## Renu Shekhawat

Stat-Math Unit, Indian Statistical Institute, 8th Mile, Mysore Road, RVCE Post, Bangalore - 560 059 rs math1904@isibang.ac.in

#### **Education**

Indian Statistical Institute, Bangalore Centre

Philosophiae Doctorate in Mathematics Supervisor: Dr. Soumyashant Nayak

University of Rajasthan

Sophia Girls' College

Master of Mathematics

Bachelor of Mathematics

**Research Interests** 

Functional analysis, Operator algebras

### **Publications**

- S. Nayak, R. Shekhawat; A stronger form of Yamamoto's theorem II: Spectral operators (2024). arXiv:2410.16318
- S. Nayak, R Shekhawat; On the Jordan-Chevalley-Dunford decomposition of operators in type I Murray-von Neumann algebras (submitted).

#### Fellowships / Scholarships

- Junior Reseach Fellowship (Declined due to acceptance of the Institute fellowship at ISI)
  - University Grants Commission, Government of India.

Dec 2018

Bangalore, India Jul 2019-present

Jaipur, India

Ajmer, India

Aug 2016 - Aug 2018

Jul 2013 - Jul 2016

- Council of Scientific and Industrial Research, Department of Science and Technology, Government of India.

Jun 2017

• Inspire Scholarship for Higher Education

Department of Science and Technology, Government of India.

Jul 2013 - Jul 2018

## Teaching Assistant / Grader

• Function spaces, B.math(III) - Semester I

Aug 2023 - Nov 2023

Instructor: Soumyashant Nayak

• Complex Analysis, M.Math(I) - Semester II

Jan 2022 - May 2022

Instructor: Ramesh Shreekantan

• Comlex Analysis, B.Math(III) - Semester I

Sep 2021 - Dec 2021

Instructor: Mathew Joseph

# Conferences Attended

• Young Mathematicians in Operator Algebras Indian Statistical Institute, Delhi Centre	Delhi, India Mar 24 – 28, 2025
• Conference on Operator Algebra and Related Topics (COART) Indian Institute of Technology, Bombay	Mumbai, India Feb 24 – 29, 2025
• Noncommutative Mathematics and Applications (NCMA) Indian Statistical Institute, Bangalore Centre	Bangalore, India Oct 24 – 26, 2024
• Young Mathematicians in Operator Algebras Indian Statistical Institute, Delhi Centre	Delhi, India Feb 26 – Mar 02, 2024
• International Conference on Spectral and Approximation Theory (ICSAT) Cochin University of Science and Technology, Kerala	Kochi, India Nov 27 – 30, 2023
• Conference on Functional Analysis and Related Topics (CFART) Indian Institute of Technology, Bombay	Mumbai, India Feb $21-25$ , $2023$
• IWM (Indian Women and Mathematics) Annual Conference Indian Institute of Science Education and Research, Pune	Pune, India Dec 27 - 29, 2022
• Indo-French Centre for Applied Mathematics (IFCAM) Summer School on Mathematical Aspects of Quantum Mechanics Indian Institute of Science, Bangalore	Bangalore, India Jun 01 – 12, 2022
Talks	
• Contributed Talks :	
<ul> <li>Convergence of the normalized power sequence for spectral operators</li> <li>COART, Indian Institute of Technology, Bombay</li> <li>On Matrices over C(X) for X a Stonean space</li> </ul>	Feb 27, 2025
ICSAT, Cochin University of Science and Technology, Kerala  • Seminar Talks:	Nov 27, 2023
- An elementary computational approach to the Jordan-Chevalley decomposition	
and the Jordan canonical form.  PDF - RS Annual Symposium, Indian Statistical Institute, Bangalore Centre  — Convergence of the normalized power sequence for spectral energtors	Jan 31, 2025
<ul> <li>Convergence of the normalized power sequence for spectral operators</li> <li>QP - Day at ISI, Indian Statistical Institute, Bangalore Centre</li> </ul>	Jan 15, 2025