang X.	2020
“Latent space characterization and generation of Marmoset vocalizations using variational autoencoders” <i>Marmoset Bioscience Symposium</i>	
<b>Sterrett SC</b> , Zhao LY, Wang X.	2019
“Characterization of Movements Evoked from Electrical Stimulation of Motor Cortex in Awake Marmosets” <i>Soc. for Neuroscience</i>	
Cheng C, Thakur R, Nair AR, <b>Sterrett SC</b> , Fridman GY.	2017
“Miniature elastomeric valve design for safe direct current stimulator” <i>IEEE BioCAS</i>	

## PROFESSIONAL TRAINING

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Software Carpentries Instructor Training	2023
Científico Latino DEI Workshop	2023
Simons Foundation CIMER Mentorship Training	2021
Cold Spring Harbor Asia Computational and Cognitive Neuroscience Summer School	2019
Johns Hopkins Center for Educational Resources Teaching Institute	2019
Johns Hopkins Teaching Academy Certificate Program	2017–2020

## FELLOWSHIPS AND AWARDS

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Allen Institute Nautilex Hackathon AWS Prize	2026
Simons Collaboration on the Global Brain Trainee Exchange Supplement	2022
University of Washington Computational Neuroscience Training Grant	2020–2021
University of Washington Excellence in Teaching Award Nominee	2020
Johns Hopkins University Teaching-as-Research Fellowship	2020
Johns Hopkins Neuroengineering Training Grant	2017–2018
Johns Hopkins Business Plan Competition Medtech Runner Up	2016
College Swim Coaches Assoc. of America Scholastic All-America	2014–2017
Westinghouse Family Scholarship	2013

## TEACHING

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Guest Lecture: Brains in Motion (University of Washington Psych448)	2024–2026
Teaching Assistant: Summer Workshop on the Dynamic Brain (Allen Institute)	Summer 2024
Co-Instructor: Software Carpentry Python (University of Washington eScience)	Winter 2024
Guest Lecture: Brains Civilization and Research (University of Washington BIO450)	Spring 2023
TA: Software Carpentry Python (University of Washington eScience)	Winter 2023
Co-Instructor: Software Carpentry Python (University of Washington eScience)	Fall 2022
TA: Software Carpentry Python (University of Washington eScience)	Winter 2022
TA: Current Research in Neuroscience (University of Washington Neuro 450)	Fall 2020
Instructor: BME Innovation (Johns Hopkins University BME 130)	Summer 2020
Head TA: Frontiers in Neuroengineering (Johns Hopkins University BME 781)	Spring 2020
Head TA: Molecules and Cells (Johns Hopkins University BME 221)	Fall 2019

## **SERVICE**

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COSYNE Reviewer	2025–2026
UW Computational Neuroscience Center Seminar Committee	2022–2023
UW Grad Prog Neuroscience Student Representative Council	2022–2024
Urban Native Education Alliance Tutor	2020–2025
Simons SCGB Undergraduate Fellowship Reviewer	2021, 2022
UW Theoretical Neuroscience Journal Club Head Organizer	2021–2022
UW Physiology and Biophysics Faculty Search Committee	2020
Greater Baltimore Society for Neuroscience: Meeting Planning Committee	2019
JHU Engaged Scholar Graduate Network: Member	2018–2020
JHU BME Ph.D Council: Academic Chair and Recruitment Board	2017–2019
JHU Project Bridge: Science at the Market & Brainfest Planning Committee	2017–2019

## **STUDENT SUPERVISION**

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Margaret Lee – PostBacc, Allen Institute for Neural Dynamics	2025
Arnav Khera – Undergraduate, Computer Science, University of Washington	2021–2024
A’Dawnah Pangelinan – Undergraduate, Simons Fellowship, University of Washington	2021
Sidney Moore – Undergraduate, Psychology, University of Washington	2020
Kevin Zhu – Undergraduate, Biomedical Engineering, Johns Hopkins University	2018–2019

*updated May 2026*