

CONTACT INFORMATION      Visiting Faculty  
School of Basic Sciences  
(Mathematics), IIT Bhubaneswar,  
Arugul Campus, Jatni, Khurda-  
752050, Odisha, India.

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RESEARCH INTERESTS      Representation Theory of p-groups, Frobenius groups and General linear groups  
 $GL(n, q)$ . Quasipermutation Representation of finite groups, Brauer Character.

ACADEMIC APPOINTMENT      **Visiting Faculty, School of Basic Sciences (Mathematics),**  
IIT Bhubaneswar, July, 2017-present.

POSTDOCTORAL RESEARCH EXPERIENCE      **Ben-Gurion University of the Negev, Be'er Sheva, Israel**  
Postdoctoral Fellow, Department of Mathematics, September, 2016-June, 2017.

**The Hebrew University of Jerusalem, Israel**  
Postdoctoral Fellow, Einstein Institute of Mathematics, October, 2014-August, 2016.

**Indian Statistical Institute Bangalore, Karnataka, India**  
NBHM Postdoctoral Fellow, Stat Math Unit, July 2013-September 2014.  
**Indian Statistical Institute Bangalore, Karnataka, India**  
Visiting Scientist, Stat Math Unit, April 2013-June 2013.

EDUCATION      **Indian Institute of Technology Delhi, New Delhi, India**  
Ph.D., Department of Mathematics, 2013.

- Thesis Title: *Frobenius-Schur Indicator and Gel'fand Character*
- Advisor: Dr Ritumoni Sarma
- Area of Study: Character Theory of finite groups

**Banaras Hindu University, Varanasi, India**  
M.Sc., Department of Mathematics, June 2005

**University of Allahabad, Allahabad, India**  
B.Sc. (Mathematics, Physics, Chemistry), June 2003

• **Published/Accepted in Journals with peer review process:**

1. S.K. Prajapati and R. Sarma, On the solution of  $x^k = g$  in a Finite Group, *B. Korean Math. Soc.*, 50(2) (2013) 697-704.
2. S.K. Prajapati and B. Sury, On the Total Character of Finite Groups, *Int. J. Group Theory*, 3(3) (2014) 47-67.
3. Mark L. Lewis and S. K. Prajapati, On the existence of Johnson polynomials for nilpotent groups, *Algebra Representation Theory*, 18(1) (2015), 205-213.
4. S.K. Prajapati and R. Sarma, On Group Equations, *Bull. Iranian Math. Soc.*, 41(2) (2015), 315-324.
5. M.R. Darafsheh, M. Ghorbani and S.K. Prajapati, On maximal subsets of noncommuting elements in finite  $p$ -groups, *Bull. Aust. Math. Soc.*, 92 (2015), 380-389.
6. S.K. Prajapati and R. Sarma, Total Character of a group  $G$  with  $(G, Z(G))$  as a Generalized Camina Pair, *Canad. Math. Bull.*, 59 (2016), 392-402.
7. M. R. Darafsheh, M. Ghorbani and S. K. Prajapati, On the size of maximal subsets of pairwise non-commuting elements in a certain special  $p$ -group, *J. Comb. Number Theory*, 8(2) 2016, 179-183.
8. C.P. Anil Kumar and S. K. Prajapati, Maximal non-commuting sets in certain unipotent upper-triangular linear groups, *Acta Math. Hungar.*, 151 (1) (2017), 82-116.
9. S. K. Prajapati and R. Sarma, A Study of the number of roots of  $x^k = g$  in a finite group via its Frobenius-Schur Indicators, *Algebra Colloquium*, 24(1) (2017) 93-108.
10. Irreducible Characters of finite  $p$ -groups of order  $\leq p^5$ , coauthored with M. R. Darafsheh, M. Ghorbani, to appear in *Algebra and Representation Theory*.

• **Submitted/In-preparation:**

1. On Generalized Commutator, coauthored with Rajat Kanti Nath, *Submitted*.
2. Simultaneous similarity classes as combinatorial invariants of finite groups, coauthored with Amritanshu Prasad, *In-preparation*.

- Tutor for the course MAL 111: Introduction to Analysis and Differential Equations
- Tutor for the course MAL 124: Introduction to Algebra and Matrix Analysis
- Tutor for the course MAL 516: Algebra
- Tutor for the course MAL 755: Algebraic Geometry

ACHIEVEMENTS/  
AWARDS

- Qualified Graduate Aptitude Test in Engineering (GATE) Organized by the Ministry of Human Resources and Development (MHRD), Govt. of India, India, 2007.
- Qualified Junior Research Fellowship (CSIR-JRF) examination organized by the Council of Scientific and Industrial Research, New Delhi, India, 2006.
- Received CSIR Junior Research Fellowship, March 2008 – March 2010.
- Received CSIR Senior Research Fellowship, March 2010-February 2013.
- Received Indian Statistical Institute, Visiting Scientist Fellowship, April 2013-June 2013.
- Received NBHM postdoctoral Fellowship, July 2013- September 2014.
- Postdoctoral Fellowship at Einstein Institute of Mathematics, The Hebrew University of Jerusalem, 1st October, 2014- August, 2015.
- Received prestigious “Lady Davis Fellowship” at Einstein Institute of Mathematics, The Hebrew University of Jerusalem, 1st September, 2015- 31st August, 2016.
- Postdoctoral Fellowship at Ben-Gurion University of the Negev, Israel, 1st September 2016- present.

WORKSHOPS /  
CONFERENCES  
ATTENDED

- *Advanced Instructional School in Representation Theory*, June 02 – June 24, 2010, Indian Statistical Institute (ISI), Bangalore, India.
- *International Congress of Mathematicians*, August 19 – August 27, 2010, Hyderabad, India.
- *International workshop cum conference on 'Groups, Actions, Computations'*, September 01 – September 12, 2010, Harish-Chandra Research Institute, Allahabad, India.
- *Advanced Instructional School on Lie Algebra*, July 04 – July 23, 2011, Chennai Mathematical Institute (CMI) and Institute of Mathematical Sciences (IMSc), Chennai, India.

- *International Conference on Group Theory and Lie Theory*, March 19 – March 21, 2012, Harish-Chandra Research Institute, Allahabad, India.
- *Advanced Instructional School on Algebra*, July 03 – July 21, 2012, Indian Institute of Science Education and Research (IISER Mohali), Panjab, India.
- *Brauer's Problems-50 Years*, September 2- September 6, 2013, University of Manchester, United Kingdom.
- *Teichmüller Theory and Interfaces with Ergodic Theory and Group Actions*, October 28- November 1, 2013, Jawaharlal Nehru University (JNU), New Delhi, India.
- *Advanced Instructional School on Classical Groups*, December 05 – December 26, 2013, Indian Institute of Science Education and Research (IISER Pune), Pune, India.
- *Instructional School on Schur Multiplier and Related Topics*, March 01- March-08, 2014, Harish-Chandra Research Institute, Allahabad, India.
- *Discussion Meeting on Group Theory*, May 08 – May 11, 2014, Indian Institute of Science Education and Research (IISER Mohali), Punjab, India.
- *A workshop on group theory in memory of David Chillag*, October 27-November-02, 2014, Technion - Israel Institute of Technology Haifa, Israel.
- *Geometric and Combinatorial Group Theory- In honor of Eliyahu Rips*, December 14-December 19, 2014, The Hebrew University of Jerusalem, Israel.
- Participated in *Amitsur Symposium in Algebra*, July 6, 2015, The Weizmann Institute of Science, Rehovot, Israel.

#### TALKS

- Delivered a talk in Colloquium, June 2013, Stat Math Unit, Indian Statistical Institute, Bangalore Centre.
- Delivered a talk at School of Physical Sciences, January 2014, Jawaharlal Nehru University (JNU), India.
- Delivered a talk in *Discussion Meeting on Group Theory*, May 08 – May 11, 2014, Indian Institute of Science Education and Research (IISER Mohali), Punjab, India.
- Delivered a talk in Symposium 2014, Stat Math Unit, Indian Statistical Institute, Bangalore Centre.
- Delivered a talk in Postdoctoral seminar 2015, at Einstein Institute of Mathematics, The Hebrew University of Jerusalem.

- Delivered a talk on “Total Character and Irreducible Characters of  $p$ -groups” at IIT Indore, September 2016.

COMPUTING  
SKILLS

Computer Programming

- GAP, Magma

Operating Systems

- Microsoft Windows family

Typesetting

- L<sup>A</sup>T<sub>E</sub>X

DECLARATION

I hereby solemnly declare that all the statements made above are true and correct to the best of my knowledge and belief.