Sriharsha Indukuri

GRADUATE STUDENT · MATHEMATICS

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

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Education

Washington University in St. Louis   *St.Louis, Missouri*
PH.D. MATHEMATICS   *August 2024 - present*
- Advisors: Prof. Xiang Tang, Prof. Yanli Song

Indian Institute of Technology, Bombay   *Mumbai, India*
RESEARCH FELLOW, MATHEMATICS   *August 2023 - May 2024*
- Prime Minister's Research Fellow

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National Institute of Science Education and Research   *Bhubaneswar, India*
BS + MS MATHEMATICS   *July 2018 - May 2023*
- Minor: Computer Science
- Thesis Advisor: Prof. Sutanu Roy

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

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Talks/ Seminars

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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