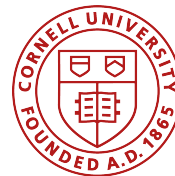


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Profile

I'm a third year PhD student at Cornell University with the pleasure of being advised by Eshan Chattopadhyay. I primarily work in pseudorandomness with a focus on randomness condensing from adversarial sources.

Education

- 2022–Present **PhD | Computer Science (Theory)**, *Cornell University*, Ithaca, NY.
GPA, 4.036.
- 2017–2022 **MS | Computer Science (AI)**, *Stanford University*, Stanford.
GPA, 3.920.
- 2017–Present **BS | Mathematics**, *Stanford University*, Stanford.
Notation | Science Communication.
GPA, 3.920.

Publications/Presentations

- Nov 2024 E. Chattopadhyay, M. Gurumukhani, N. Ringach, "Condensing Against Online Adversaries" – In submission to STOC 2025
- Oct 2024 E. Chattopadhyay, M. Gurumukhani, N. Ringach, Y. Zhao, "Two-Sided Lossless Expanders in the Unbalanced Setting" – Manuscript
- April 2024 E. Chattopadhyay, M. Gurumukhani, and N. Ringach, "On the Existence of Seedless Condensers: Exploring the Terrain" – FOCS 2024
- Dec 2020 Justus M. Kebschull et al., Cerebellar nuclei evolved by repeatedly duplicating a conserved cell-type set. *Science* 370, eabd5059(2020). DOI: 10.1126/science.abd5059
- Summer 2019 "Evolution of Efferents and Spatial Segregation of Cell Types in the Deep Cerebellar Nuclei" – Stanford B-SURP
- Summer 2018 "Projection Neuron Dendrite Targeting and Novel Class-Specific DA1 Driver in *Drosophila* Antennal Lobe" – Stanford B-SURP

Fellowships

- Awarded 2022 NSF GRFP
- Awarded 2022 Cornell Bowers Computing & Information Science Deans Excellence Fellowship

Volunteering

- Summer 2024 Organized social events for undergrads at Cornell Bowers Undergraduate Research Experience (BURE).
- Fall 2024 Participated in CIS grad school mentoring session to help undergraduates navigate grad school admissions and whether it's right for them.
- Fall 2023-24 Participated in the CIS grad research night to help get undergraduates interested in research.
- Winter 2023 Helped to read CS PhD applications for the department.

- Summer 2023 Participated in Cornell's CS Student-Application support program by helping under-represented students prepare applications for PhD admissions.
- Summer 2023 Gave lectures on how to perform research and have a healthy advisor relationship at Cornell BURE.
- Summer 2023 Participated in the Boyce Thompson Institute REU program as a PhD mentor to help undergraduates navigate doing research in computational biology for the summer.

Internships

- Summer 2021 Microsoft Azure network team. Set up a graphical neural network to detect and classify errors in the Azure network.
- Summer 2019-20 Stanford B-SURP, Luo Lab, Efferents of the Deep Cerebellar Nuclei (DCN) in *X. tropicalis* and Evolution of the Spatial Segregation of DCN Cell Types
Mentor: Justus Kebschull
- Summer 2018 Stanford B-SURP, Luo Lab, *Drosophila* PN Targeting and Class-Specific Drivers
Mentor: Qijing Xie
- Summer 2016 UCLA Internship, Frye Lab, Image Analysis of Flight Stabilization in *Drosophila*
- Summer 2015 UCLA Internship, Bouchard Lab, MATLAB Sensor-Flow Interface