

Dr. Muhammad Akram
Assistant Professor
Department of Mathematics
GC. University, Katchery Road
Lahore, Pakistan.

Education

Ph. D. Applied Mathematics

December 2008 University of Kaiserslautern, Germany

- **Major:** Constructive Approximation
- **Advisor:** Prof. Dr. Volker Michel
- **Dissertation:** Constructive Approximation on the 3-Dimensional ball With Focus on Locally Supported Kernels and the Helmholtz Decomposition.
- **PhD. Admission Thesis:** Multiresolution Analysis of the Martian Topography, 2005.

M. Phil. Mathematics

May 1997 Bahauddin Zakariya University, Multan, Pakistan.

- **Major:** Functional Analysis
- **Advisor:** Dr. Abdul Rahim Khan
- **Thesis:** Some Studies on Open Mapping and Closed Graph Theorems

M.Sc. Pure Mathematics

January 1994 Bahauddin Zakariya University, Multan, Pakistan.

Teaching Experience

April 2004 – Present

Assistant Professor

GC. University, Lahore, Pakistan

Teaching Assignments:

- Calculus IV, Calculus I & Intermediate Algebra.
- Calculus III, Functional Analysis, Complex Analysis, Real Analysis.
- Used Instructional Technology in class presentations.

July 2000 – March 2004

Lecturer

GC. University, Lahore, Pakistan.

Teaching Assignments:

- Calculus I, Trigonometry, Differential Equations, Vector Analysis

- Calculus II, Real Analysis, Complex Analysis, Discrete Math.

September 1999- July 2000

Lecturer

Al-Khair University
College of Professional Studies,
Multan, Pakistan.

Teaching Assignments:

- Linear Algebra, Discrete Mathematics, Business Math.

September 1997 – September 1999 Visiting Lecturer

University College of
Engineering & Technology, BZU,
Multan.

Teaching Assignments:

- Calculus II, Numerical Analysis and Differential Equations

September 1997 – September 1999 Visiting Lecturer

Al-Khair University
College of Professional Studies
Multan, Pakistan.

Teaching Assignments:

- Linear Algebra, Numerical Analysis, Discrete Mathematics,
Business Math, Mathematical Statistics and Operation Research.

Supervised Theses

M.Phil Thesis

- Azhar. Ali. Zafar: Fixed Point Theorems on a General Class of Contraction Maps, 2003.

Msc. Theses

- Jahan Nawaz: Fuzzy Logic, 2002.
- Erum Jafar: Complex Measures, 2002.
- Farzana Shaheen: Fuzzy Topological Spaces, 2003.
- Imran Baig: Fuzzy Measures, 2003.
- **M. Akram: Constructive Approximation on 3-Dimensional Ball with Focus on Locally Supported Kernels and the Helmholtz Decomposition, (PhD**

Papers/ Publications

Thesis) Shaker Verlage Aachen, Germany, 2009.

- **M. Akram, A. A. Siddiqui, A. A. Zafar: A General Class of Contractions: A-contractions**, Novi Sad J. Math. Vol. 38 No. 1 (2008), pp. 25-33.
- **M. Akram, V. Michel: Locally supported approximate identities on the unit ball**, Schriften zur Funktionalanalysis und Geomathematik, **30** (2006).
- **M. Akram, A. A. Siddiqui, A. A. Zafar: Some fixed-point theorems for a general class of contraction maps**: Journal of Pure and Applied Sciences, Vol. 23, No. 2, December 2004.
- **A. A. Siddiqui, M. Akram, Haque, Ehsan U.: Some axioms that are equivalent to principle of continuous induction**: Journal of Pure and Applied Sciences, Vol. 23, No.1, June 2004.
- **M. Akram, A. A. Siddiqui: A Fixed Point Theorem for A-contractions on a Class of Generalized Metric Spaces**. Korean J. Math. Sciences Vol. 10 (2003) No. 2, pp. 1-5. Available free at (www.kjms.or.kr)
- **M. Akram, A. A. Siddiqui, A. A. Zafar: Some Fixed Point Theorems for Multi-valued A*-Mappings**. Korean J. Math. Sciences Vol. 10 (2003) No. 2, pp. 7-12. Available free at (www.kjms.or.kr)
- **A. A. Siddiqui, M. Akram: Equivalence of Completeness Axiom and Continuous Induction**. Sci. Int. (Lahore), Vol. 13 (2001) No. 3, pp. 211-213.
- **A. R. Khan, N. Hussain, M. Akram: On Open mapping And Closed Graph Theorems**. Punjab University Journal of Mathematics, Vol. XXXi (1998), pp. 95-102.

Talks/ Presentations

- **Talks**
“Constructive Approximation on the 3-D Ball” at Geomathematics Group University of Kaiserslautern, Germany, 2008.
- **Poster**
“Locally supported Kernels on the 3-D Ball”
Geomathematics Workshop, Kaiserslautern (Germany), July 2008.

Awards and Honors

- Awarded Scholarship from HEC Pakistan for PhD Studies.

Academic & Professional

- Member of Academic Council GC. University 2002-2004.
- Member of the Curriculum Committee 2003-2004..
- Member of Departmental Admission Committee 2002-2004

Services

- Joint Secretary of Zakariyan Mathematical Society 1994-1995.

Instruction Technology/ Computer Skills

- Learned and used Instruction Technology like Graphing Calculat.
- C++, MATLAB, LATEX , HTML & MS Office etc.

Professional Memberships

- Punjab Mathematical Society
- Zakariyan Mathematical Society

References

- **Prof. Dr. Volker Michel**

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- **Prof. Dr. Willi Freeden**

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- **Prof. Dr. Abdul Rahim Khan**

Department of Mathematical Sciences

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Dhahran 31261, Saudi Arabia.

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