Scott C. Sterrett

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Education

University of Washington — Seattle, WA
Ph.D. Student in Neuroscience — exp Dec. 2024
Advised by Dr. Adrienne Fairhall & Dr. David Gire

Johns Hopkins University — Baltimore, MD
Master of Science in Biomedical Engineering — May 2020
Advised by Dr. Xiaoqin Wang

Johns Hopkins University — Baltimore, MD
Bachelor of Science in Biomedical Engineering — May 2017
Advised by Dr. Nitish Thakor & Dr. Gene Fridman

Research Experience

Graduate Researcher: University of Washington Neuroscience — 2020-present
Advisor: Dr. Adrienne Fairhall
Computational models of behaviors and circuits for odor-guided navigation

Graduate Researcher: Johns Hopkins Biomedical Engineering — 2017-2020
Advisor: Dr. Xiaoqin Wang
Latent structure of Marmoset monkey vocalizations

Undergraduate Researcher: Johns Hopkins Biomedical Engineering — 2016-2017
Advisor: Dr. Gene Y. Fridman
Low-power valves for ionic implantable vestibular prosthetic

Undergraduate Researcher: Johns Hopkins Biomedical Engineering — 2014-2015
Advisor: Dr. Nitish Thakor
Wearable EMG recording device for neural-control of upper-limb prosthetics

Professional Training

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

Presentations and Conference Proceedings

Brown MA, Findley T, **Sterrett SC**, Weible AP, Karlsson M, Fairhall AL, Murray JM, Smear MC. *Soc. for Neuroscience* 2021
Neural correlates of time and place in the olfactory bulb of freely-moving mice

Sterrett SC, Gire DH, Fairhall AL. *Neural Computation and Engineering Connection* 2020
Hidden Markov models of locomotion during odor-guided navigation

Sterrett SC, Zhao LY, Wang X. *Marmoset Bioscience Syposium* 2020
Latent space characterization and generation of Marmoset vocalizations using variational autoencoders

Sterrett SC, Zhao LY, Wang X. *Soc. for Neuroscience* 2019
Characterization of Movements Evoked from Electrical Stimulation of Motor Cortex in Awake Marmosets

Cheng C, Thakur R, Nair AR, **Sterrett SC**, Fridman GY. *IEEE BioCAS* 2017
Miniature elastomeric valve design for safe direct current stimulator.

Fellowships and Awards

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

TA: Software Carpentry Python (University of Washington eScience)	2022
TA: Current Research in Neuroscience (University of Washington Neuro 450)	2020
Instructor: BME Innovation (Johns Hopkins University BME 130)	2020
Head TA: Frontiers in Neuroengineering (Johns Hopkins University BME 781)	2020
Head TA: Molecules and Cells (Johns Hopkins University BME 221)	2019

Service

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
Engaged Scholar Graduate Network: Member	2018– 2020
JHU BME Ph.D Council: Academic Chair and Recruitment Board	2017 – 2019
Project Bridge: Science at the Market & Brainfest Planning Committee	Oct. 2017 – Present

Student Supervision

Arnav Khera - Undergraduate, Computer Science, University of Washington	2021-Present
A'Dawnah Pangelinan - Undergraduate, Simons Fellowship, University of Washington	2021
Sidney Moore - Undergraduate, Pyschology, University of Washington	2020
Kevin Zhu - Undergraduate, Biomedical Engineering, Johns Hopkins University	2018-2019

Professional Membership

Bernstein Network Computational Neuroscience	2022
Society for Neuroscience	2017-Present