

# Indrajit Ghosh | Curriculum Vitae

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## Education

**Stat-Math Unit, Indian Statistical Institute Bangalore**

*Philosophiae Doctorate in Mathematics*

**Bangalore, India**

*Jul 2019 – Present*

**Department of Pure Mathematics, University of Calcutta**

*Master of Science in Pure Mathematics*

**Kolkata, India**

*2016 – 2018*

**Barasat Government College**

*Bachelor of Science in Mathematics (Hons.)*

**Barasat, India**

*2013 – 2016*

## Research Interests

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

## Publication

- (Pre-print) *Algebraic aspects and functoriality of the set of affiliated operators* (with S. Nayak), **2023**, [arXiv:2311.16170](https://arxiv.org/abs/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

**Workshop on Completely Positive Maps**

*Indian Statistical Institute Bangalore*

**Bangalore, India**

*Jan 15 – Apr 29, 2024*

- Venue: Stat-Math Unit, ISI

- Website: [Click here](#)

**Young Mathematicians in Operator Algebras**

*Indian Statistical Institute Delhi*

**Delhi, India**

*Feb 27, 2024*

- Venue: Stat-Math Unit, ISI

- Website: <https://sites.google.com/view/ymoa/home>

- Abstract: [Click here](#)

**International Conference on Spectral and Approximation Theory**

*Cochin University of Science and Technology*

**Kerala, India**

*Nov 29, 2023*

- Venue: Department of Mathematics, CUSAT

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

- Abstract: [Click here](#)

## Teaching Experiences

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### Indian Statistical Institute Bangalore

Teaching Assistant

Bangalore, India

Jan 2024 – Present

- Course: [A Course in Harmonic Analysis \(B. Math III\)](#)
- Instructor: Soumyashant Nayak

### Indian Statistical Institute Bangalore

Teaching Assistant

Bangalore, India

Aug 01 – Nov 25, 2023

- Course: [Analysis of Several Variables \(B. Math II\)](#)
- Instructor: Mathew Joseph

### Indian Statistical Institute Bangalore

Teaching Assistant

Bangalore, India

Aug 2022 – Nov 2022

- Course: [Complex Analysis I \(B. Math III\)](#)
- Instructor: Mathew Joseph

### Indian Statistical Institute Bangalore

Teaching Assistant

Bangalore, India

Jan 2022 – Apr 2022

- Course: [Functional Analysis \(M. Math I\)](#)
- Instructor: Soumyashant Nayak

### Indian Statistical Institute Bangalore

Teaching Assistant

Bangalore, India

Sep 21 – Dec 23, 2021

- Course: [Optimization \(B. Math II\)](#)
- Instructor: Soumyashant Nayak

## Conferences and Workshops Attended

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### Young Mathematicians in Operator Algebras

Indian Statistical Institute Delhi

Delhi, India

Feb 26 – Mar 02, 2024

- Venue: Stat-Math Unit, ISI
- Website: <https://sites.google.com/view/ymoa/home>

### International Conference on Spectral and Approximation Theory

Cochin University of Science and Technology

Kerala, India

Nov 27 – 30, 2023

- Venue: Department of Mathematics, CUSAT
- Website: <https://sites.google.com/view/icsat-23/>

### Conference on Functional Analysis and Related Topics-2023

Indian Institute of Technology Bombay, India

Bombay, India

Feb 21 – 25, 2023

- Venue: Victor Menezes Convention Centre (VMCC), IIT Bombay
- Website: <https://sites.google.com/view/cfart-2023-iitb/>

### Tomita-Takesaki Modular Theory

Indian Statistical Institute, Bangalore, India

Bangalore, India

Jan 18 – Apr 26, 2023

- Venue: Stat-Math Unit, ISI
- Website: [Click here](#)

### Ergodic Theory and Dynamical Systems

International Centre for Theoretical Sciences

Bangalore, India

Dec 05 – 16, 2022

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

### Baby Steps Beyond the Horizon

Institute of Mathematics Polish Academy of Sciences

Warszawa, Poland

Aug 29 - Sep 02, 2022

○ Venue: Online

○ 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*

**Odisha, India**

*Aug 04 – 06, 2022*

○ Venue: Online

○ Website: <https://www.niser.ac.in/etvna>

**IFCAM - Mathematical Aspects of Quantum Mechanics**

*Indian Institute of Science Bangalore*

**Bangalore, India**

*Jun 01 – 12, 2022*

○ Venue: Math Dept., IISc

○ Website: <https://ifcam.sciencesconf.org/>

**Advanced Instructional School - Advanced Linear Algebra**

*Indian Statistical Institute Bangalore*

**Bangalore, India**

*May 09 – 28, 2022*

○ Venue: Stat-Math Unit, ISI

○ Website: <https://www.atmschools.org/school/2022/AIS/ala>

**Quantum Probability and Infinite Dimensional Analysis**

*Indian Statistical Institute Bangalore*

**Bangalore, India**

*Jan 17 – 20, 2022*

○ Venue: Stat-Math Unit, ISI

○ Website: <https://www.isibang.ac.in/statmath/conferences/QPIDA-2022.html>

**IWM Mini Course on Approximate Solutions of Operator Equations**

*Indian Women and Mathematics*

**India**

*Nov 2021*

○ Venue: Online

○ Website: [https://drive.google.com/file/d/1FYd-6j\\_hw0Mfc2Z9NIQiv2ZqSnF859J4/view](https://drive.google.com/file/d/1FYd-6j_hw0Mfc2Z9NIQiv2ZqSnF859J4/view)

**Online Workshop on Algebraic Number Theory**

*Assam University*

**Assam, India**

*Sep 2020*

○ Venue: Online

## References

- **Dr. Soumyashant Nayak**, Assistant Professor | Office A-14, Stat-Math Unit, Indian Statistical Institute Bangalore | [soumyashant@isibang.ac.com](mailto:soumyashant@isibang.ac.com)
- **Dr. Nisith Chandra Das**, Associate Professor | Department Of Mathematics, Barasat Govt. College, West Bengal, India | [dasnisith@gmail.com](mailto:dasnisith@gmail.com)
- **Dr. Atasi Deb Ray**, Associate Professor | Department Of Pure Mathematics, University of Calcutta | [adrpm@caluniv.ac.in](mailto:adrpm@caluniv.ac.in)