

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](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 <i>Indian Statistical Institute Bangalore</i>	Bangalore, India <i>Jan 15 – Jun 04, 2024</i>
◦ Venue: Stat-Math Unit, ISI	
◦ Website: Click here	
Young Mathematicians in Operator Algebras <i>Indian Statistical Institute Delhi</i>	Delhi, India <i>Feb 27, 2024</i>
◦ Venue: Stat-Math Unit, ISI	
◦ Website: https://sites.google.com/view/ymoa/home	
◦ Abstract: Click here	
International Conference on Spectral and Approximation Theory <i>Cochin University of Science and Technology</i>	Kerala, India <i>Nov 29, 2023</i>

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

Teaching Experiences

Indian Statistical Institute Bangalore <i>Teaching Assistant</i>	Bangalore, India <i>Jan 2024 – Present</i>
○ 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>
○ 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>
○ 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>
○ 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>
○ Course: Optimization (B. Math II)	
○ Instructor: Soumyashant Nayak	

Conferences and Workshops Attended

Noncommutative Mathematics and Applications (NCMA) <i>Indian Statistical Institute Bangalore</i>	Bangalore, India <i>Oct 24 – 26, 2024</i>
○ 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>
○ 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>
○ 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>
○ 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

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