

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, 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. [On Quotient Spaces of Quantized Special Orthogonal Groups and their Topological Invariance](#) (with Akshay Bhuva and Bipul Saurabh), *Math. Phys. Anal. Geom.* **29** (2026), 33.
2. [Classification of \$C^*\$ -algebras of twisted isometries with finite dimensional wandering spaces](#) (with Shreema Subhash Bhatt and Bipul Saurabh), *Ann. Funct. Anal.* **17** (2026), 49.
3. [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* **225** (2026), 105845.
4. [Large sets near idempotent and its product](#) (with Sourav Kanti Patra), *Semigroup Forum* **106** (2023), no. 2, 368–393.
5. [D-sets in arbitrary semigroup](#) (with Bedanta Bose and Sourav Kanti Patra), *Topology and its Applications* **282** (2020), 107329, 16 pp.

Preprints

1. [Crystallization of the quantum Stiefel manifolds \$SO_q\(2n+1\)/SO_q\(2n-1\)\$](#) (with Vinay Deshpande and Bipul Saurabh), *arXiv:2610.10377*, 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. Prahlad Deb
August 2023–November 2024	Postdoctoral Fellow, Department of Mathematics, IIT Gandhinagar PIs: Prof. Bipul Saurabh, Prof. Projesh Nath Choudhury
15 January–14 June 2022	Project Associate, Department of Mathematics, IIT Madras SUPERVISOR: Prof. Kunal Krishna Mukherjee
2013–2017	Research Fellow in MATHEMATICS, Institute of Mathematical Sciences, Chennai RESEARCH TOPIC: <i>Operator Algebra, Noncommutative Geometry</i> SUPERVISOR: Prof. Partha Sarathi Chakraborty
11 June–6 July 2012	VSRP (Visiting Students' Research Programme) at Tata Institute of Fundamental Research, Mumbai TOPIC: <i>CW structure on $U(n)$ using Morse theory</i> SUPERVISOR: Prof. Yogish I. Holla

FELLOWSHIPS, SCHOLARSHIPS AND QUALIFICATIONS

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

TALKS AND POSTER PRESENTATIONS

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 the Department of Pure Mathematics, University of Calcutta

PARTICIPATION IN SEMINARS, CONFERENCES AND SYMPOSIA

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), organized 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 the 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 the 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 students

- **At IIT Gandhinagar:**

August–October 2024 Tutor in the course *Calculus of Several Variables (MA205)* for B.Tech students

January–April 2024 Tutor in the course *Introduction to Differential Geometry (MA629)* for MSc students

September–December 2023 Tutor in the course *Calculus of Single Variable and Linear Algebra (MA103)* for B.Tech students

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

September 2021–January 2022 *Coordinate Geometry* for UG-I and UG-II (General) students

April–July 2021 *Real Analysis II* for PG-I students

November 2020–February 2021 *Coordinate Geometry* for UG-I and UG-II (General) students

March–May 2020 *Fourier Series* for PG-I students

January–May 2020 *Application of Calculus* for UG-II (Honours) students

September–November 2019 *Differential Equations I* for UG-I (Honours) students

July–August 2019 *Analysis II* for UG-II (Honours) students

January–April 2019 *Engineering Mathematics I* for PG-I (Applied Chemistry) students

LANGUAGES

BENGALI: Mother tongue

ENGLISH: Fluent

HINDI: Basic knowledge