

CURRICULUM VITAE

Personal Information

Address Department of Mathematics, University of the Punjab, Lahore
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Academic Qualifications

- ***Ph.D Mathematics 2019***
University of the Punjab, Lahore, Pakistan
- ***M. Phil Mathematics 2011-2013***
University of the Punjab, Lahore, Pakistan
- ***M. Sc. Mathematics 2005-2007***
University of the Punjab, Lahore, Pakistan
- ***B. Sc. (Mathematics and Physics) 2003-2005***
Govt. College for Women, Samanabad, Lahore, Pakistan
- ***I. C. S. 2001-2003***
Lahore College for Women University, Lahore, Pakistan
- ***Matriculation 1999-2001***
Govt. Comprehensive Girls High School, Lahore, Pakistan

Special Distinction

- Gold Medalist from Govt. College for Women, Samanabad, Lahore, Pakistan.
- HEC Talent Farming Scholarship holder at M.Sc. level.
- 3rd position in M.Sc. Mathematics.

Professional Experience

- ***University of the Punjab, Lahore, Pakistan (Since 2019)***
Assistant Professor (Department of Mathematics)
- ***University of the Punjab, Lahore, Pakistan (Since 2008)***
Lecturer (Department of Mathematics)
- ***Minhaj University, Lahore, Pakistan (2007-2008)***
Lecturer (Department of Mathematics)

Administrative Experience

- Member, Board of Faculty, University of the Punjab (2014)
- Member, Board of Studies, Department of Mathematics, University of the Punjab (2013), (2015 to 2018)
- Member, Departmental Library Committee (2013-2014)

- Staff Secretary, Department of Mathematics, University of the Punjab (2013-2014, 2019)
- In Charge Students Attendance Record, Department of Mathematics (2013-2014)
- Member Departmental Admission Committee (2013, 2018, 2019)
- Assistant Managerial Secretary, Punjab University Journal of Mathematics (2008-2009)

Field of Interest

- Computational Mathematics

Research Experience

- M.Phil thesis under the supervision of *Prof. Dr. Shahid S. Siddiqi*, University of the Punjab, Lahore.
- PhD thesis under the supervision of *Dr. Ghazala Akram*, University of the Punjab.

Research Publications

- S. S. Siddiqi and M. Sadaf, Application of non-polynomial spline to the solution of fifth-order boundary value problems in induction motor, Journal of the Egyptian Mathematical Society (2015), 23: 20–26.
- M. Sadaf and G. Akram, An improved adaptation of homotopy analysis method, Mathematical Sciences (2017), 11: 55–62.
- G. Akram and M. Sadaf, Application of homotopy analysis method to the solution of ninth order boundary value problems in AFTI-F16 fighters, Journal of the Association of Arab Universities for Basic and Applied Sciences (2017), 24: 149–155.
- G. Akram, M. Sadaf and N. Anum, Solutions of time-fractional Kudryashov–Sinelnshchikov equation arising in the pressure waves in the liquid with gas bubbles, Optical and Quantum Electronics (2017), 49: DOI 10.1007/s11082-017-1202-5.
- G. Akram and M. Sadaf, Solution of damped generalized regularized long-wave equation using a modified homotopy analysis method, Indian Journal of Physics (2018), 92(2): 191-196.

- M. Sadaf and G. Akram, A Legendre-homotopy method for the solutions of higher order boundary value problems, Journal of King Saud University – Science (2018), DOI.org/10.1016/j.jksus.2018.08.002.
- G. Akram and M. Sadaf, Wave solutions of nonlinear Eckhaus equation and generalized ZK-Burgers equation using a homotopy based method, TWMS Journal of Pure and Applied Mathematics, (Accepted for publication)
- M. Sadaf and G. Akram, Analytical approximate solutions of time-fractional integro-differential equations using a new iterative technique, TWMS Journal of Applied and Engineering Mathematics, (Accepted for publication)

Seminars and Conferences

- Delivered a seminar on “Non-polynomial Spline Solutions of Fifth Order Boundary Value Problems” in the Departmental Seminar Series regularly held at Department of Mathematics, University of the Punjab, Lahore. (2013)
- Delivered a seminar on “Solutions of Ninth Order Boundary Value Problems using Homotopy Analysis Method” in the Departmental Seminar Series regularly held at Department of Mathematics, University of the Punjab, Lahore. (October 21, 2015)
- Delivered a seminar on “Wave Solutions of Nonlinear Eckhaus Equation and Generalized ZK-Burgers Equation” in the Departmental Seminar Series at Department of Mathematics, University of the Punjab, Lahore. (September 28, 2016)
- Delivered a talk entitled “Wave Solutions of Nonlinear Eckhaus Equation and Generalized ZK-Burgers Equation” in 3rd UMT International Conference in Pure and Applied Mathematics (3rd UICPAM-2017) held on March 04-06, 2017.
- Delivered a seminar on “Analytical Approximate Solutions of Nonlinear Partial Differential Equations” in the Departmental Seminar Series at Department of Mathematics, University of the Punjab, Lahore. (December 20, 2017)
- Delivered a talk entitled “A Modified Homotopy Analysis Method for Analytical Approximate Solution of DGRLW Equation” in the 4th UMT International Conference on Pure and Applied Mathematics (4th UICPAM-2018) held on March 31-02 April, 2018.
- Delivered a talk entitled “Approximate Solutions of Time-Fractional Cahn-Hilliard Equations Using Two Reliable Techniques” in 5th UMT International

Conference on Pure and Applied Mathematics (5th UICPAM-2019) held on March 29-31, 2019.

Computer Skills

- Microsoft Word, Lattex, MATLAB, Mathematica.