# 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,	Jul 2019 - Present
Stat-Math Unit, Indian Statistical Institute Bangalore	Bangalore, India
Master of Science in Pure Mathematics,	2016 - 2018
Department of Pure Mathematics, University of Calcutta	Kolkata, India
Bachelor of Science in Mathematics (Hons.), Barasat Government College	2013 - 2016 Barasat, India

#### RESEARCH INTERESTS

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

#### 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.
- $\cdot$  Selected as JRF at Indian Statistical Institute, 2019
- $\cdot$  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

#### PROJECTS & OTHER ACTIVITIES

## Directed Reading Project

Jan 2021 - May 2021

 $Indian\ Statistical\ Institute$ 

Bangalore, India

- · Supervisor: Prof. Soumyashant Nayak
- · Topics studied:  $C^*$ -Algebras, States and Representations, SOT and WOT on  $\mathcal{B}(\mathcal{H})$ , von-Neumann Algebras.

#### Graduate Course Work: Operator Theory

Sep 2020

Indian Statistical Institute

Bangalore, India

- · Instructor: Prof. Rajaram Bhat
- · Topics Studied: Locally Convex Spaces, Operators on Hilbert Spaces, Banach Algebras, Basic  $C^*$ -Algebra Theory.

#### CONFERENCES AND SCHOOLS ATTENDED

# Conference on Functional Analysis and Related Topics

Feb 21-25, 2023

Indian Institute of Technology

Bombay, India

- · 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 Bangalore, India

International Centre for Theoretical Sciences

- · Place: Ramanujan Lecture Hall (ICTS) and Online
- · Website: https://www.icts.res.in/program/ETDS2022

## Baby Steps Beyond the Horizon - school for students

Institute of Mathematics Polish Academy of Science

Aug 29-Sep 02, 2022 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/

# IFCAM Summer School - Mathematical Aspects of Quantum Mechanics

Jun 1-12, 2022 Bangalore, India

Indian Institute of Science

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 Indian Statistical Institute

Jan 17-20, 2022 Bangalore, India

- · 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

· Place: Online mode

· Organisers: Indian Women and Mathematics

· Website: IWM-MiniCourse-2021

## Online Workshop on Algebraic Number Theory

Sep 2020

Assam University

Silchar, India

· Place: Online mode

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

#### TEACHING EXPERIENCE

## Teaching Assistant

Aug 2022 - Nov 2022

Indian Statistical Institute

Bangalore, India

· Course: Complex Analysis I (BMath III Year)

 $\cdot$  Instructor: Mathew Joseph

### Teaching Assistant

Jan 2022 - May 2022 Bangalore, India

Indian Statistical Institute

· Course: Functional Analysis I (MMath I Year)

· Instructor: Soumyashant Nayak

# Teaching Assistant

 $Indian\ Statistical\ Institute$ 

· Course: Optimization (BMath II Year)

 $\cdot$ Instructor: Soumyashant Nayak

Sep 2021 - Jan 2021 Bangalore, India