

CURRICULUM VITAE

Bushra Younas, PhD,
Assistant Professor, HEC Approved Supervisor
Department of Mathematics, University of Sialkot
Mob. (+92)-303-608-0064; E-mail: bushra.younas@uskt.edu.pk

Research Summary

Total Research Papers Published in International Journals:

9 Cumulative IF > 150	Cumulative citations: 2360
h-index: 30	i10-index: 70
MPhil Supervised: 12	MPhil in Progress: 6

Research Lab and Coordinator, Head of Mathematics Department, University of Sialkot

RESEARCH INTERESTS

- | | |
|--|---|
| <ul style="list-style-type: none">• Schrodinger's Wave Equations (PDE)• Nonlinear Optics• NPDEs• Theory of Solitons | <ul style="list-style-type: none">• Numerical Analysis• Computational Work• Applied Mathematics |
|--|---|

TEACHING EXPERIENCE

- I worked as a Lecture in university of Gujrat (Fatima Jinnah campus) Gujrat (from Jan 2012 to Dec 2014).
- I am working as Lecture in university of Gujrat (Sialkot sub-Campus) (from 2nd Nov 2015- 17th Oct -2022), Department of Mathematics, University of Gujrat, Sialkot Sub-Campus, and Sialkot, Pakistan.
- I am working as Assistant Professor in university of Sialkot (from 18th Oct 2022 PRESENT), Department of Mathematics, University of Sialkot, Sialkot, Pakistan.

Assistant Professor, Mathematics Department of Mathematics, University of Sialkot Primary responsibilities are to teach courses, research and thesis supervision assists the Head of Department as a coordinator, and lead USKTian Mathematical Society. Courses taught are • Numerical Analysis (I-II) • ODE/PDE • Calculus • Linear Algebra • Fluid Mechanics • Computational Math • Mathematical Statistics Created and developed curriculum for the following course • Theory of Solitary waves	Mar 2, 2023 to present
Lecturer, Mathematics I am working as Lecture in university of Gujrat (Sialkot sub-Campus) (from 2nd Nov 2015-17th Oct -2022), Department of Mathematics, University of Gujrat, Sialkot Sub-Campus. I am working as Lecture in university of Sialkot (from 18th Oct-2022-1 March 2023) • Numerical Analysis (I-II) • ODE/PDE • Calculus • Linear Algebra • Computational Math • Mathematical Statistics	Nov 3, 1015 to Mar 1, 2023

PUBLICATIONS

Published Research Papers and Articles

Sr. No.	Description	ISI (I.F)
1.	Exact Optical Solitons In (N+1)- Dimensions Under Anti-Cubic Law Of Nonlinearity, Bushra Younas and Muhammad Younis, Research Journal of optik, Vol. 156, 2018, pp: 479-486.	0.835
2.	Chirped Solitons In Optical Monomode Fibers Modelled with Chen-Lee-Liu Equation, Bushra Younas and Muhammad Younis, Paramana-J. Physics, Vol. 94, 2020, pp: 12043-6.	1.688
3.	Modern Physics Letters B, Vol. 32, 2018, pp: 26-1850320	0.635
4.	A Simple Neuro- Heuristic Computational Intelligence Algorithm For Thin Film Flow Equation Arising In Physical Models, Iftikhar Ahmad and Bushra Younas, IEEE, Vol. 34, 2018, pp: 556-561.	
5.	An Innovative idea Of Matrices Problem Solving Using Image Processing, Ameer Hamza Sajjad and Bushra Younas, University of Sindh journal of information and communication technology (usjict), Vol. 4, 2020, pp: 2521-5582.	0.536
6.	Stochastic modeling and analysis of Hepatitis and Tuberculosis co-infection dynamics Sayed Murad Ali Shah and Bushra Younas, Chines Physics B, Vol. 33, 2024, pp: 112034	4.567
7.	Thermal radiation and stability analysis in dual solutions of Al_2O_3 -cu/ H_2O hybrid nanofluid flow over a stretching surface with Arrhenius kinetic energy Bushra Younas and Asia Naseem Journal of radiation research and applied sciences, Vol. 18, 2025, pp: 1015100	1.67

CONFERENCES AND SEMINARS

Papers/talks presented in International/National Conferences and Seminars

Sr. No.	Description
1	Paper presented in 13th International Pure Mathematics Conference 2012 held at Marghala Hotel, Islamabad, organized by Quaid-e-Azam University, September 01-03, 2012.

Attended International/National Conferences

Sr. No.	Description
1	1 st National conference on Mathematical Sciences (NCMS, 2014) in University of Malakand Khyber Pakhtunkhwa, Malakand on 2-4 September, 2014.
2	1 st UMT national conference on pure and applied sciences on 5-7 March 2016.
3	6 th International conference on recent development in fluid mechanics in national university of science and technology (NUST).
4	CAMS international conference in Lahore University of Management Sciences (LUMS) on 26-28 May 2016.

THESIS SUPERVISED

Sr No	Student's Name	Year	Description/Title of Thesis
1	Uzma Nassar	2022	Numerical Treatment of Non-Linear Schrodinger wave Equation.
2	Asia Nasim	2024	Numerical study of stagnation point flow of hybrid Nano-fluid over a Stretching sheet.
3	Iqra Nawaz	2024	Three-Dimensional Hybrid Nano-fluid rotating flow using KELLER'S Box Analysis
4	Shugfta Parveen	2016	Chirped Solitons with Schrodinger-Hirota Equation by Complex Ansatz Approach
5	M. Aslam	2015	Bright-Dark Combined Optical Solitons in Dual-Core Fibers with Kerr Law Non-Linearity

MISC. ACTIVITIES

Administrative Services/University Level Activities

- Member, USKT Board of Studies (BOS) in Department of Mathematics, University of the Sialkot, Sialkot.
- Member, Department research and review committee (DRRC) in Department of Mathematics, University of Sialkot, Sialkot.
- Member, Curriculum review committee (CRC) in Department of Mathematics, University of Sialkot, Sialkot.
- Secretary/Member, Industrial Advisory Board in Department of Mathematics, University of Sialkot, Sialkot.

Department Level Activities

- Coordinator, USKTBS (Head Management Society and Research Lab), University of Sialkot, Sialkot.

Memberships

1. Member of USKTian Mathematical Society
2. Member of Pakistan Mathematical Society

REFERENCES

1. Dr.Iftikhar Ahmad
Chairman Mathematics Department
Associate Professor (UOG), Hafiz Hayat Campus, Gujrat
2. Dr.Ozair Ahmad
Head of Department (UOL), Mathematics. Lahore Campus
3. Dr.Younis (Late)
Assistant professor (PU), Lahore
4. Dr.Muhammad Sajid Iqbal
Associate professor (NUST), Islamabad