

PROFILE



Name: Dr. Ranganatha D.

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Academic Career:

- Doctor of Philosophy (Ph.D.), Topic: “**On Study of Partition Identities and Modular Relations**”. (University of Mysore) Supervisor Name: **Prof. Chandrashekar Adiga**.
- M.Sc. (Mathematics) year from 2010 to 2012 (University of Mysore)
- B.Sc. (PCM) year from 2007 to 2010 (Tumkur University)
- PUC (PCMB) year from 2005 to 2007, Vidya Nidhi PU College, Tumakuru
- SSLC (2005), Sri Rama Rural High School, Kondethimmanahalli, Pavagada (Tq.), Tumakuru (Dist.)

Area of Interest/Research: q-Series, Theory of Partitions, Continued fractions, Special functions.

Teaching career:

- From 16-Aug.-2012 to 31-May-2014: Assistant Professor, PG (Maths) Department, P.E.S. Arts, Science and Commerce, Mandya, Karnataka.
- From 22-July-2017 to 03-March-2018: Assistant Professor, Department of Mathematics, SIT, Tumakuru.
- Currently working as an Assistant Professor, Department of Mathematics, School of Physical Sciences, Central University of Karnataka, Aland road, Kalaburagi-585367, Karnataka, India From 05-March-2018 to till date.

Invited Lectures:

- Delivered Lectures (ten hours) on “Differential Equations” for 1st Year M.Sc. Students, Karnataka State Open University, Mysuru.

Academic Awards:

- **CSIR-NET** (2015) conducted (jointly) by Council of Scientific and Industrial Research (CSIR) and University Grants Commission (UGC), New Delhi, India.
- **KSET** (2013) conducted by University of Mysore.
- University Grants Commission, New Delhi has awarded Research Fellowship in Science for Meritorious Students (RFSMS) under **UGC-Basic Scientific Research** Scheme Order No. MG/MATHS/168/UGC-BSR/2014-15, Dated: 14-07-2014.
 - **Junior Research Fellow** from 15-July-2014 to 14-July-2016

- **Senior Research Fellow** from 15-July-2016 to 21-June-2017
- **Third Rank in B.Sc.**, Tumkur University, Tumakuru, Karnataka (2010).
- **First Rank in M.Sc.**, University of Mysore, Mysuru, Karnataka (2012).
- **Professor N. Rudraiah** Felicitation Committee Endowment Gold Medal, **Professor K.S. Iyengar** Gold Medal, **The Sridhar Kumar** Gold Medal, **Han's (South Korea)** Cash Prize, **The M.T. Narayan Iyengar** Memorial Prize, **Professor K. Venkatachala Iyengar** Endowment Cash Prize for Highest marks in M.Sc. Awarded by University of Mysore, Mysuru in 2012.
- **"Best Paper Presentation Award"**-The 29th International Conference of Jangjeon Mathematical Society on Number Theory, Special Functions and its Applications, 8th -10th August-2016, Pondicherry University, Pondicherry, India.

List of Publications:

1. C. Adiga, N.A.S. Bulkhali, D. Ranganatha and H. M. Srivastava, Some new modular relations for the Rogers-Ramanujan type functions of order eleven with applications to partitions, *J. Number Theory* 158, 281–297 (2016). Impact Factor: 0.747
2. C. Adiga and Ranganatha D. Congruences for 7 and 49-regular partitions modulo powers of 7, Ramanujan J., (2017) <https://doi.org/10.1007/s11139-017-9936-z>. Impact Factor:0.770
3. C. Adiga and Ranganatha D., Congruences modulo powers of 2 for ℓ -regular overpartitions, *J. Ramanujan Math. Soc.*, 32 (2) (2017), 147—163. Impact Factor: 0.333
4. Ranganatha D. Ramanujan-type congruences modulo powers of 5 and 7, (2017), *Indian J. Pure and Applied Maths.*, 48(3) (2017), 449--465. Impact Factor:0.325
5. C. Adiga and Ranganatha D. On 3-regular tripartitions, (2018), *Acta Mathematica Sinica*, accepted for publication. Impact Factor:0.446
6. C. Adiga, M.S.M. Naika, Ranganatha D. and C. Shivashankar, On $(2, k)$ -regular overpartitions for odd $k > 1$, *Arabian Journal of Mathematics*, DOI 10.1007/s40065-017-0195-z, (2017), (Springer).
7. N.A.S. Bulkhali and Ranganatha D., New Modular Relations for the Rogers-Ramanujan Type Functions of Order Thirteen with Applications to Partitions, *Sohag J. Math.* 3, No. 2, 67-75 (2016).
8. C. Adiga and Ranganatha D., Arithmetic properties of partition four tuples with 3-Cores, *Adv. Studies Contemp. Math.*, 26 (2016) 417--434.
9. C. Adiga, A.K. Agarwal and Ranganatha D., On generalization of some combinatorial identities, *J. of Ramanujan society of Math. And Math. Sc.*, 5 (2016) 47--56.
10. Ranganatha D. On a Ramanujan-type Congruence for Bipartitions with 5-Cores, *Journal of Integer Sequences*, 19 (2016), 1--5.
11. C. Adiga and Ranganatha D., A Simple Proof of a Conjecture of Dou on $(3, 7)$ -regular bipartitions modulo 3, *Integers*, 17 (2017), #14.
12. Ranganatha D., On Some New Congruences for ℓ -regular overpartitions. *Palestine journal of mathematics*, 7(1), (2018) 345-362.
13. Ranganatha D., Congruences modulo 7 and 11 for (s, t) -regular bipartitions, *Proc. Jangjeon Math. Soc.*, 21 (2018), No.2. pp. 171-183.
- 14.

PAPER PRESENTATION AT NATIONAL AND INTERNATIONAL CONFERENCES:

- New Modular Relations for the Rogers-Ramanujan Type Functions of Order Thirteen with Applications to Partitions—National Conference on Mathematics and its applications, AIT, Chikkamagaluru, Karnataka, 22-23rd, December 2015.
- Arithmetic Properties of Partition Four Tuple with Three Cores--31stAnnual conference of Ramanujan Mathematical Society, National College, Trichy, Tamil Nadu, 18-21, June 2016.
- New Congruences for l -regular overpartitions for $l \in \{5, 3^r\}$ $r \geq 2$.--The 29th International Conference of Jangjeon Mathematical Society on Number Theory, Special Functions and its Applications, 8th -10th August-2016, Pondicherry University, India.(Best Paper presentation Award).
- Ramanujan-type congruences modulo powers of 5 and 7—83rd Annual conference of IMS-an International meet, 12—15th December-2017, S.V. University, Tirupati, Andhra Pradesh.
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Reviewer/Membership in academic bodies:

1. Reviewer for Mathematical Reviews, American Mathematical Society (USA)
(Reviewer number: 131904).
2. Life member of Indian Mathematical Society.
3. Life member of Ramanujan Mathematical Society.

Conferences / Workshops attended:

1. Suvarna Manasa 2011 held at UOM, Manasagangotri, Mysuru, 15-24, February 2011.
2. National conference on Functional analysis and its applications, P.E.S. College, Mandya, 17-18, February 2012.
3. National conference on Graph theory and Number theory, UOM, Manasagangotri, Mysore, 21-22, March 2012.
4. One day state level workshop on Algebra and Graph theory, Maharani's science college for women, Mysore, 19 March 2012.
5. One day national seminar on Computational science held at Bharathi College, Mandya, 2nd March, 2013.
6. One day national seminar on Graphs in Network Theory, Government first grad college, Puttur Taluk, 15th February 2014.
7. One day state level seminar on Analysis and Algebra Geometry, P.E.S. College, Mandya, 5th April 2014.
8. National Conference on Advances in Geometry, Analysis and Fluid Mechanics, Kuvempu University, Shimoga, 26-27, August 2014.
9. Workshop on Use of Anti-Plagiarism software and J-Gate plus discovery Tool, UOM, Mysuru, 10 December, 2014.
10. Two days international conference on Mathematics-Yesterday and Today, JSS College, Mysore, 26-27, December 2014.
11. International conference on Advances in Mathematical sciences and applications, AIT, Chikkamagaluru, 22-23, December 2014.

12. National conference on Mathematics and its applications, UOM, Manasagangotri, Mysuru, 21 February 2015.
13. Two days national workshop on Algebra, UOM, Manasagangotri, Mysuru, 22-23, August 2015.
14. One day National Conference on Graph theory and Number theory, UOM, Manasagangotri, Mysuru, 24 August 2015.
15. The 103rd Indian science congress, UOM, Manasagangotri, Mysuru, 3-7, January 2016.
16. Two days national workshop on Number theory and works of Srinivasa Ramanujan, UOM, Manasagangotri, Mysuru, 26-27, February 2016.
17. Seminar on Unpublished Mathematical Manuscripts in India, National Institute of Prakrit Studies and Research, Shravanbelagola, 17-18, March 2017.
18. In-house Faculty Development Programme Work Series-XLII, From 23 -28 July, 2017, SIT, Tumakuru.