CURRICULUM VITAE

Personal Data:

• Name	:	Brundaban Sahu
• Date of Birth	:	January 02, 1978
• Place of Birth	:	Jharanipali, Bolangir (Odisha)
• Father's Name	:	Mr. Bipin Sahu
• Mother's Name	:	Mrs. Ketaki Sahu
 Nationality 	:	Indian
• Present Address	:	School of Mathematical Sciences,
		NISER, Institute of Physics Campus,
		PO: Sainik School, Bhubaneswar
		Odisha - 751 005,
		India
• Email Address	:	brundaban.sahu@niser.ac.in
		brundaban.sahu@gmail.com
• Tel	:	+91 674 230 4107
• Fax	:	+91 674 230 2436

Education:

 Ph.D in Mathematics in 2008 from Harish-Chandra Research Institute / University of Allahabad, India. Thesis Title: *Some Problems in Number Theory*

Thesis Supervisor: Prof. B. Ramakrishnan

- M.Sc in Mathematics (83.8 %) in 2001 from Sambalpur University, Odisha, India.
- B.Sc in Mathematics (75.5 %) in 1999 from Gangadhar Meher College (Autonomous), Sambalpur, Odisha, India.
- Higher Secondary (66.7 %) in 1996 from Gangadhar Meher College (Autonomous), Sambalpur, Odisha, India.
- Secondary (77.2 %) in 1994 from I.G. High School, Jharanipali, Bolangir, Odisha, India.

Employment:

- Assistant Professor (August 2010–), NISER, Bhubaneswar
- Science Foundation of Ireland (SFI) Postdoctoral Fellow (November 2008-July 2010), University College Dublin, Postdoctoral Advisor: Dr Robert Osburn

Research Interests:

• Number Theory, Modular Forms

Publications:

- A supercongruence for generalized Domb numbers, Functiones et Approximatio Commentarii Mathematici, accepted for publication (with R. Osburn).
- Rankin-Cohen Brackets and van der Pol-Type Identities for the Ramanujan's Tau Function (with B. Ramakrishnan), Submitted for Publication.
- Supercongruences for Apéry-like numbers (with R. Osburn), Advances in Applied Mathematics, 47, (2011), 631-638.
- Congruences via Modular forms (with R. Osburn), Proc. Amer. Math. Soc., Vol 139 (2011) 7, 2375-2381.
- Rankin's method and Jacobi forms of several variables (with B. Ramakrishnan), Journal of Australian Math. Soc., 88 (2010) 1, 131-143.
- Distribution of Residues Modulo *p* (with S. Gun, F. Luca, P. Rath, R. Thangadurai), Acta Arith. 129 (2007), 325-333.
- On the Fourier expansion of Half Integral weight Jacobi Forms (with B. Ramakrishnan), Vol 2006, Int. J. Math. Math. Sci.
- (with Binod Kumar Sahoo) On Maximal Elementary Abelian Subgroups of the Symmetric Group, J. Appl. Algebra Discrete Struct. 4 (2006), no. 1, 47-56.
- Distribution of Quadratic non-residues which are not primitive roots (with S. Gun, R. Thangadurai, B. Ramakrishnan), Math. Bohem, 130 (2005), 387–396.

2

Research Visits:

- Harish-Chandra Research Institute, Allahabad (July 9-20, 2012)
- Harish-Chandra Research Institute, Allahabad (December 12-23, 2011)
- University College Dublin, Dublin (July 9-23, 2011)
- Institut des Hautes Études Scientifiques (IHÉS), Paris (July 15- September 15, 2009)

Talks in International Conferences/Workshops:

- Congruences of Apéry-like numbers via modular forms, 26th Automorphic Forms Workshop (April 26-29, 2012), University of British Columbia, Vancouver, Canada
- Rankin-Cohen brackets on quasimodular forms and some applications, Summer School on Quasimodular Forms (June 20-26, 2010) Clermont-Ferrand, France.
- Differential operators on modular forms, Workshop on the theory of Jacobi forms and Siegel modular forms (November 23- December 5, 2009), Chennai, India.
- Congruences for Apéry-like numbers, XXVI Journées Arithmétiques (July 6-10, 2009) in Saint-Étienne, France
- Rankin-Cohen Brackets and van der Pol type identities for the Ramanujan Tau function, 23rd Annual Workshop on Automorphic Forms and Related Topics (May 10-13, 2009) Bucknell University, USA.
- Hilbert Modular Forms, Workshop on Arithmetic Geometry (Sept 24-Oct 05, 2007) in Chennai Mathematical Institute, Chennai, India.
- On the Rankin-Cohen Brackets for Jacobi forms of higher degree, Jacobi Forms and Applications (May 7-11, 2007) CIRM, Luminy, France.
- On the Rankin-Cohen Brackets for Jacobi forms of higher degree, International Conference on Number Theory and Applications (Dec 27-29, 2006) in RKM Vivekananda College, Chennai.
- On the Fourier expansion of Jacobi forms of half-integral weights. International Conference on Number Theory (Dec 1-5, 2006) in HRI, Allahabad

Seminar Talks:

- Rankin-Cohen Brackets on Quasimodular forms and Convolutions sums of the divisor functions (March 20, 2012), NISER, Bhubaneswar.
- Representations of integers as sums of squares and modular forms (March 17, 2012), UGC aided Seminar, F. M. College, Balasore.
- Differential operators on modular forms, (December 16, 2009) NISER, Bhubaneswar.
- Rankin-Cohen Brackets and van der Pol type identities for the Ramanujan Tau function, (February 4, 2009), K-Theory, Quadratic Forms and Number Theory Seminar, UCD.
- Some problems in number theory (November 6, 2008) Thesis Seminar, University of Allahabad.
- Some prime producing polynomials and class number (July, 2004), HRI, Allahabad
- van der Waerden's Theorem and its applications (July, 2004), HRI, Allahabad.
- Quadratic reciprocity law (December, 2002), HRI, Allahabad.

Teaching Experience:

- M459/M605 (Algebraic Topology), Spring-2012, NISER.
- M601 (Graduate Algebra), Fall-2011, NISER.
- M202 (Algebra-I), Fall-2011, NISER.
- ME601/ME801 (Commutative Algebra), Spring-2011, NISER.
- M501 (Topology), Fall-2010, NISER.
- MATH 20160 (Polynomial Rings and Group Theory), Spring-2009, University College Dublin.

4

Conferences/Workshops Attended:

- 26th Automorphic Forms Workshop (April 26-29, 2012), University of British Columbia, Vancouver, Canada
- International Colloquium on Automorphic Representations and Lfunctions (Jan 3-12, 2012), TIFR, Mumbai, India
- International meeting on Number Theory, Celebrating the 60th Birthday of Professor R. Balasubramanian (Dec 15-20, 2011), HRI, Allahabad
- School and Conference on Modular Forms and Mock Modular Forms and their applications in Arithmetic, Geometry and Physics (Feb 28-March 18, 2011), ICTP, Italy
- Prospects in q-series and modular forms (July 14-16, 2010) UCD, Dublin, Ireland.
- Summer School on Quasimodular Forms (June 20-26, 2010) Clermont-Ferrand, France.
- Workshop on the theory of Jacobi forms and Siegel modular forms (November 23- December 5, 2009), Chennai, India
- XXVI Journées Arithmétiques (July 6-10, 2009) Saint-Étienne, France
- Activités Additives et Analytiques (June 30- July 4, 2009), Lille, France
- Mock theta functions and applications in combinatorics, algebraic geometry, and mathematical physics (May 25-29, 2009) Max Planck Institute for Mathematics, Bonn, Germany
- UCD-Nottingham Number Theory Day (May 2, 2009), University of Nottingham, UK
- 23rd Annual Workshop on Automorphic Forms and Related Topics (March 10-13, 2009), Bucknell University, USA
- International Colloquium on Cycles, Motives and Shimura Varieties (Jan 3-12, 2008), TIFR, Mumbai, India
- Advanced Instructional School in Analytic and Algebraic Number Theory (Dec 3-28, 2007), HRI, Allahabad, India
- Workshop on Arithmetic Geometry (Sept 24-Oct 05, 2007), Chennai Mathematical Institute, Chennai, India
- Jacobi Forms and Applications (May 7-11, 2007), CIRM, Luminy, France

- School and Conference on Analytic Number Theory (April 23-May 04, 2007), ICTP, Italy
- International Conference on Number Theory and Cryptography (Feb 23-27, 2007), HRI, Allahabad
- International Conference on Number Theory and Applications (Dec 27-29, 2006), RKM Vivekananda College, Chennai
- International Conference on Number Theory (Dec 1-5, 2006), HRI, Allahabad
- India-UK Number Theory Conference (Sept 18-23, 2006), IMSc, Chennai
- 33rd Annual Odisha Mathematical Society Conference (Feb 4-5, 2006), Sambalpur University, Sambalpur
- International Conference on Number Theory and Mathematical Physics (December 20-22, 2005), Srinivas Ramanujan Center, Kumbakonam
- AMS-INDIA Conference (December 17-20, 2003), IISc, Bangalore

Scholarship/ Award/Honour etc:

- Science Foundation of Ireland Postdoctoral Research Fellowship from November 2008 October 2010
- Senior Research Fellowship of HRI, 2004-2008
- Junior Research Fellowship of HRI, 2002-2004
- NBHM Junior Research Fellowship, 2001
- Qualified CSIR-NET, 2001
- Qualified GATE, 2001
- Highest percentage in M. Sc. Mathematics, Sambalpur University, 2001
- Post Graduate Merit Scholarship, Government of Odisha, 1999-2001
- Narayan Mishra memorial prize,1999 for highest percentage in Mathematics honours in G.M. College (Autonomous), Sambalpur
- National Merit Scholarship, Government of Odisha, 1994-1999
- Gramanchala Medhavruti (Rural Scholarship), Government of Odisha, 1989-1991

6

References:

Prof. B. Ramakrishnan Harish-Chandra Research Institute Chhatnag Road, Jhusi Allahabad- 211019, India Email: ramki@hri.res.in Phone: +91 532 2274319 Fax: +91 532 2567748

Prof. Nils-Peter Skoruppa Univeristy of Siegen Fachbereich 6 - Mathematik III Walter-Flex-Str. 3 57068 Siegen, Germany Email: nils.skoruppa@uni-siegen.de Phone: +49 271 740 3567 Fax: +49 271 740 3521 Prof. Robert Osburn School of Mathematical Sciences University College Dublin Belfield, Dublin 4, Ireland Email: robert.osburn@ucd.ie Phone: +353 1 716 2548 Fax: +353 1 716 1196

Prof. R. Thangadurai Harish-Chandra Research Institute Chhatnag Road, Jhusi Allahabad- 211019, India Email: thanga@hri.res.in

Phone: +91 532 2274313 Fax: +91 532 2567748