

Indrajit Ghosh | Curriculum Vitae

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Education

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

Research Interests

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

Publications

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

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 <i>Indian Statistical Institute Bangalore</i>	Bangalore, India <i>Jan 29, 2025</i>
◦ Venue: Platinum Jubilee Auditorium, ISI	
◦ Website: Click here	
◦ Abstract: Click here	

Workshop on Completely Positive Maps

Indian Statistical Institute Bangalore

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

Bangalore, India
Jan 15 – Jun 04, 2024

Young Mathematicians in Operator Algebras

Indian Statistical Institute Delhi

- Venue: Stat-Math Unit, ISI
- Website: <https://sites.google.com/view/ymoa/home>
- Abstract: [Click here](#)

Delhi, India
Feb 27, 2024

International Conference on Spectral and Approximation Theory

Cochin University of Science and Technology

- Venue: Department of Mathematics, CUSAT
- Website: <https://sites.google.com/view/icsat-23/>
- Abstract: [Click here](#)

Kerala, India
Nov 29, 2023

Teaching Experiences

Indian Statistical Institute Bangalore

Teaching Assistant

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

Bangalore, India
Jan 01 – Apr 15, 2025

Indian Statistical Institute Bangalore

Teaching Assistant

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

Bangalore, India
Jan 2024 – Apr 2024

Indian Statistical Institute Bangalore

Teaching Assistant

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

Bangalore, India
Aug 01 – Nov 25, 2023

Indian Statistical Institute Bangalore

Teaching Assistant

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

Bangalore, India
Aug 2022 – Nov 2022

Indian Statistical Institute Bangalore

Teaching Assistant

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

Bangalore, India
Jan 2022 – Apr 2022

Indian Statistical Institute Bangalore

Teaching Assistant

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

Bangalore, India
Sep 21 – Dec 23, 2021

Conferences and Workshops Attended

- Noncommutative Mathematics and Applications (NCMA)**
Indian Statistical Institute Bangalore
○ Venue: Stat-Math Unit, ISI
○ Website: <https://www.isibang.ac.in/~jay/NC/NC.html>
Bangalore, India
Oct 24 – 26, 2024
- Young Mathematicians in Operator Algebras**
Indian Statistical Institute Delhi
○ Venue: Stat-Math Unit, ISI
○ Website: <https://sites.google.com/view/ymoa/home>
Delhi, India
Feb 26 – Mar 02, 2024
- International Conference on Spectral and Approximation Theory**
Cochin University of Science and Technology
○ Venue: Department of Mathematics, CUSAT
○ Website: <https://sites.google.com/view/icsat-23/>
Kerala, India
Nov 27 – 30, 2023
- Conference on Functional Analysis and Related Topics-2023**
Indian Institute of Technology Bombay, India
○ Venue: Victor Menezes Convention Centre (VMCC), IIT Bombay
○ Website: <https://sites.google.com/view/cfart-2023-iitb/>
Bombay, India
Feb 21 – 25, 2023
- Tomita-Takesaki Modular Theory**
Indian Statistical Institute, Bangalore, India
○ Venue: Stat-Math Unit, ISI
○ Website: [Click here](#)
Bangalore, India
Jan 18 – Apr 26, 2023
- Ergodic Theory and Dynamical Systems**
International Centre for Theoretical Sciences
○ Venue: Ramanujan Lecture Hall (ICTS) and Online
○ Website: <https://www.icts.res.in/program/ETDS2022>
Bangalore, India
Dec 05 – 16, 2022
- Baby Steps Beyond the Horizon**
Institute of Mathematics Polish Academy of Sciences
○ Venue: Online
○ Website: <https://www.impan.pl/en/activities/banach-center/conferences/22-babysteps>
Warszawa, Poland
Aug 29 - Sep 02, 2022
- A Conference on Ergodic Theory and von-Neumann Algebra**
National Institute of Science Education and Research
○ Venue: Online
○ Website: <https://www.niser.ac.in/etvna>
Odisha, India
Aug 04 – 06, 2022
- IFCAM - Mathematical Aspects of Quantum Mechanics**
Indian Institute of Science Bangalore
○ Venue: Math Dept., IISc
○ Website: <https://ifcam.sciencesconf.org/>
Bangalore, India
Jun 01 – 12, 2022
- Quantum Probability and Infinite Dimensional Analysis**
Indian Statistical Institute Bangalore
○ Venue: Stat-Math Unit, ISI
○ Website: <https://www.isibang.ac.in/statmath/conferences/QPIDA-2022.html>
Bangalore, India
Jan 17 – 20, 2022

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