

## Suvrajit Bhattacharjee, Postdoctoral fellow

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### *Contact Information:*

- Matematicko-Fyzikální Fakulta,  
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Czech Republic.
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- <https://suvrajitbhattacharjee.github.io/>

### *Research Interests:*

- Quantum Groups and Noncommutative Geometry

### *Education:*

- Indian Statistical Institute, Kolkata  
Ph.D. in Mathematics, December, 2020  
Dissertation Topic: Quantum Symmetries in Noncommutative Geometry  
Advisor: Prof. Debashish Goswami
- Ramakrishna Mission Vivekananda University  
M.Sc. in Mathematics, June, 2015  
CGPA: 9.06
- University of Calcutta  
B.Sc. in Mathematics, June, 2013  
First-Class Honours

### *Employment:*

- Mathematical Institute of Charles University, Prague, Czech Republic,  
Postdoc as part of the PRIMUS grant “Spectral noncommutative geometry  
of quantum flag manifolds” held by Dr. Réamonn Ó Buachalla,  
April, 2022 – present.
- Indian Institute of Science Education and Research, Kolkata, India,  
National Postdoctoral Fellowship, Science and Engineering Research Board,  
India,  
December, 2021 – February, 2022.
- Indian Statistical Institute, Kolkata, India,  
Visiting Scientist, sponsored by J.C. Bose fellowship of Prof. Debashish  
Goswami,  
January, 2021 – November, 2021.
- Institute of Mathematics, Polish Academy of Sciences, Warsaw, Poland,  
Adjunct Professor, (Postdoc),  
October, 2020 – September, 2022 (couldn’t join due to travel restrictions  
caused by the pandemic).

*Publications and Preprints:*

- Anshu, Bhattacharjee, S., Rahaman, A., Roy, S., “Anyonic quantum symmetries of finite spaces”, arXiv preprint math.QA/2207.08153, 2022.
- Bhattacharjee, S., Joardar, S., Roy, S., “Braided quantum symmetries of graph  $C^*$ -algebras”, arXiv preprint math.OA/2201.09885, 2022.
- Bhattacharjee, S., Joardar, S., Mukhopadhyay, S., “Levi-Civita connections from toral actions”, J. Geom. Phys., Vol. 181, 2022.
- Bhattacharjee, S., Chirvasitu, A., Goswami, D., “Quantum Galois groups of subfactors”, Internat. J. Math., Vol. 33, 2022.
- Bhattacharjee, S., Biswas, I., Goswami, D., “Generalized symmetry in noncommutative (complex) geometry”, J. Geom. Phys., Vol. 166, 2021.
- Bhattacharjee, S., Goswami, D., “Hopf coactions on odd spheres”, J. Algebra, Vol. 539, 2019.

*Teaching Experience:*

- Fall 2019, Teaching Assistant, Riemannian Geometry.
- Fall 2018, Teaching Assistant, Linear Algebra.
- Spring 2018, Teaching Assistant, Lie Groups and Lie Algebras.

*Honours and Awards:*

- 2021-2023, Science and Engineering Research Board, India, National Post-doctoral Fellowship.
- 2021-2023, National Board for Higher Mathematics, Postdoctoral Fellowship.
- 2021-2023, Indian Institute of Science Education and Research, Postdoctoral Fellowship.
- 2015–2020, Indian Statistical Institute, Ph.D. Fellowship.
- 2015–2020, National Board for Higher Mathematics, Ph.D. Scholarship.
- 2015–2020, Council of Scientific and Industrial Research, Ph.D. Scholarship.
- 2013–2015, National Board for Higher Mathematics, M.Sc. Scholarship.

*Talks:*

- An introduction to (braided) quantum groups, Inter IISER-NISER Math meet, Indian Institute of Science Education and Research, Kolkata. (June, 2022)
- Kasparov product and its properties, Malý Seminar, Prague. (April, 2022)
- Braided quantum symmetries of graph  $C^*$ -algebras, NCG&T Seminar, Prague. (April, 2022)
- Kasparov modules and constructions, Malý Seminar, Prague. (April, 2022)

- Braided quantum symmetries of graph  $C^*$ -algebras, Quantum Groups Seminar, Copenhagen. (March, 2022)
- Quantum Groups, Indian Institute of Science Education and Research, Kolkata. (February, 2020)
- Hopf Algebroids in Noncommutative Geometry, Noncommutative Geometry and Its Applications @ NISER, National Institute of Science Education and Research, Bhubaneswar. (January, 2020)
- Generalized Symmetry in Noncommutative Complex Geometry, Quantum flag manifolds, Charles University, Prague. (September, 2019)
- Hopf Algebroids, Graduate seminar, Indian Statistical Institute, Kolkata. (April, 2019)
- Quantum Symmetry, Graduate seminar, Indian Statistical Institute, Kolkata. (April, 2018)
- Hopf Coactions on Commutative Algebras, Graduate seminar, Indian Statistical Institute, Kolkata. (March, 2017)
- Algebraic Groups and Hopf Algebras, Graduate seminar, Indian Statistical Institute, Kolkata. (September, 2016)
- Infinite Galois Theory, Graduate seminar, Indian Statistical Institute, Kolkata. (January, 2016)

*Workshops and Conferences Attended:*

- Noncommutative Geometry and Its Applications @ NISER, National Institute of Science Education and Research, Bhubaneswar. (January, 2020)
- KBS Fest, Indian Statistical Institute, Bangalore. (December, 2019)
- Quantum Flag Manifolds, Charles University, Prague. (September, 2019)
- Recent Advances in Operator Theory and Operator Algebras, Indian Statistical Institute, Bangalore. (December, 2018)
- International Conference on Non-commutative Geometry, S. N. Bose National Centre for Basic Sciences, Kolkata. (November, 2018)
- Conference on Quantum Groups and Non-commutative Geometry, National Institute of Science Education and Research, Bhubaneswar. (January, 2018)
- CIMPA Research School on Recent Trends in Non-commutative Algebras, Indian Institute of Science Education and Research, Pune. (June, 2017)

*Academic Visits:*

- Prof. Adam Skalski, Institute of Mathematics, Polish Academy of Sciences, Warsaw. (August, 2022)
- Dr. Réamonn Ó Buachalla, Mathematical Institute, Charles University, Prague. (March, 2022)

- Dr. Soumalya Joardar, Indian Institute of Science Education and Research, Kolkata. (February, 2020)
- Dr. Sutanu Roy, National Institute of Science Education and Research, Bhubaneswar. (April, 2018; November, 2019)
- Prof. Arup Pal, Indian Statistical Institute, Delhi. (January, 2018)
- Prof. Indranil Biswas, Tata Institute of Fundamental Research, Mumbai. (November, 2017)

*References:*

- Prof. Debashish Goswami, Stat Math Unit, Indian Statistical Institute, 203 B.T. Road, Kolkata - 700108, India, goswamid@isical.ac.in
- Prof. Indranil Biswas, School of Mathematical Sciences, Tata Institute of Fundamental Research, 1 Homi Bhabha Road, Colaba, Mumbai - 400005, India, indranil@math.tifr.res.in
- Dr. Réamonn Ó Buachalla, Mathematical Institute, Charles University, Sokolovská 49/83, 18 675 Prague 8, Czech Republic, obuachalla@karlin.mff.cuni.cz
- Dr. Jyotishman Bhowmick, Stat Math Unit, Indian Statistical Institute, 203 B.T. Road, Kolkata - 700108, India, jyotishmanb@isical.ac.in
- Dr. Sutanu Roy, School of Mathematical Sciences, National Institute of Science Education and Research, Bhubaneswar, P.O. Bhimpur-Padanpur, Khurda, Odisha - 752050, India, sutanu@niser.ac.in