Indrajit Ghosh | Curriculum Vitae

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Education

Stat-Math Unit, Indian Statistical Institute Bangalore — **Bangalore, India**
Philosophiae Doctorate in Mathematics — *Jul 2019 – Present*

Department of Pure Mathematics, University of Calcutta — **Kolkata, India**
Master of Science in Pure Mathematics — *2016 – 2018*

Barasat Government College — **Barasat, India**
Bachelor of Science in Mathematics (Hons.) — *2013 – 2016*

Research Interests

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

Publications

○ **I. Ghosh**, S. Nayak; *Affiliated operators for monotone σ-complete C^*-algebras*, pre-print, under preparation, 2025 .

○ **I. Ghosh**, S. Nayak; *Algebraic aspects and functoriality of the set of affiliated operators*, International Mathematics Research Notices, Volume 2024, Issue 21, Nov 2024, Pages 13525-13562.
[DOI], [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

PDF-RS Annual Symposium 2025 — **Bangalore, India**
Indian Statistical Institute Bangalore — *Jan 29, 2025*
○ Venue: Platinum Jubilee Auditoriam, ISI
○ Website: Click here
○ Abstract: Click here

Workshop on Completely Positive Maps — **Bangalore, India**
Indian Statistical Institute Bangalore — *Jan 15 – Jun 04, 2024*
○ Venue: Stat-Math Unit, ISI
○ Website: Click here

Young Mathematicians in Operator Algebras — **Delhi, India**
Indian Statistical Institute Delhi — *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 — **Kerala, India**
Cochin University of Science and Technology — *Nov 29, 2023*
○ Venue: Department of Mathematics, CUSAT
○ Website: https://sites.google.com/view/icsat-23/
○ Abstract: Click here

Teaching Experiences

Indian Statistical Institute Bangalore   **Bangalore, India**
Teaching Assistant   *Jan 01, 2025 – Present*
- Course: `Optimization (B. Math III)`
- Instructor: Soumyashant Nayak

Indian Statistical Institute Bangalore   **Bangalore, India**
Teaching Assistant   *Jan 2024 – Apr 2024*
- Course: `A Course in Harmonic Analysis (B. Math III)`
- Instructor: Soumyashant Nayak

Indian Statistical Institute Bangalore   **Bangalore, India**
Teaching Assistant   *Aug 01 – Nov 25, 2023*
- Course: `Analysis of Several Variables (B. Math II)`
- Instructor: Mathew Joseph

Indian Statistical Institute Bangalore   **Bangalore, India**
Teaching Assistant   *Aug 2022 – Nov 2022*
- Course: `Complex Analysis I (B. Math III)`
- Instructor: Mathew Joseph

Indian Statistical Institute Bangalore   **Bangalore, India**
Teaching Assistant   *Jan 2022 – Apr 2022*
- Course: `Functional Analysis (M. Math I)`
- Instructor: Soumyashant Nayak

Indian Statistical Institute Bangalore   **Bangalore, India**
Teaching Assistant   *Sep 21 – Dec 23, 2021*
- Course: `Optimization (B. Math II)`
- Instructor: Soumyashant Nayak

Conferences and Workshops Attended

Noncommutative Mathematics and Applications (NCMA)   **Bangalore, India**
Indian Statistical Institute Bangalore   *Oct 24 – 26, 2024*
- Venue: Stat-Math Unit, ISI
- Website: https://www.isibang.ac.in/~jay/NC/NC.html

Young Mathematicians in Operator Algebras   **Delhi, India**
Indian Statistical Institute Delhi   *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   **Kerala, India**
Cochin University of Science and Technology   *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   **Bombay, India**
Indian Institute of Technology 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   **Bangalore, India**
Indian Statistical Institute, Bangalore, India   *Jan 18 – Apr 26, 2023*
- Venue: Stat-Math Unit, ISI
- Website: Click here

Ergodic Theory and Dynamical Systems   **Bangalore, India**
International Centre for Theoretical Sciences   *Dec 05 – 16, 2022*
- Venue: Ramanujan Lecture Hall (ICTS) and Online
- Website: https://www.icts.res.in/program/ETDS2022

Baby Steps Beyond the Horizon   **Warszawa, Poland**
Institute of Mathematics Polish Academy of Sciences   *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 **Odisha, India**

National Institute of Science Education and Research *Aug 04 – 06, 2022*
- Venue: Online
- Website: https://www.niser.ac.in/etvna

IFCAM - Mathematical Aspects of Quantum Mechanics **Bangalore, India**

Indian Institute of Science Bangalore *Jun 01 – 12, 2022*
- Venue: Math Dept., IISc
- Website: https://ifcam.sciencesconf.org/

Quantum Probability and Infinite Dimensional Analysis **Bangalore, India**

Indian Statistical Institute Bangalore *Jan 17 – 20, 2022*
- Venue: Stat-Math Unit, ISI
- Website: https://www.isibang.ac.in/ statmath/conferences/QPIDA-2022.html

References

- **Prof. Soumyashant Nayak**, *Assistant Professor* | Office A-14, Stat-Math Unit, Indian Statistical Institute Bangalore | soumyashant@isibang.ac.com
- **Prof. B.V. Rajarama Bhat**, *Professor* | Stat-Math Unit, Indian Statistical Institute Bangalore | bvrajaramabhat@gmail.com
- **Prof. Nisith Chandra Das**, *Associate Professor* | Department Of Mathematics, Barasat Govt. College, West Bengal, India | dasnisith@gmail.com
- **Prof. Atasi Deb Ray**, *Associate Professor* | Department Of Pure Mathematics, University of Calcutta | adrpm@caluniv.ac.in