

DR. AMNA ISHTIAQ

Ph.D. Mathematics (Germany)

PERSONAL INFORMATION

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OBJECTIVE

Academic professional looking to grow and succeed in a dynamic environment. Being an instructor of Mathematics, I am quite eager to work with a growth-oriented organization and to be the part of a proactive program that will enable me to make use of my education and related skills. Have a proven track record of exceeding departmental goals while constantly developing my teaching skills.

EXPERIENCE PROFILE

8 years' cumulative experience as Faculty of Mathematics teaching to Masters of Philosophy (M.Phil), Bachelors (BS) and Intermediate programs. Courses taught including Calculus, Probability and Statistics, Meta-Analysis, Linear Algebra, Foundational Mathematics in:

□ **Air University, Kharian Campus, Pakistan**

(Visiting Assistant Professor, from Feb. 2024 to till now)

□ **National University of Medical Sciences (NUMS), Rawalpindi, Pakistan**

(Permanent Assistant Professor, from Oct. 2019 to Jan. 2024)

□ **University of Siegen, Germany**

(Research Assistant, from Apr. 2018 to Sep. 2018)

(Research Area: Geo-Mathematics)

□ **University of Management and Technology (UMT), Lahore, Pakistan**

(Permanent Lecturer, from Feb. 2013 to May 2014)

□ **Siqarah Girls College, Lahore, Pakistan**

(Permanent Lecturer, from Mar. 2012 to Jan. 2013)

□ **Govt. Degree College for Women, Lahore, Pakistan**

(Intern Lecturer, from Feb. 2010 to Oct. 2010)

FIELD OF SPECIALIZATION

My expertise related to conduct research is covering different areas of numerical functional analysis, geo-mathematics, mathematical modeling by using different tools and techniques for data analysis. I mostly used MATLAB for data analysis.

EDUCATION

Ph.D. Applied Mathematics University of Siegen	CGPA 3.8/4.00 (Note 1.3/5.00)	Oct. 2014 - Sep. 2018 Siegen, Germany.
M.Phil. Mathematics Govt. College University (GC)	CGPA 3.78/4.00	Sep. 2009 – Dec. 2011 Lahore, Pakistan.
B.Sc. Hons. Mathematics (<i>Gold Medalist</i>) Govt. College University (GC)	CGPA 3.65/4.00	Aug. 2005 – Aug. 2009 Lahore, Pakistan.

RESEARCH PUBLICATIONS

- 1) Abbasi, H. W., Aftab, W., Shahid, S., Ali, M., Zahid, J., Naz, S., & Ishtiaq, A. (2023). Epidemiological Characteristics, Spectrum of Upper Gastrointestinal Tract Injuries and Burden of Corrosive Intake Patients in A Tertiary Care Hospital in Islamabad. *Life and Science*, 4(2), 6-6. **(HEC Y Category)**
- 2) Akhtar, H., Ishtiaq, A., Chaudhry, M., Khalid, H., Ilyas, M., Maryam, F., ... & Faheem, M. (2023). Quantifying the Impact of Treatments on the Recovery of COVID-19 Patients in Twin Cities of Rawalpindi and Islamabad, Pakistan. *BioScientific Review*, 5(1), 76-86. **(HEC Y Category)**
- 3) Ishtiaq, A. (2020). Dynamics of COVID-19 Transmission: Compartmental-based mathematical modeling. *Life Sci*, 1(5). **(HEC Y Category)**
- 4) Ishtiaq, A., Michel, V., & Scheffler, H. P. (2019). Theory of generalized discrepancies on a ball of arbitrary finite dimensions and algorithms for finding low-discrepancy point sets. *GEM-International Journal on Geomathematics*, 10, 1-45. **(Impact Factor 1.9)**
- 5) Ishtiaq, A., & Michel, V. (2017). Pseudo-differential operators, cubature and equidistribution on the 3D ball: an approach based on orthonormal basis systems. *Numerical Functional Analysis and Optimization*, 38(7), 891-910. **(HEC X Category, Impact Factor 1.4)**
- 6) Akram, M., Amina, I., & Michel, V. (2011). A study of differential operators for particular complete orthonormal systems on a 3D ball. *Int. J. Pure Appl. Math*, 73, 489-506.

HEC FUNDED RESEARCH PROJECTS

Title: "Equidistribution theory on closed sub-domains of a ball with a focus on its numerical applications in Earth and medical sciences"

Amount: PKR 3,65,000

ACADEMIC AWARDS & SCHOLARSHIPS

Following awards and scholarships are secured during my academic studies:

- ☐ **DAAD** Scholarship for Ph.D. (2014)
- ☐ **Gold Medalist** Scholarship for M.Phil. (2009)
- ☐ **Roll of Honor (Gold Medal)** (B.Sc. Hons.) (2009)

R E F E R E N C E S

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Dr. Muhammad Jawad Hassan

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