Aravinth Krishnan Ravi

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🌐 https://hippyhippohops.github.io/

Education

2022 – Current	**Ph.D. in Mathematics, Kansas State University** Advisor: Assoc Prof. Dinh-Liem Nguyen
2018 – 2022	**BSc in Mathematical Sciences (Pure Mathematics), Honours (Distinction), Nanyang Technological University** Thesis title: *A conjecture for the eigenvalues of pseudo-Anosov mappings of surfaces.* Advisor: Assoc Prof. Andrew James Kricker

Research Publications

In preparation

1. A. Ghanaatian, **Ravi, Aravinth K.**, D. Caragea, N. Albin, and D. Rolles, "Neural network based molecular structure retrieval from coulomb explosion imaging data," 2025.

Awards & Grants

Awards

2021, 2020	**Nanyang Technological University President Research Scholar**

Talks

Invited Talks

Fall 2025	**10th Annual Meeting of SIAM Central States Section, Fayetteville, Arkansas**
Fall 2024	**9th Annual Meeting of SIAM Central States Section, Kansas City, Missouri**

Contributed Talks

Spring 2025	**International Mathematics and Statistics Student Research Symposium 2025 (Virtual)**
	AMS 2025 Spring Central Sectional Meeting, University of Kansas
Spring 2024	**Kansas Mathematics Graduate Student Conference, Kansas State University**

Employment History

Jan 2025 - Current	**Graduate Research Assistant**, Physics Department, Kansas State University
May 2022 – Aug 2022	**Researcher**, School of Physical and Mathematical Sciences, Nanyang Technological University
Aug 2021 – Dec 2021	**Machine Learning Intern**, Communications & Network Department, Institute of Infocomm Research, Agency for Science, Technology and Research, Singapore

Skills

Languages	⚑	English
Coding	⚑	Python, Matlab

Summer Schools

Fall 2024	⚑	**Applied Harmonic Analysis and Machine Learning Summer School**, Dipartimento di Matematica, Universit'a di Genova Genoa, Italy
Summer 2024	⚑	**OIST-Oxford-SLMath Summer Graduate School on Analysis of Partial Differential Equations 2024, Okinawa Institute of Science and Technology, Japan**
	⚑	**Statistical Learning Theory Crash Course**, PhD Program in Computer Science and Systems Engineering of Università degli Studi di Genova, Italy

Academic Appointments

Lecturer	⚑	Spring Mathematical Modelling Seminar, Applied Matrix Theory
Recitation Instructor	⚑	Calculus I, Applied Matrix Theory, Applied Matrix Theory (Virtual)

References

Available on Request