

CURRICULUM VITAE

Contact :

Date : 15.07.2022

Amit Samanta

Assistant Professor, Department of Mathematics

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Research experience and education :

1. *Postdoctoral research fellow* (18.08.2021-02.01.2022) at Ramakrishna mission Vivekananda Educational and research Institute, Belur Math, Howrah-711202.
2. *Teaching* (01.01.2018-30.06.2019) at Ramakrishna mission Vidyamandira, Belur Math, Howrah, West Bengal, Pin-711202.
3. *Visiting scientist* (15.05.2016-14.07.2016) at Centre for Applicable Mathematics, Tata Institute of Fundamental Research Centre, Bangalore.
4. *Postdoctoral research fellow* (16.10.2012-15.04.2014 and 11.11.2015-10.01.2016) : worked with Prof. Fulvio Ricci at Scuola Normale Superiore, Pisa-56126, Italy.
Research area : Harmonic analysis on Lie Groups.
5. *Postdoctoral research fellow* (01.12.2014 -15.10.2015): worked with Dr. Sanjoy Pusti at Department of Mathematics and Statistics, I.I.T, Kanpur, India.
Research area : Harmonic analysis on Lie groups.
6. *Ph.D.* (degree awarded on 14 December, 2012), Department of Mathematics, Indian Institute of Science, Bangalore, India.
Specialized area : Euclidean Harmonic analysis, Harmonic analysis on the Heisenberg group.
Thesis Title: Joint eigenfunctions on the Heisenberg group and support theorems on \mathbb{R}^n
Adviser: Prof. E. K. Narayanan.
7. *M.S.* (Master of Science) 2005-2008, Department of Mathematics, Indian Institute of Science, Bangalore, India.
Project title: A spectral Paley-Wiener theorem on Euclidean spaces and applications
Adviser : Prof. E. K. Narayanan

CGPA : 6.4/8

8. B.Sc.(Honours) 2002-2005

Ramakrishna Mission Residential College, Narendrapur, under Calcutta University.

Major in Mathematics with Physics and Statistics as auxiliary subjects.

Percentage marks (%): 67.8

Awards and fellowships

1. Postdoctoral Fellowship of TIFR-CAM, Bangalore (15.07.2016-present)
2. NBHM Postdoctoral fellowship, India (01.12.1014 - 30.11.2015).
3. Postdoctoral fellowship of Scuola Normale Superiore, Pisa, Italy 16/10/2012 - 15.04.2014
4. Qualified in National Eligibility Test (NET) in 2008, in Mathematics.
5. Research Fellowship of Indian Institute of Science, Bangalore, India (01/08/2005 - 17/05/2012).

Publications :

1. Narayanan, E. K., Samanta, A. *Support theorems on \mathbb{R}^n and non-compact symmetric spaces*, J. Funct. Anal. 259 (2010), no. 10, 2587–2612.
2. Samanta, A. *Hecke-Bochner identity and eigenfunctions associated to Gelfand pairs on the Heisenberg group*, J. Funct. Anal. 269 (2015), no. 11, 3347–3401.
3. Samanta, A., Sarkar, S. *Properties of singular integral operators $S_{\alpha,\beta}$* , Proc. India Acad. Sci. (2018), 128:12
4. Ricci, F., Samanta, A. *Spherical analysis on homogeneous vector bundles*, Advances in Mathematics, 338(2018),953-990
5. Pusti, S., Samanta, A. *Wiener Tauberian theorem for rank one semisimple Lie groups and for hypergeometric transforms*, Math. Nachr. 290(2017) no. 13, 2024-2051.
6. Samanta, A., Sarkar, S. *D. Luecking's finite rank theorem for Toeplitz operator, Benedicks' theorem on the Heisenberg group, and uncertainty principle for the Fourier-Wigner transform*, Journal of Mathematical Sciences, 235(2018), 208-219

Conferences/Workshops/Seminars/Symposia attended :

1. An Advanced Instructional School in Functional and Harmonic Analysis at ISI Bangalore during 3rd 28th July, 2006.
2. 10th Discussion meeting on Harmonic Analysis at IISc Bangalore during 28th December 2007 - 1st January, 2008.
3. National Instructional Workshop on Harmonic Analysis at IIT Kanpur during 14th 18th May 2008.
4. Workshop on Harmonic Analysis and PDE at IISc Bangalore during 5th 13th December 2008.

5. Workshop and Conference on Analysis and Its Applications at IISc Bangalore during 14th 27th May 2009.
6. Eleventh Discussion Meeting on Harmonic Analysis and Workshop at NISER Bhubaneswar during 28th December 2009 9th January 2010.
7. Workshop on Riemannian Geometry at TIFR CAM, Bangalore during 19th 30th July, 2010.
8. International Congress of Mathematicians (ICM) at Hyderabad, India during 19th - 27th August, 2010.
9. ICM Satellite Conference on Harmonic Analysis at NISER Bhubaneswar during 29th August 2nd September 2010.