

## EDUCATION

---

<b>Cornell University</b> Ph.D. in Computer Science, Advisor: Eshan Chattopadhyay	Ithaca, NY 08/2021–Present
<b>University of California San Diego</b> B.S. in Computer Science, B.S. in Mathematics	La Jolla, CA 08/2017–03/2021

## PUBLICATIONS

---

- E. Chattopadhyay, M. Gurumukhani, N. Ringach. On the Existence of Seedless Condensers: Exploring the Terrain. Manuscript.
- E. Chattopadhyay, M. Gurumukhani, J. Goodman. Extractors for polynomial sources over  $\mathbb{F}_2$ . In *15th Innovations in Theoretical Computer Science (ITCS) 2024*.
- H. An, M. Gurumukhani, R. Impagliazzo, M. Jaber, M. Künnemann, M. Nina. The fine-grained complexity of multi-dimensional ordering properties. *Algorithmica Vol 84, Number 11*. Preliminary version appeared in *16th International Symposium on Parameterized and Exact Computation (IPEC) 2021*.

## TEACHING

---

- **Graduate TA** at Cornell University Ithaca, NY
  - Grad Theory of Computing Fall 2023
  - Introduction to Analysis of Algorithms Fall 2022, Spring 2023
- **Undergraduate TA** at UC San Diego La Jolla, CA
  - Discrete Mathematics Winter 2021
  - Design and Analysis of Algorithms Spring 2020
  - Mathematics for Algorithms and Systems Analysis Fall 2019
  - Theory of Computation Winter 2019
  - Computer Organization and Assembly Spring 2018

## HONORS

---

- Cornell University Fellowship 2021
- Cornell CS Annual Award for Outstanding Teaching Assistant 2023
- Cornell CS Annual Award for Outstanding Service 2022
- Triton Research & Experiential Learning Scholars (TRELS) quarterly award (\$1000) for linguistics 2019
- Won third place at ACM ICPC SoCal regional and got invited to participate at ACM ICPC North America Championship 2019–2020
- Bronze medal at Asia Pacific Informatics Olympiad (APIO) 2017

## SERVICE

---

- Reviewer for CCC 2023, FOCS 2023, STOC 2024.
- Volunteered for Application Support Program to help prospective grad school applicants 2021, 2022, 2023
- Volunteered for Consider Cornell program to help prospective grad school applicants 2023
- Member of CS PhD Admissions Committee 2022
- Organized Expand Your Horizon workshop and taught computer networks to middle school girls 2022
- Volunteered for STEM Open House day grad student panel and CS Q/A 2021
- Member of CS Grad Organization and CS representative for Cornell Graduate Professional Student Assembly 2022
- Founder and president of Competitive programming at UCSD 2017–2021

## WORK EXPERIENCE

---

<b>Language Comprehension Lab, UC San Diego</b> Research Assistant	La Jolla, CA 2018–2021
<b>IMC Trading</b> Quantitative trading intern	Chicago, IL Summer 2020
<b>Rally health</b> Software engineering intern	San Francisco, CA Summer 2018