

Dr. Subhash Alha

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Department of Mathematics,
School of Sciences, II floor Polytechnic Building
Maulana Azad National Urdu University (MANUU),
Gachibowli, Hyderabad – 500032.



FIELD OF INTEREST: Special functions, Fractional calculus, q -calculus

RESEARCH PROJECTS

Completed:

1. **UGC Minor Research Project** entitled “On fractional q -derivatives and their applications” of grant Rs 1,05000 under the XII Plan grant of MANUU.

EDUCATION QUALIFICATIONS:

- **PhD*** in Mathematics, 2016 – University of Rajasthan, Jaipur
***Ph.D.Thesis Title: A study of basic hypergeometric functions and fractional q -calculus with applications**
- **M.Sc.** in Mathematics, 2009 – University of Rajasthan, Jaipur
- Certificate of Proficiency in Urdu through English from DDE, MANUU
- Qualified Rajasthan Public Service Commission **State Eligibility Test (SET)**-2012.
- Qualified UGC-CSIR **National Eligibility Test (NET-LS)** - June 2010
- Qualified **GATE 2010, 2011.**
- **B.Sc.** (Physics, Chemistry, Mathematics), 2007 – MDS University, Ajmer

FELLOWSHIP: UGC Rajiv Gandhi National Fellowship - J R F (2011-2013), S R F (2013-2015).

WORK EXPERIENCE

- Working as Assistant Professor at MANUU since Feb., 2015
- Worked as Lecturer from July, 2010 to Jan, 2011 at Jaipur Institute of Engineering and Technology, Kukas, Jaipur.

LIST OF PUBLICATIONS

1. Chanchlani, L., **Alha, S.**, Gupta, J. (2019). Generalization of Taylor's formula and differential transform method for composite fractional q -derivative, The Ramanujan Journal (Springer Link), DOI 10.1007/s11139-018-9997-7. 48:21–32; 2017 Impact Factor 0.770; 2018 Impact Factor 1.010.
2. Garg, M., **Alha, S.**, Chanchlani, L. (2015). On generalized fractional q -derivative. Le Matematiche, 70 (2), 123-134.
3. Garg, M., Chanchlani, L., **Alha, S.** (2015). q -analogues of saigo fractional integrals and derivatives of generalized basic hypergeometric series. Palestine Journal of Mathematics, 4(1), 144-155.
4. Garg, M., Manohar, P., Chanchlani, L., **Alha, S.** (2014). On generalized composite fractional derivative. Walailak Journal of Science and Technology, 11(12), 1069-1076.
5. Garg, M., **Alha, S.** (2014) A new class of q -Apostol-Bernoulli polynomials of order α . Revista Technocientifica URU, 6, 67-76.
6. Garg, M., Chanchlani, L., **Alha, S.** (2013). On generalized q -differential transform. Aryabhata Journal of Mathematics & Informatics, 5(2), 265-274.
7. Garg, M., Chanchlani, L., **Alha, S.** (2013). Some inequalities for product of ratio of q -gamma functions. Journal of Rajasthan Academy of Physical Sciences, 12(1), 55-62.

PAPER PRESENTATION IN CONFERENCES/WORKSHOPS/SEMINARS

1. 20th **International Conference of International Academy of Physical Sciences** on Recent Advances in Physical Sciences and Future Challenges, July 14-16, 2017 at Faculty of Science, Osmania University, Hyderabad.
Presented Paper: Generalization of Taylor's formula and differential transform method for composite fractional q -derivative.
2. One week Short Term Training Programme on Mathematical Modeling, Optimization, Fractional Calculus and their Computations in Engineering and Sciences, June 21-25, 2016, at Sardar Vallabhbhai National Institute of Technology, Surat.
Presented Paper: On generalized composite fractional derivative.
3. International Conference on Mathematical Sciences 2014, August 21-23, 2014, School of Mathematics, Madurai Kamraj University, Madurai.
Presented Paper: On generalized composite fractional q -derivative.
4. International Conference on Special Function and their Application ICSFA 2013 (12th Annual Conference of SSFA) and symposium on Applications in Diverse Fields of Engineering and Technology, December 13-15, 2013 at Department of Mathematics and Mechanical Engineering, Malviya National Institute of Technology, Jaipur.
Presented Paper: A new class of q -Apostol-Bernoulli polynomials of order α .
5. 24th National conference of Rajasthan Ganita Parishad on Modern aspects & challenges in Mathematics, May 18-19, 2013 at Department of Mathematics, M.A.J. Govt. College, Deeg (Bharatpur) Raj.
Presented Paper: A new class of Apostol-Bernoulli polynomials of order α .
6. 2nd National Conference on computational and Mathematical Sciences COMPUTATIA-II, November 30 & December 1, 2012 at VIT Campus, Jaipur.
Presented Paper: "On generalized q -differential transform."
7. National Conference on Recent Trends in Mathematics and Silver Jubilee Function of Rajasthan Ganita Parishad, May 27, 2012 at Department of Mathematics, M. S. J. Govt. College, Bharatpur.
Presented paper: "Some inequalities for product of ratio of q -gamma function"

ATTENDED CONFERENCES/WORKSHOPS/SEMINARS

1. Attended International Conference on Special Functions & Applications (ICSFA - 2019) & Symposium on Application of Mathematical Sciences in Engineering Problems, October 21–23, 2019, Department of Mathematics, University College of Engineering and Technology (A Constituent College of Bikaner Technical University), Bikaner, Rajasthan.
2. Attended National Urdu Science Congress 2019, 28th Feb., - 1st March, 2019 at MANUU, Hyderabad.
3. Three days Workshop on Online Teaching, Learning and Assessment with Open Educational Resources, Educational Technology Tools & MOOC Platform Programme Production, organized by IMC, MANUU from Nov. 27-29, 2017.
4. Short Term Course for Training Programme on Academic Leadership, at HRDC MANUU, from May 01-06, 2017.
5. STTP on Research Tools in Pure and Applied Mathematical Sciences, June 14-20, 2015, JK Lakshmipat University, Jaipur.
6. 17th International Conference of International Academy of Physical Sciences (CONIPAS-XVII) on Emerging Trends in Physical Sciences & Technology, January 16-18, 2015, University of Rajasthan, Jaipur, Rajasthan.
7. National Seminar on Recent Advances in Applied Mathematics and 18th Prof. P.D. Verma Memorial Lecture-2014, September 13-14, 2013 at Department of Mathematics, University of Rajasthan, Jaipur, Rajasthan.
8. National Seminar on Recent Developments in Applied Mathematics and 17th Prof. P.D. Verma Memorial Lecture-2013, September 14, 2013 at Department of Mathematics, University of Rajasthan, Jaipur.
9. National Workshop on Computational Methods in Engineering and Mathematics using MATLAB and MATHEMATICA, April 19-20, 2013 at Department of Mathematics, Marudhar Engineering College, Bikaner.
10. Workshop on Emerging Trends in Ramanujan's Mathematics and its application in the Field of q-Hypergeometric Series, December 22-24, 2012 at National Academy of Sciences, India, Allahabad.
11. National Workshop on Recent Trends in Bio-Mathematics and Statistics, November 2-5, 2012 at Centre for Mathematical Sciences, Banasthali University, Banasthali.
12. National Workshop on Research Methodology-2012, October 19-21, 2012 at Department of Statistics, University of Rajasthan, Jaipur.
13. UGC Sponsored-National Seminar on Recent Advances in Applied Mathematics and 16th Prof. P.D. Verma Memorial Lecture-2012 (NSRAM and PDVML-2012), July 29, 2012 at Department of Mathematics, University of Rajasthan, Jaipur.
14. AICTE Sponsored National Conference on "Recent Advances in Mathematics with Applications in Engineering", NCRAMAE-2012, March 12-13, 2012 at Government Engineering College, Ajmer.
15. National Seminar on Advances in Complex Analysis and Special Functions (ACASF 2011), March 12-13, 2011 at Department of Mathematics, Central University of Rajasthan, Kishangarh, Ajmer.
16. Soft Skills Faculty Development Workshop, August 20-21, 2010 at Jaipur Engineering College, Kukas, Jaipur.
17. 21st National Conference of Rajasthan Ganita Parishad on Recent Trends in Mathematics and Actuarial Sciences, February 20-21, 2010, at Malviya National Institute of Technology, Jaipur.

MEMBERSHIPS

- Member BOS (Board of Studies), Department of Mathematics, MANUU.
- Life member, Indian Science Congress Association (ISCA), Membership No. - L37013.
- Life member, Society for Special Functions and their Applications (SSFA) - .
- Life member, Rajasthan Ganita Parishad (RGP).

MEMBER OF ORGANIZING COMMITTEE OF CONFERENCE/ WORKSHOP/ SEMINAR

Year	Event	Duty
2019	National Urdu Science Congress 2019 at MANUU, Hyderabad	Transportation committee
2018	National Urdu Science Congress 2018 at MANUU, Hyderabad	Transportation committee
2017	National Urdu Science Congress 2017 at MANUU, Hyderabad	Registration and Dias committee
2015	International Conference on Celestial Mechanics & Dynamical Astronomy, 15-17 Dec., 2015	Organizing Committee member (Transportation)

ORIENTATION/REFERESHER COURSES

1. Completed Refresher Course on Mathematics at UGC-HRDC, University of Hyderabad, Hyderabad from July, 4-24, 2018.
2. Completed 31st Orientation Programme at UGC-HRDC, MANUU from Feb. 1-28, 2017.

ADMINISTRATIVE RESPONSIBILITIES

- Placement coordinator for physical science students, School of Sciences, MANUU, since July 2017 to continued...

M.Sc. Student Project Supervision:

Ongoing:

Completed:

1. A study of derivatives to an arbitrary order (Manzar Kamal & Mohammad Hashsham), May, 2016
2. A study of generalizations of Mittag-Leffler function and fractional derivatives (Mohd Khalid A171369& Shahid Ul Islam Enrollment No. A171521)

3. A study of Bernoulli polynomials, numbers and their generalizations (shama Naj A161008 & Syeda Mubashireen A165165)

Ph. D. Scholars:

• **Ongoing:**

1. Ishfaq Ahmed Mallah (Enroll. No. A181426)

PERSONAL PROFILE

Fathers name: Hanuman Prasad

DOB: 2nd June, 1984

Marital Status: Married

Permanent Address: S. K. Marble Suppliers, G – 143, Industrial Area Bidiyad Makrana, Distt. – Nagaur, Rajasthan- 341542.

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge

Date:

Palace:

Subhash Alha