



SAMIA BASHIR

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A collaborative, result-driven, accomplished researcher with experience in harmonic analysis, operator theory and fluid mechanics fields. Confident team player with an eye for great ideas and a passion for moving science in new directions.

EDUCATION

MARCH 2024

DOCTOR OF PHILOSOPHY IN MATHEMATICS

QUAID-I-AZAM UNIVERSITY ISLAMABAD, PAKISTAN

- Dissertation: On the Boundedness of Some Hardy-type Operators

MARCH 2013

MASTER OF PHILOSOPHY IN MATHEMATICS (DISTINCTION)

RIPHAH INTERNATIONAL UNIVERSITY ISLAMABAD, PAKISTAN

- Dissertation: On the solution to MHD steady flow of Burgers' fluid down an inclined plane

PROFESSIONAL EDUCATION

DECEMBER 2013

BACHELOR OF EDUCATION

ALLAMA IQBAL OPEN UNIVERSITY ISLAMABAD, PAKISTAN

RESEARCH EXPERIENCE

SEPTEMBER 2016 – AUGUST 2023

RESEARCHER

QUAID-I-AZAM UNIVERSITY ISLAMABAD, PAKISTAN

As a PhD Researcher the main duties/responsibilities were:

- Conducted research in the field of harmonic analysis, focusing on integral operators and function spaces arising in harmonic analysis
- Investigated the properties of different integral operators and developed novel methodologies for the boundedness of variable exponent function spaces with the help of integral operators
- Collaborated with group members on projects related to functional analysis and operator theory, contributing to the understanding of Hardy-type operators and variable exponent function spaces

JANUARY 2012 – MARCH 2013

RESEARCHER

RIPHAH INTERNATIONAL UNIVERSITY ISLAMABAD, PAKISTAN

As a M.Phil Research student focusing on **Fluid Mechanics** my duties/responsibilities were:

- To investigate the effect of steady Magnetohydrodynamics (MHD) flow of an electrically conducting, incompressible Burgers' fluid
- To attain exact solutions for the governing momentum and energy equations

- To analyze the effects of dimensionless parameters emerging in the model graphically with the help of Maple

TEACHING EXPERIENCE

OCTOBER 2024 – TO PRESENT

VISITING FACULTY MEMBER

SHIFA TAMEER-E-MILLAT UNIVERSITY ISLAMABAD, PAKISTAN

- Lecture preparation on different topics related to **BS (Software Engineering, Cyber Security, Artificial Intelligence)** course **Multivariable Calculus, Linear Algebra** curriculum
- designed lesson plans that highlight essential calculus concepts and their application in solving real-world problems, designed to cater to the individual learning needs and styles of students.

AUGUST 2024 – TO PRESENT

VISITING FACULTY MEMBER

QUAID-I-AZAM UNIVERSITY ISLAMABAD, PAKISTAN

- Lecture preparation on different topics related to BS (Chemistry, Micro Biology, Plant Sciences) course **Quantitative Reasoning-I, Calculus and Analytical Geometry, Quantitative Reasoning-II** curriculum
- Developed lesson plans that cover the basic principles of calculus and their application to problem solving, tailored to meet the students' needs and learning style

SEPTEMBER 2018 – JANUARY 2019

VISITING FACULTY MEMBER

QUAID-I-AZAM UNIVERSITY ISLAMABAD, PAKISTAN

- Developed and delivered lectures, presentations and demonstrations on various topics related to BS course **Introduction to Computer** curriculum
- Created lesson plans and instructional material tailored to the needs and learning style of students
- Assessed students learning through assignments, projects, quizzes and exams. Provided constructive feedback for improving their understanding and performance
- Introduced fundamental aspects of **Maple software**
- Organized computer laboratory sessions to facilitate hands on application of theoretical concepts

JANUARY 2012 – NOVEMBER 2014

SCIENCE TEACHER

THE SCHOLAR SCHOOL MODEL TOWN ISLAMABAD, PAKISTAN

- Lesson planning in line with the school curriculum structure and scheme of work
- Provide assistance and support to the school internal and external engagement activities, including parent consultations and recruitment events
- Provide leadership and support in extra curriculum activities including the leadership of societies such as sports or a creative art

PUBLICATION

- Bashir, S., & Hussain A. (2023). Characterization of variable exponent central BMO space via commutators of fractional Hardy operator. Journal of **Jilin** University, 42(5).
- Bashir, S., Sultan, B., Hussain, A., Khan, A., & Abdeljawad, T. (2023). A note on the boundedness of Hardy operators in grand Herz spaces with variable exponent. **AIMS Mathematics**, 8(9), 22178-22191.

AWARDS AND SCHOLARSHIP

Merit Scholarship Fellowship, (Fall 2016-Spring 2020)

Quaid-I-Azam University, Islamabad, Pakistan

Merit Scholarship, (Spring 2011- Fall 2012)

Riphah International University, Islamabad, Pakistan

Chancellor's Gold Medal, (December 2013)

Riphah International University, Islamabad, Pakistan

SKILLS

- **Computer:** Microsoft Office, Adobe photoshop & Illustrator
- **Latex**
- **Maple**
- **Language:** Fluent in English, Urdu
- **Soft skills:** Interpersonal skills, Problem solving, Time management, Organization, Teamwork, Critical thinking
- **Driving**

TRAINING

DECEMBER 2012

Workshop on Symbolic Computing Mathematica

RIPHAH INTERNATIONAL UNIVERSITY, ISLAMABAD, PAKISTAN

CONFERENCE/MEETINGS

MAY 2012

Techno Moot 2012, 7th Symposium on Computational Complexities, Innovations & Solutions (CCIS) (Participant)

COMSATS Institute of Information Technology, ABBOTTABAD, PAKISTAN

WEBINARS

OCTOBER 2020

An Editor's guide to successful peer review by LETPUB

NOVEMBER 2020

Mastering Statistics by LETPUB learning nexus

DECEMBER 2020

Essential academic documents to ensure career success by LETPUB learning nexus

JANUARY 2021

Guide to publishing in top-tier international journals by LETPUB learning nexus

FEBRUARY 2021

Understanding research metrics by LETPUB

APRIL 2021

Strategies for identifying the best journal for publication by LETPUB learning nexus

AUGUST 2021

Addressing reviewer comments: resubmit your manuscript with confidence by LETPUB

DECEMBER 2021

What are editors looking for in a manuscript? by LETPUB

MAY 2022

Best practices for PowerPoint presentations every researcher should know by LETPUB