

Curriculum Vitae

Muhammad Ashfaq Bokhari, PhD

1. Personal Data

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2. Education

University of Alberta, Canada:

Ph.D. Approximation Theory (1986).

Advisor: Professor A. Sharma

Title of Thesis: "Equiconvergence of Approximation Processes"

Univ. of Western Ontario, Canada:

M.A. Analysis (1980).

Concentration: Differential Equations, Functional Analysis,
Real Analysis.

Quaid-e-Azam University, Pakistan:

M.Sc. Pure Mathematics (1975)

Concentration: Algebra, Topology, Differential Equations, Real
Analysis.

University of the Punjab, Pakistan:

B.A. (1972)

Concentration: Mathematics, English

3. Employment History

- 1998- : *Associate Professor of Mathematics*
King Fahd University of Petroleum & Mineral, Saudi Arabia.
- 1997-98: *Associate Professor of Mathematics*
National University of Sciences & Technology, Pakistan.
- 1992-98: *Associate Professor of Mathematics*
King Fahd University of Petroleum & Mineral, Saudi Arabia.
- 1988-92: *Assistant Professor of Mathematics*
King Fahd University of Petroleum & Mineral, Saudi Arabia.
- 1985-88: *Assistant Professor of Mathematics*
Bahauddin Zakariya University, Pakistan.
- 1980-85: *Teaching Assistant*
University of Alberta, Canada.
- 1979-80: *Teaching Assistant*
University of Western Ontario, Canada.
- 1975-79: *Lecturer of Mathematics*
Bahauddin Zakariya University, Pakistan.

4. Teaching

I. Courses taught at KFUPM¹ [with Average Teaching Evaluation]

A. (Undergraduate Courses)

No.	Course Title	Course #	No. of Offerings
	i. Prep-Math Courses (Algebra - Trig)		
1	Prep MATH I	001	1
2	Prep MATH II	002	3
3	Prep MATH I (CAL)	001	2
4	Prep MATH II (CAL)	002	1
	ii. BS Service Courses		
5	Applied Calculus (Diploma)	011	1
6	Calculus I	101	17
7	Calculus II	102	15
8	Recitation MATH 102		2
9	Calculus III	201	16
10	Elements of Differential Equations	202	6
11	Introduction to Differential Equations & Linear Algebra	260	4
12	Introduction to Linear Algebra	280	3
13	Engineering Mathematics	302	2
	ii. Math Major Courses		
14	Advanced Calculus I	311	2
15	Advanced Calculus II	411	2
16	Advanced Calculus III	412	1
17	Introduction to Topology	421	1
18	Introduction to Complex Variables	430	1
19	Numerical Analysis II	472	2
20	Linear & Non-Linear Programming	480	1
21	Seminar in Mathematics	490	1

B. (Graduate Courses)

No.	Course Title	Course #	No. of Offerings
1	Real Analysis	531	1
2	Functional Analysis	535	1
3	Linear algebra	550	1
4	Approximation Theory	575	2
5	Reading & Research (Optimization Techniques)	595	1

¹ Term-wise teaching assignments and respective course evaluation is given in Appendix A.

II. Courses taught at NUST² (Pakistan)

A. BS (Computer & Engineering Programs)

- Calculus
- Methods of Applied Mathematics (Fourier Analysis, Partial Differential Equation, Vector Calculus)
- Complex Analysis.

B. MS (Computer & Engineering Programs)

Numerical Analysis with C-Language

III. Courses taught at BZU³, Pakistan

A. MS (Mathematics Program)

- Group Theory
- Real & Complex Analysis
- Linear Algebra
- Topology
- Measure Theory.

B. M. Phil (Mathematics Program)

Approximation Theory.

IV. University of Alberta, Canada

- Calculus
- Introduction to Differential Equations.

V. Course coordination/Exam committee

- MATH 001 (Term 001-012)
- MATH 002 (Term 993-011)
- MATH 102 (Term 092)
- MATH 260 (Term 992)
- MATH 101 (Term 061)

VI. Course development responsibilities

- MATH 431 (new course in Revised BS Program)
- Graduate Courses in Analysis (for new Ph D Program)
- Prep-Year Math Contents (revised program)
- Calculus sequence courses (Reorganizing the contents)

² National University of Sciences & Technology (Electrical & Mechanical Engineering College)

³ Bahauddin Zakariya University (Centre for Applied & Pure mathematics)

VII. Participation in short courses

No.	Title	Organizer	Year
1	Good Evaluation: A Critical Part of Good Teaching.	KFUPM	1991
2	The Dynamics of Teaching Excellence	KFUPM	1992
3	Motivating Students to Learn.	KFUPM	1993
4	Instructional Technology	DAD	1998
5	Teaching, Learning, Curriculum & Assessment	DAD	1999
6	Preparing to Teach: Instructional Development Program	DAD	2001
7	Introduction to WebCT	DAD	2002
8	Introduction to MATLAB	Math Sc	2003
9	Outcome based Program Assessment	DAD	2004
10	Peer Evaluation	DAD	2006

VIII. Participation in workshops/discussion forums

No.	Title	Organizer	Year
1	Students Learning at KFUPM: Challenges and Opportunities	DAD	1999
2	First Saudi Workshop on University Preparatory Programs	KFUPM	2000
3	Faculty Evaluation by Students Discussion Forum	DAD	2000
4	Striving for Excellence in University Teaching and Learning	DAD	2001
5	Increasing Effectiveness as a University Teacher	DAD	2002
6	Enhancing Student Learning at KFUPM Discussion Forum	DAD	2002
7	Outcome Assessment	DAD	2003
8	Research KFUPM: Challenges and Opportunities Discussion Forum	DAD	2003
9	Faculty and Student Motivation	DAD	2004
10	Using Course Design to Create more Significant Learning Experiences for Students.	DAD	2006
11	Good Learning and Good Teaching: How to promote more of it	DAD	2006
12	Teaching Mathematics in the Prep-Year	Prep-YEAR	2006

IX. Presentations at MATH Education Forum (KFUPM)

- i. **Bokhari, M. A.**, “MATH 202 “Elementary Differential Equations: A Course amid Expectations & Obligations,” Math Education Seminar (October 2002)
- ii. **Bokhari, M. A.**, “Appropriate Utilization of Recitation Hour in MATH 101/102: *Group Activity-An Experience*,” Math Education Seminar (October 2003)
- iii. **Bokhari, M. A.**, Al-Assar, R. and Ibrahim, S., “On freshman calculus recitation hour: A panel discussion I,” Math Education Seminar (March 2004)
- iv. **Bokhari, M. A.**, Al-Assar, R., Ibrahim and S., Laradji, A., “On freshman calculus recitation hour: A panel discussion II,” Math Education Seminar (April 2004)
- v. **Bokhari, M. A.**, “An alternative way to define limit of one variable function,” Math Education Seminar (February 2005)
- vi. **Bokhari, M. A.**, “MATH 202 “Elementary Differential Equations: A Course amid Expectations & Obligations,” Math Education Seminar (October 2002)
- vii. **Bokhari, M. A.**, “Appropriate Utilization of Recitation Hour in MATH 101/102: *Group Activity-An Experience*,” Math Education Seminar (October 2003)
- viii. **Bokhari, M. A.**, Al-Assar, R. and Ibrahim, S., “On freshman calculus recitation hour: A panel discussion I,” Math Education Seminar (March 2004)
- ix. **Bokhari, M. A.**, Al-Assar, R., Ibrahim and S., Laradji, A., “On freshman calculus recitation hour: A panel discussion II,” Math Education Seminar (April 2004)
- x. **Bokhari, M. A.**, “An alternative way to define limit of one variable function,” Math Education Seminar (February 2005)

X. Technical Seminars delivered outside KFUPM

1. **Bokhari, M. A.**, “Walsh Theory of Equiconvergence,” Punjab University Mathematical Society, Pakistan (April 1987).
2. **Bokhari, M. A.**, “On the asymptotic behavior of the zeros of exponential function”, 3rd Ramadhan Math Symposium, Umm-ul Qura University, Makkah, Saudi Arabia (February 1992).
3. **Bokhari, M. A.**, “On least squares approximants”, 1st Annual Meeting, Saudi Arabian Math. Soc. Riyadh, Saudi Arabia (April 1994).
4. **Bokhari, M. A.**, “On Interpolating Least Squares Approximants”, Annual Meeting Saudi Arabian Math. Soc. Riyadh, Saudi Arabia (March 2001).
5. **Bokhari, M. A.**, “On Exponential Polynomial Approximants,” Dept. of Math., QAU, Islamabad, Pakistan (Nov. 1997)
6. **Bokhari, M. A.**, “On interpolating rational functions in the complex domain,” College of E & ME, NUST, Rawalpindi, Pakistan (Feb. 1998)
7. **Bokhari, M. A.**, “Convergence of Interpolating Polynomials,” Dept. Comp. Sc., Math & Stat, American University of Sharjah, UAE. (December 2000)
8. **Bokhari, M. A.**, “On certain approximation problems,” CASPAM, BZU, Pakistan. (January 2006).

XI. Research Visits at the invitation of

1. Prof. A. Sharma, Dept. of Math. Univ. of Alberta, Canada
(July 1986)
2. Prof. A. Sharma Dept. of Math. Univ. of Alberta, Canada
(March 1991)
3. Prof. R. Varga, Inst. Computational Math, Kent State Univ., USA
(April 1991)
4. Prof. A. Sharma, Dept. of Math. University of Alberta, Edmonton,
(July 1998)
5. Prof. A. Sharma, Dept. of Math. University of Alberta, Edmonton,
(July 1999)
6. Prof I. Sadek, Dept. of Math, American Univ. of Sharjah, Sharjah,
(Dec. 2000)
7. Prof I. Sadek, Dept. of Math, American Univ. of Sharjah, Sharjah.
(April, 2006)
8. Prof I. Sadek, Dept. of Math, American Univ. of Sharjah, Sharjah.
(September, 2006)

XII. Conference Attendance

1. Mathematics Conference, Ayubia, **Pakistan**, (July 1974)
2. Urdu Science Conference, Multan, **Pakistan**, (January, 1978)
3. Pakistan Mathematical Society, Karachi, **Pakistan**, (December 1979)
4. Approximation Theory Conference, Edmonton, **Canada** (July 1981)
5. Approximation Theory Conference, Edmonton, **Canada**, (June, 1986)
6. Urdu Science Conference, Hyderabad, **Pakistan**, (February, 1987)
7. 3rd Ramadhan Math Symposium, Umm-ul Qura University, Makkah, **Saudi Arabia** (February 1992).
8. Annual Meeting, Saudi Arabian Math. Soc. Riyadh, **Saudi Arabia** (April 1994).
9. Annual Meeting Saudi Arabian Math. Soc. Riyadh, **Saudi Arabia** (March 2001).
10. First Saudi Science Conference, KFUPM, Dhahran, **Saudi Arabia**
11. AMAM Conference, European Math Soc., University of Nice, **France** (Feb. 2003).
12. First International Conference on Modeling, Simulation and Applied Optimization, American University of Sharjah, Sharjah, **UAE** (Feb. 2005),
13. International Conference on Numerical Analysis and Applied Mathematics, Crete, **Greece** (2005)
14. Third UAE Math Day, University of Sharjah, **UAE** (April 2006).
15. CAIMS-MITACS 2006 Joint Annual Conference, **Canada** (June 2006)
16. International Conference on Numerical Analysis and Applied Mathematics, Crete, **Greece** (2006)

XIII. Administrative Presentations

A. University Level

- i. Progress Report on Prep-Year Math Program (I)
[before Rector & Dean COS] (October 2000)
- ii. Math Learning Centre (with Prof. N. Tabet)
[before Rector & Dean COS] (March 2001)
- iii. Selection of Textbook for Prep-Math Courses
[before Academic Committee] (April 2001)
- vi. Progress Report on Prep-Year Program (II)
[before Rector & Dean COS] (October 2001)
- vi. Progress Report on Prep-Year Program
[before Academic Committee] (October 2001)
- vii. Revised BS Program in Math (with Chairman Math Sc)
[before Academic Committee] (October 2003)

- viii. Transparency-based Teaching for MATH 001
[before VRAA, Dean COS,
Chairman Math, Coordinator PYMP] (May 2005)
- ix. Prep-Year Math Course contents & Teaching Methodology
[before VRAA, Dean COS,
Chairman Math, Coordinator PYMP] (November 2005)
- x. Award Rules for excellence in teaching
[before Academic Committee] (September 2006)

B. College Level

- xi. Report on Prep-Year Math Program (Term 993)
(October 2000)
- xii. Proposed setup for the Prep-Year Math Program
(February 2001)
- xiii. Task Groups & selection of textbook, P-Year Math Program
(April 2001)
- xiv. Review of rules “Award for excellence in teaching”
(April 2006)

C. Department Council

- i. Input from US institutions vis-à-vis holding exams (written, MCQ), credit hours for Calculus Sequence Courses
(October 1993)
- ii. Reorganization of the contents of MATH 102 & 201
(May 1995)
- iii. Salient features of the revised BS program in Math (I)
(June 18 1996)
- iv. Salient features of the revised BS program in Math (II)
(June 23 1996)
- v. Revision for BS program in Math (Complete Document)
(April 1997)
- vi. Process of evaluating textbooks for Prep-Math
(April 2001)
- vii. Activities during the visit of Program Assessment Team
(December 2005)

XIV. Public Lectures (Outside KFUPM)

- i. **Bokhari, M. A.**, “Some suggestions for the improvement of Math and Physics education at the college level”, Faculty of Sciences, Balochistan Univ., Quetta, Pakistan (Aug. 2002)
- ii. **Bokhari, M. A.**, “Development of Mathematics at CIIT: A need not a luxury”, COMSAT Inst. of Information Technology., Islamabad, Pakistan (Dec. 2002)
- iii. **Bokhari, M. A.**, “Four Year BS Program at KFUPM: *An Introduction*”, Vice-Chancellor’s Committee, BZU, Multan, Pakistan (August. 2003)
- iv. **Bokhari, M. A.**, “Preparation for higher studies abroad,” CASPAM, BZU, Pakistan (Dec. 2003)
- v. **Bokhari, M. A.**, “Time Management for Math Courses,” Saudi-Pakistani School, Al-Khobar (June 2004)
- vi. **Bokhari, M. A.**, “Self-Assessment of Academic Programs,” Vice-Chancellor’s Committee, University of Sargodha, Pakistan (August 2005).
- vii. **Bokhari, M. A.**, “King Fahd University of Petroleum and Minerals, Saudi Arabia: *An overview of Administrative and Academic Set-up*,” Vice-Chancellor’s Committee, University of Sargodha, Pakistan (August 2005)

XV. Participation in Organizing Committees

1. **Member** IX International Conference on Approximation and Optimization, Columbia (2008)
2. **Chair** Program Sub-committee: Workshop on Industrial Mathematics, KFUPM, (Feb. 29-Mar. 02. 2004).
3. **Chair** Publication, Site & Registration Committee: Workshop on Algebra & Applications, KFUPM, (Oct. 1999).
4. **Organizer**: One-day Instructors’ Workshop for Pre-Year Math Program, KFUPM, and (Sept 2000; Jan. 2001; Jan. 2002).
5. **Organizer**: 3-day Instructors’ Workshop for Pre-Year Math Program, KFUPM with the Author of the P-Y Math Textbook as key-note speaker (August 2001)
6. **Member** Organizing Committee: Urdu Science Conference, BZU, Pakistan, (Feb 1978).