

Dr. SAMREEN ABBAS

Department of Mathematics, GC Women University, Sialkot, Pakistan.
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Current Position

Assistant Professor
Department of Mathematics,
GC Women University,
Sialkot, Pakistan.

Qualification

Ph.D. (Computational Mathematics)

Research Interests

- Object Designing
- Data Visualization
- Image & Signal Processing
- Numerical Solutions of Partial Differential Equations

Research Projects & Thesis

Ph.D. Research

Research Area: Computational Mathematics
Thesis Title: Digital Image Processing using Soft Computing Techniques and Spline Representation
Advisor: Prof. Dr. Malik Zawwar Hussain
Department of Mathematics,
University of the Punjab, Lahore, Pakistan

M.Phil. Research

Research Area: Computational Mathematics
Thesis Title: Numerical Solution of Hyperbolic Equation Using Mesh Free Method
Advisor: Prof. Dr. Tahira Nasreen Buttar
Former Chairperson
Department of Mathematics,
Lahore College for Women University, Lahore, Pakistan

Academic Experiences

Organization: Govt. College Women University
Address: Kutchehry Road, Sialkot, Pakistan.
Designation: Assistant Professor in Mathematics [Feb 2019-to date]

Organization: Govt. College Women University
Address: Kutchehry Road, Sialkot, Pakistan.
Designation: Lecturer in Mathematics [Oct 2016- Feb 2019]

Organization: Department of Mathematics
Address: University of the Punjab, New Campus, Lahore, Pakistan.
Designation: Ph.D. Research Scholar [Aug 2012-Oct 2016]

Organization: Punjab College of Sciences
Address: Maharaja Road, Near Railway Road, Sialkot, Pakistan.
Designation: Lecturer in Mathematics [Jul 2009–Aug 2012]

Organization: Punjab Education Foundation
Address: 19-Ahmed Block, New Garden Town, Lahore, Pakistan.
Designation: Subject Specialist (TICSS) in Mathematics [Nov 2006–Aug 2007]

Administrative Experience

- Member/Secretary, Grievance Committee (January 2020-todate)
- Member, Board of Faculty of Administrative and Management Sciences (January 2017-January 2020)
- Convener, Departmental Development and Planning Committee (July 2019-July 2022)
- Member, Departmental Admission Committee (BS-Program) FY-2018
- In-charge, Departmental Maintenance & Stock (Sep 2016-Dec 2017)
- In-charge, Departmental Record Maintenance (FY-2017)
- In-charge, Hostel Admission (BS-Program) FY-2018

Publications in International Journal

- S. Abbas, M. Z. Hussain and M. Irshad, "Image Interpolation by Rational Ball Cubic B-Spline Representation and Genetic Algorithm", Alexandria Engineering Journal, 57, 2018, pp: 931-937.
- S. Abbas, M. Irshad and M. Z. Hussain, "Adaptive image interpolation technique based on cubic trigonometric B-spline representation", IET Image Processing, 12(5), 2018, pp: 769-777.
- M. Z. Hussain, S. Abbas and M. Irshad, "Quadratic Trigonometric B-spline for Image Interpolation using GA", PLOS ONE, 12(6): e0179721. 2017. doi.org/10.1371/journal.pone.0179721
- S. Abbas, M. Z. Hussain and M. Irshad, "Trigonometric Spline for Medical Image Interpolation", Journal of the National Science Foundation of Sri Lanka, 45(1), 2017, pp: 49-56.
- S. Abbas, M. Z. Hussain and M. Irshad, "GA Based Rational Cubic B-Spline Representation for Still Image Interpolation", Pakistan Journal of Statistics and Operation Research, 12(4), 2016, pp: 753-763.

Publications in International Conferences

- S. Abbas and T. N. Buttar, "A Mesh Free Method for the Numerical Solution Of 1D Non-Linear Un-damped Sine Gordon Equation", In proceeding: 4th International World Conference On 21st Century Mathematics 2009, March 4-8, 2009, pp:1-6.
- S. Abbas and T. N. Buttar, "A Mesh Free Method for 1 D Klein-Gordon Equation", In proceeding: 5th International Conference on Statistical Sciences, Jan 23-25, 17, 2009, pp: 111-114.

Participation in International Conferences

- Participating and presenting a research paper in 6th International World Conference on 21st Century Mathematics 2013, March 6-9, Lahore, Pakistan.
- Participating and presenting a research paper in 4th International World Conference on 21st Century Mathematics 2009, March 4-8, Lahore, Pakistan.
- Participating and presenting a research paper in 5th International Conference on Statistical Sciences, January 23-25, 2009. , Lahore, Pakistan.

REVIEWER OF INTERNATIONAL JOURNAL

- IEEE Transaction on Signal Processing (USA)
- IET Electronic Letters (UK)
- IET Image Processing (UK)

Participation in Workshops & Training Programs

- One day online training program on “Effective Distance Learning in COVID-19 Lock Down” organized by NBEAC HEC Webinar (Islamabad), May 04, 2020.
- One day training program on “Digital Library” organized by Main Library GCWUS in collaboration with HEC (Islamabad), April 26, 2019, GC Women University, Sialkot, Pakistan.
- One day training program on “Dynamics of Inspired Teaching” organized by QEC in collaboration with ORIC, March 19, 2019, GC Women University, Sialkot, Pakistan.
- One day training program on “Mendely , Endnote & Matex” organized by ITSC & ORIC in collaboration with HEC (Islamabad), March 6, 2018, GC Women University, Sialkot, Pakistan.
- Two days training program on “Life Skills” organized by Punjab Higher Education Commission (PHEC), February 21-22, 2018, Staff Development Academy, University of Education, Township, Lahore.
- Two day workshop regarding “Establishing Counseling Center in GCWUS” organized by ORIC, December 15-16, 2017, GC Women University, Sialkot, Pakistan.
- Three days “Faculty Professional Development Training”, organized by ORIC in collaboration with HEC (Islamabad), September 06-08, 2017, GC Women University, Sialkot, Pakistan.
- One day “Hands on Training for available E- Resources” organized by Central Library in collaboration with HEC (Islamabad), April 24, 2017, GC Women University, Sialkot, Pakistan.
- One day “Workshop on Developing Vision, Mission, Goals and Objectives” organized by Quality Enhancement Cell (QEC), Feb. 01, 2017, GC Women University, Sialkot, Pakistan.

- One day “Faculty Development Program 2017” organized by IBA Department in collaboration with Human Resource Development Centre (HRDC) (University of the Punjab, Lahore), Jan. 23, 2017, GC Women University, Sialkot, Pakistan.
- One week CPD course on “Entrepreneurship and Professional Grooming” organized under Planning & Development Program (PDP) in collaboration with Learning Innovation Division of HEC (Islamabad), Nov. 14-18, 2016, GC Women University, Sialkot, Pakistan.

Awards & Certificates

- A certificate is being awarded to be recognized as a Microsoft Office specialist for Office Word 2013.
- A research scholarship of 5000/- p.m. is being awarded by Doctoral Program Coordination Committee (DPCC), University of the Punjab, Lahore during the Ph.D. research period.
- A reward of 10,000/- is being awarded as a token of appreciation from the Directors and management of Punjab Education Foundation for the good work as a subject specialist (TICSS).

Computer Skills

Skill Name	Description
MATLAB	Have a good experience of using MATLAB.
LATEX	Have a good experience of using LATEX.
Mathematica	Not currently in use, however well aware of how to use this application
MS Windows	Comfortable to work in Windows Operating System environment
MS Office	Good experience of using MS Office applications including Excel, Word, Power Point etc.

References

Dr. Malik Zawwar Hussain

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University of the Punjab, Lahore, Pakistan.
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Dr. Maria Hussain

Associate Professor
Department of Mathematics,
Lahore College for Women University, Lahore, Pakistan.
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Dr. Misbah Irshad

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