INDRAJIT GHOSH

Stat-Math Unit, Indian Statistical Institute ⋄ 8th Mile, Mysore Road ⋄ RVCE Post ⋄ Bangalore 560 059

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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.), *2013 - 2016*
Barasat Government College *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.
· 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

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

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-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
National Institute of Science Education and Research

Aug 04-06, 2022

Odisha, India

· Place: Online mode
· Website: https://www.niser.ac.in/etvna/

IFCAM Summer School - Mathematical Aspects of Quantum Mechanics
Indian Institute of Science

Jun 1-12, 2022

Bangalore, India

· Place: Indian Institute of Science, Bangalore
· Website: https://ifcam.sciencesconf.org/

Advanced Instructional School - Advanced Linear Algebra
Indian Statistical Institute

May 2022

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
Assam University

Sep 2020

Silchar, India

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

TEACHING EXPERIENCE

Teaching Assistant
Indian Statistical Institute

Aug 2022 - Nov 2022

Bangalore, India

· Course: Complex Analysis I (BMath III Year)
· Instructor: Mathew Joseph

Teaching Assistant
Indian Statistical Institute

Jan 2022 - May 2022

Bangalore, India

· Course: Functional Analysis I (MMath I Year)
· Instructor: Soumyashant Nayak

Teaching Assistant
Indian Statistical Institute

Sep 2021 - Jan 2021

Bangalore, India

- Course: Optimization (BMath II Year)
- Instructor: Soumyashant Nayak