# INDRAJIT GHOSH

Stat-Math Unit, Indian Statistical Institute  $\diamond$  8th Mile, Mysore Road  $\diamond$  RVCE Post  $\diamond$  Bangalore 560 059 rs\_math1902@isibang.ac.in  $\diamond$  indrajitghosh912@gmail.com

#### **EDUCATION**

Philosophiae Doctorate in Mathematics,
Stat-Math Unit, Indian Statistical Institute Bangalore

Master of Science in Pure Mathematics,
Department of Pure Mathematics, University of Calcutta

Bachelor of Science in Mathematics (Hons.),
Barasat Government College

Jul 2019 - Present
Bangalore, India

Kolkata, India

2016 - 2018

Kolkata, India

#### RESEARCH INTERESTS

Operator Algebras: von-Neumann Algebras, Type  $II_1$  Factors,  $C^*$ -algebras. Operator Theory, Topology.

#### **PUBLICATIONS**

(Pre-print) Algebraic aspects and functoriality of the set of affiliated operators with S. Nayak 2023

· arXiv: arXiv:2311.16170

#### FELLOWSHIPS AND ACHIEVEMENTS

- · Selected for **NBHM JRF** fellowship, *National Board for Higher Mathematics*, Dept. Of Atomic Energy, Govt. of India, 2019, Ref No. 0203/11/2019-R&D-II/9261.
- · Selected as JRF at Indian Statistical Institute, 2019
- · Selected as JRF at IIT Madras, 2019
- · Selected as JRF at IISER Bhopal, 2019
- · Qualified **GATE** in Mathematics(MA), 2019
- · Qualified Joint CSIR-UGC NET JRF fellowship, Dec 2018

#### CONTRIBUTED TALKS

## Young Mathematicians in Operator Algebras

Indian Statistical Institute Delhi

Feb 27, 2024 Delhi, India

· Place: Stat-Math Unit, ISI

· Website: https://sites.google.com/view/ymoa/home

## Workshop on Completely Positive Maps

Indian Statistical Institute Bangalore

Jan 15 - Apr 29, 2024 Bangalore, India

· Place: Stat-Math Unit, ISI

· Website: link here

# International Conference on Spectral and Approximation Theory

Cochin University of Science And Technology

Nov 27-30, 2023 Kerala, India

· Place: Dept. of Mathematics, Cochin University of Science And Technology

· Website: https://sites.google.com/view/icsat-23/

#### CONFERENCES AND WORKSHOPS ATTENDED

## Young Mathematicians in Operator Algebras

Indian Statistical Institute, Delhi

Feb 26 - Mar 02, 2024

Delhi, India

· Place: Stat-Math Unit, ISI Delhi

· Website: https://sites.google.com/view/ymoa/home

# International Conference on Spectral and Approximation Theory

Nov 27-30, 2023 Kerala, India

Cochin University of Science And Technology

· Place: Dept. of Mathematics, Cochin University of Science And Technology

· Website: https://sites.google.com/view/icsat-23/

## Conference on Functional Analysis and Related Topics

Feb 21-25, 2023 Bombay, India

Indian Institute of Technology

· Place: Victor Menezes Convention Centre(VMCC), IIT Bombay

· Website: https://sites.google.com/view/cfart-2023-iitb/

## ERGODIC THEORY AND DYNAMICAL SYSTEMS

Dec 05-16, 2022

International Centre for Theoretical Sciences

Bangalore, India

· Place: Ramanujan Lecture Hall (ICTS) and Online

· Website: https://www.icts.res.in/program/ETDS2022

## Baby Steps Beyond the Horizon - school for students

 $Aug\ 29\text{-}Sep\ 02,\ 2022$ 

Institute of Mathematics Polish Academy of Science

Warszawa, Poland

· Place: Online Mode

· Website: https://www.impan.pl/en/activities/banach-center/conferences/22-babysteps

## A conference on ergodic theory and von Neumann algebra

Aug 04-06, 2022

National Institute of Science Education and Research

Odisha, India

· Place: Online mode

· Website: https://www.niser.ac.in/etvna/

# ${\bf IFCAM\ Summer\ School\ -\ Mathematical\ Aspects\ of\ Quantum\ Mechanics}$

Jun 1-12, 2022

Indian Institute of Science

Bangalore, India

· Place: Indian Institute of Science, Bangalore

· Website: https://ifcam.sciencesconf.org/

## Advanced Instructional School - Advanced Linear Algebra

 $May\ 2022$ 

Indian Statistical Institute

Bangalore, India

· Organisers: Prof. Jaydeb Sarkar (Indian Statistical Institute, Bangalore), Prof. Rajesh Sharma (Himachal Pradesh University)

· Website: https://www.atmschools.org/school/2022/AIS/ala

# Conference on Quantum Probability and Infinite Dimensional Analysis

Jan 17-20, 2022 Bangalore, India

Indian Statistical Institute

· Local organisers: Prof. Rajaram Bhat (Indian Statistical Institute, Bangalore), Prof. Jaydeb Sarkar (Indian Statistical Institute, Bangalore)

· Website: https://www.isibang.ac.in/~statmath/conferences/QPIDA-2022.html

# IWM Mini Course on Approximate Solutions of Operator Equations and Eigenvalue Problems Nov~2021

 $\cdot$  Place: Online mode

· Organisers: Indian Women and Mathematics

· Website: IWM-MiniCourse-2021

## Online Workshop on Algebraic Number Theory

Sep 2020

Silchar, India

Assam University
• Place: Online mode

· Organiser: Prof. Samira Behera (Assam University, Silchar)

## TEACHING EXPERIENCE

## Teaching Assistant

Aug 1, 2023 - Nov 25, 2023

Bangalore, India

Indian Statistical Institute

· Course: Analysis of Several Variables (B. Math. II)

· Instructor: Mathew Joseph

## Teaching Assistant

Aug 2022 - Nov 2022

Indian Statistical Institute

Bangalore, India

· Course: Complex Analysis I (BMath III Year)

· Instructor: Mathew Joseph

## Teaching Assistant

Jan 2022 - May 2022

Indian Statistical Institute

Bangalore, India

· Course: Functional Analysis I (MMath I Year)

· Instructor: Soumyashant Nayak

## Teaching Assistant

Sep 2021 - Jan 2021

Indian Statistical Institute

Bangalore, India

· Course: Optimization (BMath II Year)

· Instructor: Soumyashant Nayak