

Aravinth Krishnan Ravi

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🐦 @hippyhippohops

📄 <https://github.com/hippyhippohops>

🌐 <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

Awards & Grants

Awards

- 2021 📖 **Nanyang Technological University President Research Scholar**
- 2020 📖 **Nanyang Technological University President Research Scholar**

Talks

Invited Talks

- Fall 2024 📖 **9th Annual Meeting of SIAM Central States Section, Kansas City, Missouri**
A model-informed neural network for solving inverse scattering problem

Contributed Talks

- Spring 2025 📖 **AMS 2025 Spring Central Sectional Meeting, University of Kansas**
Solving inverse source problems with a model-informed neural network

Employment History

- Current 📖 **Graduate Research Assistant**, Mathematics & Physics Department, Kansas State University
Project: Inverse imaging of Coulomb Explosion using Variational Autoencoders (VAEs) and Conditional VAEs

Skills

- Languages 📖 English
- Coding 📖 Python, Matlab, JAX

Certifications

- Fall 2024 📖 **Applied Harmonic Analysis and Machine Learning Summer School**, Dipartimento di Matematica, Università di Genova Genoa, Italy
- Summer 2024 📖 **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

References

Available on Request