Dr. Shankar P

CONTACT INFORMATION

Present Address
Assistant Professor,
Department of Mathematics,
Cochin University of Science and Technology,
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No.13, Main Street,
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RESEARCH INTERESTS

Functional analysis, Operator algebras and Operator theory.

EXPERIENCE

- Assistant Professor
  at **Cochin University of Science And Technology**, Ernakulam.
  January 2021 - Present.
- NBHM Post-doctoral Fellow
  at **Indian Statistical Institute**, Bangalore.
  July 2019 - January 2021.
- Visiting Scientist
  at **Indian Statistical Institute**, Bangalore.
  February 2018 to June 2019.

EDUCATION

- **Kerala School of Mathematics**, Kozhikode
  Ph.D., Mathematics
  Thesis titled "A Study of hyperrigid operator systems in C*-algebras"
  Degree Awarded 10th October 2018
- **Pondicherry University**, Puducherry
  M.Sc., Mathematics
  CGPA : 9.94/10
  2012
- **Sacred Heart College**, Tirupattur
  B.Sc., Mathematics
  Aggregate : 73.75
  Aggregate in Mathematics : 91.01
  2009

HONOURS AND ACHIEVEMENTS

- Awarded NBHM post-doctoral fellowship in 2019.
- Awarded CSIR research fellowship in 2012.
- Received a Gold Medal in M.Sc., Mathematics.

PUBLICATIONS

1. C.S. Arunkumar, P. Shankar, and A.K. Vijayarajan, *Boundary representations and rectangular hyperrigidity*, Banach J. Math. Anal. **15** (2021), no. 2, 38.
2. P. Shankar and A. K. Vijayarajan, *Hilbert modules characterization for weak hyperrigid operator systems*, J. Anal. **28** (2020), 905-912.
3. P. Shankar, *Hyperrigid generators in C^*-algebras*, J. Anal. **28** (2020), 791-797.

4. M. N. N. Namboodiri, S. Pramod, P. Shankar and A. K. Vijayarajan, *Quasi hyperrigidity and weak peak points for non-commutative operator systems*, Proc. Indian Acad. Sci. Math. Sci. **128** (2018), no. 5, 128:66.

5. P. Shankar and A. K. Vijayarajan, *Tensor products of hyperrigid operator systems*, Ann. Funct. Anal. **9** (2018), no.3, 369-375.

6. S. Pramod, P. Shankar and A. K. Vijayarajan, *Separating and quasi hyperrigid operator systems in C*-algebras*, Tbilisi Math. J. **10** (2017), no. 4, 55-61.

7. P. Shankar and A. K. Vijayarajan, *Hyperrigid operator systems and Hilbert modules*, Ann. Funct. Anal. **8** (2017), no. 1, 133-141.

Preprints

1. Sandipan De, Shankar P, Jaydeb Sarkar, and Sankar T. R, *Pairs of projections and commuting isometries*, communicated, arXiv:2008.12322v1, (2020).

2. P. Muthukumar and P. Shankar, *Multiplication operators between discrete Hardy spaces on rooted trees*, Communicated, arXiv:2004.03833v1, (2020).

Invited Talks in Conferences and Workshops

- *The non-commutative analogue of Korovkin's sets and peak points* in "Symposium on Geometry of Banach Spaces" held at Indian Institute of Technology, Hyderabad, India (December 01-02, 2019).

Presentations in Conferences and Workshops

- *Weak hyperrigidity and Hilbert modules* in "34 th Annual Conference of the Ramanujan Mathematical Society" held at Pondicherry University, Puducherry, India (August 01-03, 2019).
- *Hyperrigid generators in C^*-algebras* in "Recent Advances in Operator Theory and Operator Algebras" held at Indian Statistical Institute, Bangalore, India (December 13-19, 2018).

Workshops and Conferences Attended

- Noncommutative Geometry and its Applications, National Institute of Science Education and Research, Bhubaneswar (January 06-10, 2020).
- KBS Fest, Indian Statistical Institute, Bangalore (December 12-14, 2019).
- Symposium on Operator Theory, Indian Institute of Science, Bangalore (February 20-22, 2019).
- International Workshop on Leavitt Path Algebras and K - Theory, Cochin University of Science and Technology, Cochin (July 01-03, 2017).
- Recent Advances in Operator Theory and Operator Algebras, Indian Statistical Institute, Bangalore (December 13-22, 2016).
- T.S.S.R.K. Rao Fest, Indian Statistical Institute, Bangalore (September 22-24, 2016).
- Research Workshop on Analysis, Cochin University of Science and Technology, Cochin (July 25-28, 2016).

- Advances in Noncommutative Mathematics, Indian Statistical Institute, Bangalore (January 18-22, 2016).
- Complex Geometry and Operator Theory, Indian Statistical Institute, Bangalore (December 01-03, 2015).
- Recent Advances in Operator Theory and Operator Algebras, Indian Statistical Institute, Bangalore (December 09-19, 2014).
- Advanced Instructional School in Operator Theory, Indian Statistical Institute, Bangalore (June 2-21, 2014).
- Semigroups, Algebras and Operator Theory, Cochin University of Science and Technology, Cochin (February 26-28, 2014).
- IMSc-ISI joint workshop on Subfactors, Institute of Mathematical Sciences, Chennai (December 30, 2013 - January 10, 2104).

References

1. A. K. Vijayarajan
   vijay@ksom.res.in
   (Thesis advisor)
   Associate Professor,
   Kerala School of Mathematics
   Kozhikode 673571

2. B. V. Rajarama Bhat,
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   Professor
   Stat - Math Unit
   Indian Statistical Institute
   Bangalore 560059.

3. Jaydeb Sarkar
   jaydeb@gmail.com
   jay@isibang.ac.in
   Professor
   Stat - Math Unit
   Indian Statistical Institute
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4. M. N. N. Namboodiri
   mnnadri@gmail.com
   Emeritus Professor,
   Department of Mathematics
   Cochin University of Science & Technology
   Kochi 682022.

Teaching Assistance

I have been a tutor for the following courses:

- Functional Analysis (Annual Foundation School - Part II (2014 @ KSoM))
- Functional Analysis (Annual Foundation School - Part II (2016 @ KSoM))
- Measure and Integration (Annual Foundation School - Part II (2017 @ KSoM))