CURRICULUM VITAE

Personal Information

Name:	Surajit Biswas
Date of Birth:	30 July 1990
Citizenship:	Indian
Office Address:	Department of Mathematics, National Institute of Technology Durgapur, Durgapur-713209, West Bengal, India
Email:	sbiswas.maths@nitdgp.ac.in

Employment

March 2026–Present Assistant Professor Grade-II (On contract), NIT Durgapur, India

Education

2018–2023 PhD in Mathematics, Ramakrishna Mission Vidyamandira, Belur Math, Howrah
Thesis title: *Some Aspects of Ramsey Theory*
Supervisor: *Prof. Kartick Chandra Pal*

2011–2013 MSc in Mathematics, Vivekananda University, Belur Math, Howrah
Project topic: *Some problems in Riemannian Geometry*
Project Supervisor: *Prof. Kingshook Biswas*

2008–2011 BSc in Mathematics (General Subjects: Statistics and Computer Science), Ramakrishna Mission Vidyamandira, Belur Math, Howrah

Research Interests

Operator Algebras; Noncommutative Geometry; Ramsey Theory

Publications

Published Papers

1. Classification of C^*-algebras of twisted isometries with finite dimensional wandering spaces (with Shreema Subhash Bhatt and Bipul Saurabh), *Ann. Funct. Anal.* **17**, 49 (2026)
2. Dimensional invariants of metrizable profinite groups and a kernel-degenerate spectral triple for the p-adic integers (with Bipul Saurabh), *Journal of Geometry and Physics*, Volume 225, 2026, 105845
3. Large sets near idempotent and its product (with Sourav Kanti Patra), *Semigroup Forum* **106** (2023), no.2, 368–393
4. D-sets in arbitrary semigroup (with Bedanta Bose and Sourav Kanti Patra), *Topology and its Applications* **282** (2020), 107329, 16pp

Preprints

1. Topological invariance of quantum homogeneous spaces of type B and D (with Akshay Bhuva and Bipul Saurabh), *arXiv:2406.19074v2*, 2026

Research Experience

July 2025–March 2026	Postdoctoral Fellow, Department of Mathematics, SRM University AP PI: Prof. Manab Kundu
November 2024–July 2025	Research Associate, Department of Mathematics, IIIT Delhi PI: Prof. Prahllad Deb
August 2023–November 2024	Postdoctoral Fellow, Department of Mathematics, IIT Gandhinagar PI: Prof. Bipul Saurabh, Prof. Projesh Nath Choudhury
15 January–14 June 2022	Project Associate, Department of Mathematics, IIT Chennai Supervisor: Prof. Kunal Krishna Mukherjee
2013–2017	Research Fellow in Mathematics, Institute of Mathematical Sciences, Chennai Research Topic: *Operator Algebra, Noncommutative Geometry* Supervisor: Prof. Partha Sarathi Chakraborty
11 June–6 July 2012	**VSRP** (Visiting Students Research Programme) at Tata Institute of Fundamental Research, Mumbai Topic: CW *structure on* $U(n)$ *using Morse theory* Supervisor: Prof. Yogish I. Holla

Fellowships/Awards

2018	**SET** (State Eligibility Test)
2013	Research Fellowship at Institute of Mathematical Sciences, Chennai
2012	**NET** (National Eligibility Test) CSIR-UGC Fellowship (JRF)
2011	**NBHM** (National Board of Higher Mathematics) Fellowship in MSc
2008	**INSPIRE** Fellowship in BSc
2008	State Government Scholarship in BSc

Seminar/Conference Talks

March 2026	'*Crystallization of the quantum homogeneous spaces* $SO_q(n)/SO_q(n-2)$ *and their representation theory*,' Ganit Symposium on Quantum Groups, organized by the Department of Mathematics at IIT Gandhinagar
November, 2024	'*Some Noncommutative Invariants for Compact Vilenkin Groups*,' Invited talk at TCG Crest, Kolkata
September, 2023	'K*-theory for* p*-adic integers*,' Poster presentation, IIT Gandhinagar
August, 2023	'*Spectral dimension of* p*-adic integers*,' Analysis and Geometry Seminar, IIT Gandhinagar
December, 2022	'*Some large sets near idempotent and its Cartesian product*,' **MSAST 2022** (Mathematical Sciences for Advancement of Science and Technology), organized by the Institute IMBIC, India
March, 2022	'*Cartesian product of some large sets near idempotent*,' **RAMA-2022** (National Webinar on Recent Advances in Mathematics and its Applications), organized by Department of Pure Mathematics, University of Calcutta

Seminar/Conference/Symposium Participations

5–7 March 2026	Ganit Symposium on Quantum Groups, organized by the Department of Mathematics at IIT Gandhinagar
10–14 November 2025	**SOHA 2025** (Symposium on Operators in Harmonic Analysis), organised by the Department of Mathematics at SRM University AP
21–23 December 2022	**MSAST 2022** (Mathematical Sciences for Advancement of Science and Technology), organized by the Institute IMBIC, India
10–11 March 2022	**RAMA-2022** (National Webinar on Recent Advances in Mathematics and its Applications), organized by Department of Pure Mathematics, University of Calcutta
1–12 January 2019	Topological Dynamics, Number Theory and related areas at Ramakrishna Mission Vivekananda Educational and Research Institute, Belur Math, Howrah
August–November 2018	An Introduction to Ergodic Ramsey theory (a course offered by Prof. Dibyendu De), University of Kalyani, West Bengal
1–21 February 2016	Advanced Instructional Schools in Operator Theory/Algebra at Institute of Mathematical Sciences, Chennai
9–19 December 2014	**OTOA** (Recent Advances in Operator Theory and Operator Algebras) at Indian Statistical Institute(ISI), Bangalore

Teaching Experience

- **At SRM University AP:**

August–November 2025	Teaching Assistant in the course *Calculus for Engineers (FIC103)* for first-year B.Tech

- **At IIT Gandhinagar:**

August–October 2024	Tutor in the course *Calculus of Several Variables (MA205)* for B.Tech
January–April 2024	Tutor in the course *Introduction to Differential Geometry (MA629)* for MSc
September–December 2023	Tutor in the course *Calculus of Single Variable and Linear Algebra (MA103)* for B.Tech

- **At Ramakrishna Mission Vidyamandira, Belur Math:**

September 2021–January 2022	*Coordinate Geometry*, for UG-I and UG-II (General)
April–July 2021	*Real Analysis II*, for PG-I
November 2020–February 2021	*Coordinate Geometry*, for UG-I and UG-II (General)
March–May 2020	*Fourier Series*, for PG-I
January–May 2020	*Application of Calculus*, for UG-II (Honours)
September–November 2019	*Differential Equations I*, for UG-I (Honours)
July–August 2019	*Analysis II*, for UG-II (Honours)
January–April 2019	*Engineering Mathematics I*, for PG I (Applied Chemistry)

Languages

Bengali:	Mother tongue
English:	Fluent
Hindi:	Basic knowledge