

James Scully
Georgia State University
Neuroscience Institute
33 Gilmer St SE Atlanta, GA 30303
404-862-2827
jscully2@student.gsu.edu

EDUCATION

Georgia State University	2017
Bachelor of Science	
Magna Cum Laude	
Georgia State University	in progress
PhD Neuroscience	

PUBLICATIONS

Published

- Scully, J. J., Neiman, A. B., & Shilnikov, A. L. "Measuring chaos in the Lorenz and Rössler models: Fidelity tests for reservoir computing". *Chaos*. (2021).
- Hinsley, C. Scully, J. J., Shilnikov, A. L. "Bifurcation structure of interval maps with orbits homoclinic to a saddle-focus." *Ukrainian Mathematical Journal* (2024)
- Scully, J. J., Bloom, D., Bouraman, J., & Shilnikov, A. L. "Pairing cellular and synaptic dynamics into building blocks of rhythmic neural circuits." *Frontiers in Network Physiology* (2024).

In Press

- Scully, J. J., Hinsley, C., Bloom, D., Meijer, Hil G.E., & Shilnikov, A. L. "Oscillating slow currents induce widespread neuronal chaos"

In Progress

- Scully, J. J., Sakurai, A., Katz, P., Bosonetto, J., Shilnikov, A. L. "Adaptability and Resilience in the Dendronotus Iris."

CONFERENCE POSTERS AND TALKS

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| • GSURC undergraduate research conference. Atlanta, GA. April (Poster) | 2017 |
| • Brains & Behavior retreat. Atlanta, GA. May (Poster) | 2017 |
| • DS17 Siam Dynamical Systems. Salt Lake City, Utah. May (Poster) | 2017 |
| • UNN Dynamics, Bifurcations, and Chaos. Nizhny Novgorod, Russia. July (Talk) | 2018 |
| • Volga Neuroscience Meeting. Volga river, Russia. July (Poster) | 2018 |
| • Juliacon Greater London, UK. July (Attendee) | 2018 |
| • DS19 Siam Dynamical Systems. Salt Lake City, Utah. May (Talk) | 2018 |
| • Brains & Behavior retreat. Atlanta, GA. May (Poster) | 2021 |
| • Brains & Behavior retreat. Atlanta, GA. May (Poster) | 2022 |

- DS23 Siam Dynamical Systems. Portland, Oregon. May 2023
- Neuroscience Institute Breakfast and Lecture (Talk) 2024
- Brains & Behavior retreat. Atlanta, GA. May (Poster) 2024

TEACHING AND MENTORSHIP

- Principles of Neuroscience I (TA). Spring 2021
- Neuroethology (TA). Fall 2021
- Mentored undergraduate B&B summer scholar. 2021
- Neuroscience of Emotion and Motivation (TA). Fall 2022
- Cognitive Neuroscience (TA). Fall 2023

COMPETITIONS

- Member of winning team at Brainhack ATL 2020 2020