

ASHISH K. SRIVASTAVA

Curriculum Vitae

Associate Professor
Department of Mathematics and Computer Science
Saint Louis University
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Education.

- Ph.D. Mathematics, 2007, Ohio University, USA.
- M.Tech. Computer Applications, (2003), Indian Institute of Technology, Delhi, India.
- M. Sc. Mathematics, (2001), Indian Institute of Technology, Delhi, India.

Professional Experience.

- Associate Professor, Department of Mathematics and Computer Science, Saint Louis University, St. Louis, Missouri, July 2013– present
- Assistant Professor, Department of Mathematics and Computer Science, Saint Louis University, St. Louis, Missouri, July 2008– June 2013
- Visiting Assistant Professor, Department of Mathematics and Computer Science, Saint Louis University, St. Louis, Missouri, 2007– June 2008

Awards.

1. Simons Foundation Collaboration Grant (2016-2021), Award number: 426367.
2. Santokh Gill award, IIT Delhi for highest GPA among graduates of Mathematics, 2001.
3. National Board for Higher Mathematics Scholarship, India, 1999-2001.
4. Queen Empress Victoria Gold Medal, University of Allahabad.

Publications.

Books.

1. Cyclic Modules and the Structure of Rings, Oxford Mathematical Monographs, Oxford University Press, 2012 (with S. K. Jain and Askar Tuganbaev).

Peer Reviewed Research Articles in International Journals.

1. Schroeder-Bernstein problem for modules, preprint (with Pedro A. Guil Asensio and Berke Kalebogaz).
2. V-rings versus Σ -V rings, preprint (with B. Davvaz, and Zahra Nazemian).
3. Theory of partial morphisms, preprint (with Pedro A. Guil Asensio and Berke Kalebogaz).
4. Modules invariant under monomorphisms of their envelopes, preprint (with Pedro A. Guil Asensio and D. Keskin Tutuncu)
5. Additive unit structure of endomorphism rings and invariance of modules under endomorphisms of their covers and envelopes, submitted (with Pedro A. Guil Asensio and T. C. Quynh).
6. A note on group algebras of locally compact groups, AMS Contemporary Math, volume in honor of Don Passman, to appear.
7. Additive representations of elements in rings: A survey, Advances in Algebra and its Applications, Springer Proceedings in Mathematics and Statistics, 2016, to appear.
8. Modules which are coinvariant under automorphisms of their projective covers, Journal of Algebra, 2016, to appear (with Pedro A. Guil Asensio, Derya Keskin Tutuncu, Berke Kalebogaz).
9. New characterizations of pseudo-Frobenius rings and a generalization of the FGF conjecture, Israel Journal of Mathematics, 2016, to appear (with Pedro A. Guil Asensio and S. Sahinkaya).
10. Rings with each right ideal automorphism-invariant, Journal of Pure and Applied Algebra, 220, 4 (2015), 1525-1537 (with M. Tamer Kosan and T. C. Quynh).
11. Modules invariant under automorphisms of their covers and envelopes, Israel Journal of Mathematics, 206, 1 (2015), 457-482 (with Pedro A. Guil Asensio, Derya Keskin Tutuncu).
12. Modules which are coinvariant under automorphisms of their projective covers, J. Algebra, to appear (with Pedro A. Guil Asensio, Derya Keskin Tutuncu, Berke Kalebogaz).

13. New characterizations of pseudo-Frobenius rings and a generalization of the FGF conjecture, *Israel Journal of Mathematics*, to appear (with Pedro A. Guil Asensio and S. Sahinkaya).
14. Rings with each right ideal automorphism-invariant, *Journal of Pure and Applied Algebra*, to appear (with M. Tamer Kosan and T. C. Quynh).
15. Automorphism-invariant modules, *Noncommutative rings and their applications*, *Contemp. Math., Amer. Math. Soc.* 634 (2015), 19-30 (with Pedro A. Guil Asensio).
16. Additive unit representations in endomorphism rings and an extension of a result of Dickson and Fuller, *Ring Theory and Its Applications*, *Contemp. Math., Amer. Math. Soc.* 609 (2014), 117-121 (with Pedro A. Guil Asensio).
17. Rings of invariant module type and automorphism-invariant modules, *Ring Theory and Its Applications*, *Contemp. Math., Amer. Math. Soc.* 609 (2014), 299-311 (with S. Singh).
18. Automorphism-invariant modules satisfy the exchange property, *Journal of Algebra*, 388 (2013), 101-106 (with Pedro A. Guil Asensio).
19. Rings and modules which are stable under automorphisms of their injective hulls, *Journal of Algebra*, 379 (2013), 223-229 (with Noyan Er and S. Singh).
20. Decomposing elements of a right self-injective ring, *J. Algebra and Appl.*, 12, 6 (2013), 10 pages (with Feroz Siddique).
21. Dual automorphism-invariant modules, *Journal of Algebra*, 371 (2012), 262-275 (with S. Singh).
22. On Σ - V Rings, *Communications in Algebra*, Vol. 39, No. 7 (2011), 2430-2436.
23. Direct Sums of Injective and Projective Modules, *Journal of Algebra*, 324 (2010), 1429-1434 (with Pedro A. Guil Asensio and S. K. Jain).
24. A Survey on Rings Generated by Units, *Annales de la Facult'e des Sciences de Toulouse Math'ematiques*, Volume 19, No. S1 (2010), 203-213.
25. On Unit-Central Rings, *Advances in Ring Theory*, *Trends in Mathematics*, Birkhauser Verlag (2010), 205-212. (with G. Marks and D. Khurana).
26. Partial Order in a von Neumann Regular Ring, *Communications in Algebra*, Vol. 37, No. 11 (2009), 4141-4152 (with B. Blackwood, S. K. Jain and K. M. Prasad).
27. On Σ - q Rings, *Journal of Pure and Applied Algebra*, Vol. 213, No. 6 (2009), 969-976 (with S. K. Jain and S. Singh).

28. Erratum: Generalized Group Algebras of Locally Compact Groups, Communications in Algebra, Volume 38, Issue 10 (2010), page 3974 (with S. K. Jain and A. I. Singh).
29. Generalized Group Algebras of Locally Compact Groups, Communications in Algebra, 36, 9 (2008), 3559-3563 (with S. K. Jain and A. I. Singh).
30. On multicolour noncomplete Ramsey graphs of star graphs, Discrete Applied Mathematics, 156 (2008), 2423-2428 (with S. Gautam and A. Tripathi).
31. The Monochromatic Column Problem, Discrete Math., Vol 308, No. 17 (2008), 3906-3916 (with S. Szabo).
32. Essential Extensions of a Direct Sum of Simple Modules-II, Modules and Co-Modules, Trends in Mathematics, Birkhauser (2008), 243-246 (with S. K. Jain).
33. New Characterization of Σ -injective Modules, Proc. Amer. Math. Soc., Vol 316, No. 10 (2008), 3461-3466 (with S. K. Jain and K. I. Beidar).
34. Unit Sum Numbers of Right Self-injective Rings, The Bulletin of Australian Mathematical Society, Vol 75, No. 3 (2007), 355-360 (with D. Khurana).
35. Right Self-Injective Rings in Which Every Element is a Sum of Two Units, Journal of Algebra and Appl, Vol 6, No. 2 (2007), 281-286 (with D. Khurana).
36. Essential Extensions of a Direct Sum of Simple Modules, Contemporary Mathematics, 420, Groups, Rings and Algebras, Amer. Math. Soc. (2006), 15-23 (with S. K. Jain and K. I. Beidar).

Professional Service

1. Member, AMS Committee on Human Rights of Mathematicians, 2016-2019.
2. Co-organized special session in the American Math Society meeting at Saint Louis, MO, October 2013.
3. Co-organized special session in the American Math Society meeting at Akron, Ohio, October 2012.
4. Co-organized Special Session in the annual American Math Society meeting at Washington DC, January 2009.
5. Editor, International Journal of Algebra, Hikari Ltd, Bulgaria.
6. Editor, European Journal of Pure and Applied Mathematics, Turkey.

7. Editor, Far East Journal of Mathematical Sciences, India.

Supervision of Students in Research

I have supervised one PhD dissertation and three masters theses.

1. Feroz Siddique, PhD dissertation, 2015.
2. Stephanie Perkins, Masters thesis, 2011.
3. Tori Reaney, Masters thesis, 2013.
4. Daniel Bossaller, Masters thesis, 2013.

Invited Presentations at Professional Meetings

1. Invited speaker, OU-OSU Ring Theory Seminar, July 2014.
2. Invited speaker, IIT Delhi, India, August 2014.
3. Invited speaker, ISI Delhi, India, August 2014.
4. Invited speaker, Lady Sreeram College, India, August 2014.
5. Invited speaker, Harish-Chandra Research Institute, India, September 2014.
6. Invited speaker, Associative Rings and Their Modules, American Math Society Western Sectional Meeting –Boulder, Colorado, 2013.
7. Invited main speaker, mini workshop on Noncommutative Rings and their Applications – University of Artois, Lens, France, 2011.
8. Invited speaker, Workshop on Algebra and Number Theory – Tezpur, Assam, India, 2010.
9. Invited Speaker, Special Session on Noncommutative Algebra, Canadian Mathematical Society Summer Meeting – St. Johns, Canada, 2009.

Contributed Presentations

1. Ohio State University-Denison Conference – Columbus, Ohio, 2010.
2. International Conference on Algebra and its Applications – Athens, Ohio, 2009.
3. Joint American Math Society/Math Assoc. America Meeting 2008– San Diego, CA.
4. International Conference on Rings and Things– Zanesville, Ohio, 2008.

5. Joint AMS/MAA Meeting 2007 – New Orleans, Louisiana.
6. International Conference on Noncommutative Rings, Group Rings and Diagram Algebras– Chennai, India, 2007.
7. OSU-Denison Conference – Columbus, Ohio, 2007.
8. International Conference on Algebra and its Applications – Athens, Ohio, 2006.