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PERSONAL INFO	Nationality India Date of Birth 26th June, 1982 Marital Status Single Languages: English, Oriya(mother tongue), Hindi(National Language).	
EMPLOYMENT	Professor (January 2023-...) IIT Kanpur Associate Professor (November 2018-December 2022) IIT Kanpur Assistant Professor (December 2013-October 2018) IIT Kanpur Visiting Professor (January 2017-July 2017) Virginia Tech, USA Adjunct Professor (April 2015-) Chennai Mathematical Institute Assistant Professor (August 2013-December 2013) NISER Bhubaneswar Post Doctoral Fellow (August 2011-August 2013) Weizmann Institute of Science, Israel	
RESPONSIBILITIES	Regional Coordinator (UP) for Math Olympiad Programme. Member of the problem committee for Simon Marais Mathematics Competition (Asia Pacific).	
RESEARCH INTERESTS	Algebraic Geometry and Invariant Theory. Lie Algebras and Representation Theory.	
PREVIOUS EDUCATION	Ph.D., Mathematics (May 2011) Chennai Mathematical Institute, India Thesis: Problems related to Invariant theory of Torus and finite groups. M. Sc. in Mathematics; 2003 - 2005 University of Hyderabad, India Subject Area : Pure Mathematics	
RESEARCH PUBLICATIONS AND PREPRINTS	1. <i>A Product formula for the restriction of characters to principal SL_2</i> (with N Santosh and D. Prasad), preprint.	

2. *Topological K-theory of Peterson varieties*, Preprint.
3. *Subtorus quotient of Grassmannians*, (with B.N. Chary and S.S. Kannan), Preprint.
4. *Invariant Theory of the Queer color group* (with Tinu Dhali and Preena Samuel), Submitted.
5. *Generalized Casimir operators for Loop Lie superalgebras* (with Abhishek Das), To appear in Canadian Math. Bulletin (2025).
6. *Mixed tensor invariants of the Lie color algebras* (with Preena Samuel), Linear Algebra and its Applications, Vol 709 (2025).
7. *Quotients of commuting schemes associated to symmetric pairs* (with N Santosh), Transformation Groups (2024). <https://doi.org/10.1007/s00031-024-09892-x>.
8. *On tensor products of typical representations of Lie superalgebras* (with Abhishek Das), Submitted.
9. *Graded picture invariants and polynomial invariants for mixed tensor superspaces* (with Preena Samuel), Journal of Algebra, Volume 661, 1 January 2025, Pages 595-621.
10. *On some central operators on classical Lie superalgebras* (with Sachin Sharma and S. Mukherjee), Journal of Pure and Applied Algebra, Volume 228, Issue 7, 2024 .
11. *Weyl Modules for Toroidal Lie algebras* (with Sachin Sharma and S. Mukherjee), Algebra and Representation Theory, Volume 26, 2023, 2605-2626.
12. *A note on Branching of $V(\rho)$* (with N Santosh), Journal of Algebra, Volume 594, 2022, 194-201.
13. *On the uniqueness of branching to fixed point Lie subalgebras*, (With N Santosh), Forum Mathematicum-2022-0128.
14. *On Torus quotient of Schubert varieties* (With B.N. Chary), International Journal of Mathematics, 32, no 3 (2021).
15. *Projective Normality of torus quotient of Grassmannian* (With Arpita Nayek), Journal of Pure and Applied Algebra (2020).
16. *Torus quotients of Richardson varieties in orthogonal and symplectic Grassmannian* (With Arpita Nayek), J. Algebra Appl. (2019).
17. *Torus quotients of Richardson varieties* (With S. S. Kannan and S. Upadhyay), Comm. Algebra, Vol. 46, no. 3 (2018).
18. *Projective normality of GIT quotient varieties modulo finite groups* (With Pallav Goyal), Comm. Algebra, Vol. 45, no. 7 (2017).
19. *Minimal Schubert Varieties admitting semistable points for exceptional cases*, Comm. Algebra, Vol. 42, no. 9 (2014). finalstrings, C-code
20. *Torus Invariants of the Homogeneous Coordinate Ring of G/B -Connection with Coxeter Elements* (With S.S. Kannan and B.N. Chary), Comm. Algebra, Vol. 42, no. 5 (2014).
21. *On some standard algebras in Modular Invariant theory*, J. Algebra Appl., Vol. 13, no. 1 (2014).
22. *Normality, Projective normality and EGZ theorem* (With S. S. Kannan), INTEGERS: The Electronic Journal of Combinatorial Number Theory, Vol 11 (2011).
23. *Projective Normality of Weyl Group quotients* (With S. S. Kannan), Proc. Indian. Acad. Sci. Math. Sci. 121 (2011), no. 1, pp. 19-26.
24. *Torus quotients of homogeneous spaces- minimal dimensional Schubert Varieties admitting semistable points* (With S. S. Kannan), Proc. Indian Acad. Sci. Math. Sci. 119 (2009), no.4, 469-485.
25. *Projective normality of finite group quotients* (With S. S. Kannan and Pranab Sardar), Proc. Amer. Math. Soc. 137 (2009), no. 3, 863-867.

INVITED TALKS

Invited talks given at Virginia Tech, Aarhus University, Fields Institute, Toronto, Universite Laval, Quebec city, Canada, Hausdroff Institute of Mathematics, Bonn, Germany, Weizmann Institute of Science, Israel, University of Haifa, Israel, Ben Gurion University, Israel, Bar-Ilan University, Israel, IIT Madras, IIT Kanpur.

TEACHING EXPERIENCE

1. Taught Abstract Algebra and currently teaching Lie algebras and Representation theory at IIT Kanpur, 2015.
2. Taught Abstract Algebra course in NISER, Bhubaneswar, August-December 2013.
3. Given a short course on Representation theory of Lie algebras at Ramanujan Institute of Advanced Studies in Mathematics, University of Madras, January-March 2009.
4. Tutor in Galois Theory course in the Annual Foundation School, Chennai Mathematical Institute, Chennai, December 2009.
5. Tutor in Modules over PID course in the Annual Foundation School, Chennai Mathematical Institute, Chennai, December 2009.
6. Taught a basic algebra course to High School teachers at Institute of Mathematics and applications, Bhubaneswar, July-August 2008.
7. Taught basic algebra and calculus in the Rural Mathematics Talent search Program funded by NBHM at Institute of Mathematics and applications, Bhubaneswar, December 2008.

HONORS AND FELLOWSHIPS

1. Indo-US Postdoc Fellowship, 2016.
2. Young Scientist Award, 2015.
3. INSPIRE Faculty Award, 2012.
4. NBHM (National Board for Higher Mathematics) Research Fellowship, 2005.
5. CSIR (Council of Scientific and Industrial Research) Research Fellowship, 2005.
6. Qualified GATE (Graduate Aptitude Test in Engineering) with 99.54 percentile, 2005.
7. Gold medal in Honours Mathematics Olympiad, 2003.
8. Andhra Pradesh Mathematics Olympiad, 2004.
9. Regional Mathematics Olympiad, Orissa, 1999.

CONFERENCES AND WORKSHOPS

1. Geometry of Algebraic Varieties, CIRM, 2019.
2. Algebraic Groups: Geometry, actions and Structures, Lyon, 2018.
3. Varieties and Group actions, IMPAN, 2018
4. QGM, Aarhus University, 2016.
5. QGM, Aarhus University, 2015.
6. IMPANGA-15: A conference in Algebraic Geometry, Bedleow, Poland, 2015.
7. Trimester Program on the Interaction of Representation Theory with Geometry and Combinatorics, HIM, Bonn, April 2011.
8. International Conference on Non-Commutative Rings Combinatorial Representation Theory, Pondicherry University, September 2010.
9. ICM Satellite Conference on Buildings, Finite Geometries and Groups, Indian Statistical Institute (Bangalore), August 2010.
10. International Congress of Mathematicians (ICM), Hyderabad, August 2010.
11. ICM Satellite Conference on Algebraic and Combinatorial Approaches to Representation Theory, Indian Institute of Science (Bangalore), August 2010.

12. Summer School and Workshop on Affine Schubert Calculus, Fields Institute, Toronto, July 2010.
13. Lecture Series on Spectral Sequences and Applications by Prof. S. Ramanan, CMI Chennai, November, 2009.
14. CAAG (Commutative Algebra and Algebraic Geometry) workshop, IIT Madras, July 2009.
15. Workshop on Principal Bundles in Geometry, CMI Chennai, February - March, 2009.
16. RMS/SMF/IMSc - Indo French Conference in Mathematics, December 2008.
17. Classification of Reductive Algebraic Groups - II, ISI Bangalore, May 2008.
18. Workshop on Group Theory : Classification of Reductive Algebraic Groups - I, ISI Bangalore, December 18, 2006 - January 5, 2007.

**TECHNICAL AND
COMPUTING SKILLS**

Algebraic Computation: SAGE, Schur, Singular, CoCoA, McCauley, MAGMA, GAP.
Others: Latex, Linux, HTML.