

Sriharsha Indukuri

GRADUATE STUDENT · MATHEMATICS

Washington University, 1 Brookings Dr, St. Louis, MO 63130

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Education

Washington University in St. Louis

PH.D. MATHEMATICS

- Advisors: Prof. Xiang Tang, Prof. Yanli Song

St. Louis, Missouri

August 2024 - present

Indian Institute of Technology, Bombay

RESEARCH FELLOW, MATHEMATICS

- Prime Minister's Research Fellow

Mumbai, India

August 2023 - May 2024

National Institute of Science Education and Research

BS + MS MATHEMATICS

- Minor: Computer Science
- Thesis Advisor: Prof. Sutanu Roy

Bhubaneswar, India

July 2018 - May 2023

Research Interests

Index Theory, Operator Algebras, Noncommutative Geometry

Research Projects

Weyl's Law for Products of CROSSES, Preprint: <https://arxiv.org/abs/2407.05274> (with Ritwik Mukherjee)

K-Theory, Fredholm Operators and Their Index, Master's Thesis.

Awards, Fellowships

2023 - 2024 **Prime Minister's Research Fellowship (PMRF)**, Ministry of Human Resource Development, India

2023 **Best Master's Thesis (Mathematics)**, School of Mathematical Sciences, NISER

2023 **Junior Research Fellowship**, University Grants Commission, India

Not Availled

2018-2023 **DISHA UG Fellowship**, Department of Atomic Energy, India

Talks/ Seminars

November 2025 Geometry and Topology Seminar: Dept. of Mathematics, WashU.

November 2024 Szego Seminar: Dept. of Mathematics, WashU *The Heat Kernel and Eigenvalues of the Laplacian*

Teaching Experience

Fall 2025 **Calculus - III**, Teaching Assistant

WashU

Spring 2024 **Fourier Analysis and Its Applications**, Teaching Assistant

IIT Bombay

Conferences Attended

- April 2025 **Graduate Student Geometry and Topology Conference**, Indiana University, Bloomington
Jan 2025 **Gone Fishing: Poisson Geometry Conference**, Washington University in St. Louis