

Curriculum Vitae

Saurabh Kumar Shrivastava

Address for Correspondence

School of Mathematics
Harish-Chandra Research Institute Allahabad
Chhatnag Road, Jhansi
Allahabad-211019, India
Email: saurabhkumar@hri.res.in
Phone: Off.: 91 532 227 4403, Mob.: 91 945 434 3606

Current Status

Postdoctoral fellow at School of Mathematics, HRI Allahabad, India since 14th February, 2011.

Research Interest

The broad area of my research interest is Euclidean Harmonic Analysis. During my Ph.D., I worked on some problems related to bilinear multiplier operators on Euclidean spaces. Currently, I am concentrating on studying L^p -boundedness properties of bilinear Littlewood-Paley square functions.

Education

- Ph.D. in Mathematics (2005-2011)
Indian Institute of Technology Kanpur, India
Thesis title : Bilinear Littlewood-Paley square functions and transference methods
Thesis supervisors : Prof. Shobha Madan and Prof. Parasar Mohanty
- M.Sc. in Mathematics with 85.5% (2003-05), Banaras Hindu University Varanasi, India.
- B.Sc. with 79.6%, (2000-03), Jiwaji University Gwalior, India
- Higher Secondary (10+2) with 86%, (1999-2000) Madhya Pradesh Board
- High School with 86%, (1997-98), Madhya Pradesh Board

I received the Chancellor medal at Banaras Hindu University for securing highest marks at masters level courses in all disciplines. I was also topper at school and college level.

Teaching Experience

Tutor : MTH-101, IIT Kanpur Undergraduate Course on Calculus

Tutor : MTH-102, IIT Kanpur Undergraduate Course on Complex Analysis and Linear Algebra

Publications

1. Relations between bilinear multipliers on \mathbb{R}^n , \mathbb{T}^n and \mathbb{Z}^n , Proc. Indian Acad. Sci.(Math. Sci.) 119, No 4 (2009), 501–512, (with Debashish Bose, Shobha Madan & Parasar Mohanty).
2. A note on the bilinear Littlewood- Paley square function, Proc. Amer. Math. Soc. 138 (2010), no. 6, 2095–2098 (with Parasar Mohanty).
3. Bilinear Littlewood-Paley for circle and transference, Publ. Mat. 55(2011), no. 2, 501-519, (with Parasar Mohanty).
4. Vector valued bilinear maximal operator and method of rotations, J. Math. Anal. Appl. 382 (2011), no. 1, 334–338 (with Parasar Mohanty).
5. Boundedness of smooth bilinear square functions and applications to some bilinear pseudo-differential operators, to appear in Indiana Univ. Math. J., (with Frederic Bernicot).
6. On bilinear Littlewood-Paley square functions, to appear in Proc. Amer. Math. Soc., (with P. K. Ratnakumar).
7. Fourier multipliers and Littlewood-Paley for modulation spaces, (with Parasar Mohanty) under preparation.

Lectures and Poster presentations

1. **Course on Littlewood-Paley square functions for ATM school on Harmonic analysis** held at IIT Kanpur during Jan 09–21, 2012.
2. **Series of lectures on bilinear Littlewood-Paley square functions** July 02, 2011 to July 30, 2011, Indian Institute of Science (IISc) Bangalore, India.
3. **Relations between bilinear multipliers on \mathbb{R}^n , \mathbb{T}^n and \mathbb{Z}^n** CIMPA-UNESCO-ARGENTINA School on Real Analysis and its Applications, May 26–June 6, 2008-La Falda, Crdoba, Argentina.

4. **Smooth bilinear Littlewood-Paley square functions**
11th Discussion meeting on Harmonic Analysis, January 06–09th, 2010- National Institute of Science Education and Research (NISER), Bhubaneswar, India.
5. **Bilinear multipliers and Transference methods**
Analysis Seminar, Department of Mathematics & Statistics, Indian Institute of Technology Kanpur, India.
6. **Poster: Transference results for bilinear multipliers**
Harmonic Analysis and Applications - A Conference in honor of the 70th birthday of Richard Wheeden, June 14–18th, 2010 - Seville, Spain.

Conference, School, Workshop attended

1. Satellite Conference on Harmonic Analysis, August 29–September 02, 2010 at National Institute of Science Education and Research (NISER), Bhubaneswar, India.
2. International Congress of Mathematicians, August 19– 27, 2010 at Hyderabad, India.
3. International Conference of Women Mathematicians, August 17–18, 2010 at University of Hyderabad, India.
4. Harmonic Analysis and Applications - A Conference in honor of the 70th birthday of Richard Wheeden, June 14–18, 2010 at Seville, Spain.
5. 11th Discussion meeting on Harmonic Analysis, January 06–09, 2010 at National Institute of Science Education and Research (NISER), Bhubaneswar, India.
6. RMS/SMF/IMSc Indo-French Conference in Mathematics, December 15–19, 2008 at Institute of Mathematical Sciences Chennai, India.
7. CIMPA-UNESCO-ARGENTINA School on Real Analysis and its Applications, May 26–June 6, 2008 at La Falda, Córdoba, Argentina.
8. 10th Discussion meeting on Harmonic Analysis, December 28, 2007–January 1, 2008 at IISc. Bangalore, India.
9. Workshop on Recent Advances in Fourier and Harmonic Analysis, March 24–26, 2007 at Sardar Patel University, Vallabh Vidyanagar Gujrat, India.

10. Advance Instructional School in Functional and Harmonic Analysis, July 03–29, 2006 at Indian Statistical Institute, Bangalore, India.
11. Workshop and Conference on Analysis and Applications, March 14–23, 2006 at IISc. Bangalore, India.
12. Workshop and Conference in Harmonic Analysis, December 11–24, 2006 at Indian Institute of Technology Kanpur, India.
13. Visiting Student Research Programms (VSRP), May 16– June 15, 2005 at TIFR Mumbai, India.
14. Mathematics Training and Talent Search (MTTS) Programme, May 17–June 12, 2004 at Regional Institute of Education Mysore, India.

Awards and Scholarships

- UGC-CSIR Junior Research Fellowship- 2005
- GATE Fellowship- 2005

Personal Information

- Date of birth: 28/02/1983
- Gender : Male
- Nationality: Indian
- Marital Status: Married
- Permanent Address: Village & Post- Diguwan, Datia-475673, M.P., India.

References

1. Prof. Shobha Madan, Department of Mathematics & Statistics, Indian Institute of Technology Kanpur, Kanpur-208016, India.
Email: madan@iitk.ac.in
2. Prof. Parasar Mohanty, Department of Mathematics & Statistics, Indian Institute of Technology Kanpur, Kanpur-208016, India.
Email: parasar@iitk.ac.in
3. Prof. Michael Lacey, School of Mathematics, Georgia Institute of Technology, Atlanta, GA 30332-0160, USA.
Email: lacey@math.gatech.edu

4. Prof. Emeritus Aline BONAMI, Laboratoire de Mathématiques Appliquées et Physique Mathématique (MAPMO), CNRS et Université d'Orléans, BP 6759, 45067 Orléans, France.
Email :Aline.Bonami@univ-orleans.fr
5. Prof. Frederic Bernicot, Laboratoire Paul Painlevé, CNRS - Université Lille 1, F-59655 Villeneuve d'Ascq, France.
Email: frederic.bernicot@math.univ-lille1.fr
6. Prof. P. K. Ratnakumar, School of Mathematics, Harish Chandra Research Institute Allahabad, Allahabad-211019, India.
Email: ratnapk@hri.res.in