Suvrajit Bhattacharjee, Postdoctoral fellow

Contact Information:

- Matematicko-Fyzikální Fakulta,
  Univerzita Karlova,
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  Czech Republic.
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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,
  March, 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, 2021 (couldn't join due to travel restrictions caused by the pandemic).

Publications and Preprints:

- Bhattacharjee, S., Joardar, S., Roy, S., "Braided quantum symmetries of graph C*-algebras", arXiv preprint math.OA/2201.09885, 2022.
- Bhattacharjee, S., Chirvasitu, A., Goswami, D., "Quantum Galois groups of subfactors", Internat. J. Math., Vol. 33, 2022.
- Bhattacharjee, S., Joardar, S., Mukhopadhyay, S., "Levi-Civita connections from toral actions", arXiv preprint math.QA/2104.07570, 2021.
- 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, pp. 305-325, 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 Postdoctoral 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:

- 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, Bhubaneshwar. (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, Bhubaneshwar. (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, Bhubaneshwar. (January, 2018)
- CIMPA Research School on Recent Trends in Non-commutative Algebras, Indian Institute of Science Education and Research, Pune. (June, 2017)

Academic Visits:

- Dr. Soumalya Joardar, Indian Institute of Science Education and Research, Kolkata. (February, 2020)
- Dr. Sutanu Roy, National Institute of Science Education and Research, Bhubaneshwar. (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,
- Dr. Jyotishman Bhowmick, Stat Math Unit, Indian Statistical Institute, 203 B.T. Road, Kolkata - 700108, India, jyotishmanb@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. 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