



Megha Goyal

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Personal Details	Date of Birth : December 19, 1986 Sex : Female Citizenship : Indian Marital Status : Married Residence Address : Teacher's Flat-08, Near Gate No.-1, Panjab Technical University, Main Campus, IBBAN, Kapurthala-144603.	
Academic Positions	Assistant Professor , Punjab Technical University Main Campus, Kapurthala.	
Research Interests	Number Theory- Primarily interested in combinatorial interpretations of various basic series identities in terms of different combinatorial objects such as partitions, lattice paths, Frobenius symbols, anti-hook differences etc.	
	Ph.D. Details , August 2009 - May 2014 <i>Supervisor:</i> Prof. A. K. Agarwal Department of Mathematics, Panjab University, Chandigarh, India. <i>Thesis Title:</i> A study of basic series and combinatorics.	
Published in Journals	<ol style="list-style-type: none">1. Megha Goyal (2017). New combinatorial interpretations of some Rogers-Ramanujan type identities, <i>Contrib. Discrete Math.</i>, 11, 43–57 (SCI Listed). Publisher- University of Calgary, Country- Canada2. M. Goyal and A.K. Agarwal (2016). On a new class of combinatorial identities, <i>ARS Combinatoria</i>, 127, 65–77 (SCI Listed). Publisher- Charles Babbage Research Centre, Country- Canada3. M. Goyal and A.K. Agarwal (2014). Further Rogers-Ramanujan identities for n-color partitions, <i>Utilitas Mathematica</i>, 95, 141–148 (SCI Listed). Publisher- Utilitas Mathematica Pub. Corp., Country- Canada	

4. A.K. Agarwal and **M. Goyal** (2012). New partition theoretic interpretations of Rogers-Ramanujan identities, *International Journal of Combinatorics*, 2012, Article ID 409505, pp 6. doi:10.1155/2012/409505 ([MR Listed](#))
Publisher- **Hindawi**, Country- **USA**
5. A.K. Agarwal and **M. Goyal** (2011). Lattice paths and Rogers identities, *Open Journal of Discrete Mathematics*, 1, 89–95.
Publisher- **SCIRP**, Country- **US**

Accepted Papers

1. **M. Rana and M. Goyal** (2017). On combinatorics of modified lattice paths and generalized q -series, *Contributions to Discrete Mathematics* ([SCI Listed](#)).
2. **Megha Goyal** (2017). Rogers-Ramanujan type identities for split $(n + t)$ -color partitions, *Mathematical Reports* ([SCI Listed](#)).
3. **Megha Goyal** (2017). On four generalized basic series and combinatorics, *Utilitas Mathematica* ([SCI Listed](#)).
4. **Megha Goyal** and M. Rana (2016). On central tendencies of the parts in certain restricted partitions, *Mathematical Reports* ([SCI Listed](#)).
5. **Megha Goyal** (2016). On combinatorial extensions of Rogers-Ramanujan type identities, *Contributions to Discrete Mathematics* ([SCI Listed](#)).
6. A.K. Agarwal and **M. Goyal** (2015). On 3-way combinatorial identities, *Proceedings of Indian Academy of Sciences (Math. Sci.)* ([SCI Listed](#)).

Awards/ Scholarship Received

- Won 02-International (ICSFA-June 2012, FIM-Dec. 2012) and 01-University level (CHASCON-2013) “Best Paper Presentation Award”.
- Received JRF (Junior Research Fellowship) from University Grants Commission (UGC), India.
- Received JRF (INSPIRE Research Fellowship) from Department of Science and Technology (DST), India.
- Qualified UGC-JRF-Dec 2010 during Ph.D. jointly conducted by UGC and CSIR (All India rank-123).
- Qualified UGC-NET-Dec 2008 jointly conducted by UGC and CSIR.

International Conferences

- International Conference on “Special Functions and Their Applications,” held at S.V.N.I.T., Surat (India), June 27-29, 2012.
Presented a paper entitled “New Rogers-Ramanujan Identities for n -color Partitions.”
Won “**Best Paper Presentation Award**.”
- “21st International Conference of FIM on Interdisciplinary Mathematics, Statistics and Computational Techniques (FIM-2012),” held at Panjab University, Chandigarh (India), December 15-17, 2012.
Presented a paper entitled “New Partition Theoretic Interpretations of Rogers-Ramanujan Identities.”
Won “**Second Best Paper Presentation Award**.”

- International Conference on “Special Functions and Their Applications,” held at Thapar University, Patiala (India), October 16-18, 2014.
Presented a paper entitled “New Partition Theoretic Interpretations of Rogers-Ramanujan Identities.”
- International Conference on “Emerging Areas of Mathematics for Science and Technology,” held at Punjabi University, Patiala (India), January 30-February 1, 2015.
Presented a paper entitled “New Partition Theoretic Interpretations of Rogers-Ramanujan Identities.”

National Conferences

- Attended colloquium “On Recent Trends in Algebra and Algebraic Number Theory,” held at Department of Mathematics, Panjab University, Chandigarh (India), November 25-27, 2009.
- Attended “4th Chandigarh Science Congress (Chascon-2010),” held at Panjab University, Chandigarh (India), March 19-20, 2010.
- “77th Annual Conference of Indian Mathematical Society (IMS-2011),” held at S.R.T.M. University, Nanded (India), December 27-30, 2011.
Presented a paper entitled “New Combinatorial Interpretations of Two Basic Series Identities.”
- “Symposium in Mathematics,” held at Department of Mathematics, Panjab University, Chandigarh (India), February 7-8, 2012.
Presented a paper entitled “New Combinatorial Interpretations of Two Basic Series Identities.”
- “7th Chandigarh Science Congress (Chascon-2013),” held at Panjab University, Chandigarh (India), March 1-3, 2013.
Presented a paper entitled “New Partition Theoretic Interpretations of Rogers-Ramanujan Identities.”
Won “**Best Paper Presentation Award.**”

Training Programs/ Workshops

- Participated in the “IWM regional workshop: Indian Women and Mathematics,” held at Punjabi University, Patiala (India), February 6-7, 2017.

Membership of Educational Bodies

- Member of American Mathematical Society
- Lifetime member of Indian Mathematical Society
- Lifetime member of Society for Special Functions and Their Applications

Previous Educational Details

- **Ph.D.** - Mathematics
Supervisor : Prof. A.K. Agarwal
Title : A study of basic series and combinatorics
Degree awarded in May, 2014 from Department of Mathematics, Panjab University, Chandigarh, India.

- **B.Ed.** - Science, Mathematics.
Passed in August, 2009 with 79.45% marks (Panjab University, Chandigarh) from Government College of Education, Chandigarh, India.
- **M.Sc. (Hons. School)** - Mathematics.
Passed in July, 2008 with 81.3% marks from Department of Mathematics, Panjab University, Chandigarh, India.
- **B.Sc. (Non Medical)**- Physics, Chemistry, Mathematics.
Passed in June, 2006 with 74.5% marks (Punjabi University, Patiala) from Government College, Malerkotla, Punjab, India.
- **Higher Secondary**
Passed in April, 2003 with 74.4% marks (P.S.E.B.) from Government College, Malerkotla, Punjab, India.
- **High School**
Passed in April, 2001 with 85.5% marks (P.S.E.B.) from S.S. Jain Girls High School, Malerkotla, Punjab, India.

Computer Skills

- Software: MATHEMATICA, LATEX, M.S. OFFICE
- Languages: C, FORTRAN 77

Languages known

- English, Hindi, Punjabi

Co-curricular Activities

- Won First prize in Panjab University inter zonal “Youth Festival-2008” for “Science Quiz Competition”.
- Have been a N.S.S. volunteer during Graduation.
- Was the joint editor of Science-Section of College magazine during graduation.
- Participated and won various essay writing competitions during school days.

References

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2. Prof. S.K. Tomar
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3. Prof. Sanjiv Puri
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