

Indrajit Ghosh | Curriculum Vitae

8th Mile Mysore Road, RVCE Post – Bangalore 560 059, India

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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

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

Workshop on Completely Positive Maps

Indian Statistical Institute Bangalore

Bangalore, India

Jan 15 – Jun 04, 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
<i>Teaching Assistant</i> | Bangalore, India
<i>Jan 2024 – Present</i> |
| <ul style="list-style-type: none"> ○ Course: A Course in Harmonic Analysis (B. Math III) ○ Instructor: Soumyashant Nayak | |
| Indian Statistical Institute Bangalore
<i>Teaching Assistant</i> | Bangalore, India
<i>Aug 01 – Nov 25, 2023</i> |
| <ul style="list-style-type: none"> ○ Course: Analysis of Several Variables (B. Math II) ○ Instructor: Mathew Joseph | |
| Indian Statistical Institute Bangalore
<i>Teaching Assistant</i> | Bangalore, India
<i>Aug 2022 – Nov 2022</i> |
| <ul style="list-style-type: none"> ○ Course: Complex Analysis I (B. Math III) ○ Instructor: Mathew Joseph | |
| Indian Statistical Institute Bangalore
<i>Teaching Assistant</i> | Bangalore, India
<i>Jan 2022 – Apr 2022</i> |
| <ul style="list-style-type: none"> ○ Course: Functional Analysis (M. Math I) ○ Instructor: Soumyashant Nayak | |
| Indian Statistical Institute Bangalore
<i>Teaching Assistant</i> | Bangalore, India
<i>Sep 21 – Dec 23, 2021</i> |
| <ul style="list-style-type: none"> ○ Course: Optimization (B. Math II) ○ Instructor: Soumyashant Nayak | |

Conferences and Workshops Attended

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| Noncommutative Mathematics and Applications (NCMA)
<i>Indian Statistical Institute Bangalore</i> | Bangalore, India
<i>Oct 24 – 26, 2024</i> |
| <ul style="list-style-type: none"> ○ Venue: Stat-Math Unit, ISI ○ Website: https://www.isibang.ac.in/~jay/NC/NC.html | |
| Young Mathematicians in Operator Algebras
<i>Indian Statistical Institute Delhi</i> | Delhi, India
<i>Feb 26 – Mar 02, 2024</i> |
| <ul style="list-style-type: none"> ○ Venue: Stat-Math Unit, ISI ○ Website: https://sites.google.com/view/ymoa/home | |
| International Conference on Spectral and Approximation Theory
<i>Cochin University of Science and Technology</i> | Kerala, India
<i>Nov 27 – 30, 2023</i> |
| <ul style="list-style-type: none"> ○ Venue: Department of Mathematics, CUSAT ○ Website: https://sites.google.com/view/icsat-23/ | |
| Conference on Functional Analysis and Related Topics-2023
<i>Indian Institute of Technology Bombay, India</i> | Bombay, India
<i>Feb 21 – 25, 2023</i> |
| <ul style="list-style-type: none"> ○ Venue: Victor Menezes Convention Centre (VMCC), IIT Bombay ○ Website: https://sites.google.com/view/cfart-2023-iitb/ | |
| Tomita-Takesaki Modular Theory
<i>Indian Statistical Institute, Bangalore, India</i> | Bangalore, India
<i>Jan 18 – Apr 26, 2023</i> |

- 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

Online Workshop on Algebraic Number Theory

Assam University

Assam, India

Sep 2020

- Venue: Online

References

- **Prof. Soumyashant Nayak**, *Assistant Professor* | Office A-14, Stat-Math Unit, Indian Statistical Institute Bangalore | soumyashant@isibang.ac.in
- **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