

— *Maher Marzuq, Ph.D.* —

German Jordanian University
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Date of Birth: December 12, 1949

Academic Rank: Associate Professor. **Year Rank Obtained:** (December 26, 1987)

PROFILE

Experienced Mathematics Professor with substantial teaching, research, and University service. Former Associate Professor with Ph.D. from New York State University. Research specialty in complex analysis and functional analysis. Numerous publications, including recent paper in Global Journal of pure & applied sciences and Technology and presentation at American Mathematical Society Spring Western Section Meeting. Talented and committed teacher with ability to teach all levels.

EDUCATION

STATE UNIVERSITY OF NEW YORK AT BUFFALO, Buffalo, NY 14260

Ph.D. Mathematics, September 1st 1982

Dissertation Title:

“Properties of Functions on Bound Star-Shaped Circular Domains in C^N ($N>1$)”

Emphasis: Several Complex variables analytic spaces

Ph.D. Advisor: Professor Josephine Mitchell

M.A. Mathematics, February 1st 1979

KUWAIT UNIVERSITY, Kuwait, Kuwait 13060

M.Sc. Mathematics May 16th 1976

~ Research Scholarship

Thesis Title: “Integrability of Trigonometric Series:”

Emphasis: Fourier analysis

M.Sc. Advisor: Professor Syed M. Mazhar

B.Sc. Mathematics, June 18th 1972

~ Excellent with Second Class Honors

Major: (General Degree) Mathematics in (Pure & Applied Math)

PROFESSORSHIP

GERMAN JORDANIAN UNIVERSITY, Amman, Jordan 11180

9/2011- Now

Associate Professor

- Educated college-level students in various math coursework including Algebra, Calculus, Abstract Algebra, and Contemporary Mathematics.
- Evaluated student performance levels and recommended augmentations in study habits, which resulted in improved academic performance levels.
- Provided education counseling and recommendations as advisor to students.

ADDITIONAL UNIVERSITY EXPERIENCE (Continued)

MOUNT OLIVE COLLEGE, Mount Olive, NC 28365 8/2008-5/2010

Associate Professor

- Educated college-level students in various math coursework including Algebra, Calculus, Abstract Algebra, and Contemporary Mathematics.
- Evaluated student performance levels and recommended augmentations in study habits, which resulted in improved academic performance levels.
- Provided education counseling and recommendations as advisor to students.
- Engaged in research on Function Theory and awaiting publication in mathematical journals.
- Presented research paper On Class of Spaces of Holomorphic and Puriharmonic Functions on Bounded Symmetric Domains in C^N ($N>1$) at the American Mathematical Society Conference in Raleigh, North Carolina, April 5, 2009.

BRIDGEWATER STATE COLLEGE, Bridgewater, Massachusetts 02325 9/2006-5/2007

Visiting Associate Professor

GULF UNIVERSITY FOR SCIENCE & TECHNOLOGY, Hawally, Kuwait 32093 2/2004-9/2006

Associate Professor

- Served on Hiring Committee, Curriculum Committee, Textbook Committee, and Research and Development Committee.
- Acted as Program Coordinator for calculus.

UNIVERSITY OF MASSACHUSETTS AT DARTMOUTH, N. Dartmouth, MA 02747 1/2000-12/2003

Visiting Professor

- Conducted research in complex analysis and functional analysis.

BRISTOL COMMUNITY COLLEGE, Fall River, Massachusetts 02720 9/1999-9/2003

Adjunct Faculty

QUINCY COLLEGE, Quincy, Massachusetts 02169 9/1991-5/2002

Adjunct Faculty

KUWAIT UNIVERSITY, Kuwait, Kuwait 13060 9/1983-9/1990

Associate Professor Year Rank Obtained (December 26, 1987)

- Acted as Program Coordinator for calculus to set curriculum and course frameworks.
- Held seminars for colleagues on Fourier analysis and complex analysis with single and multiple variables.
- Sat on Textbook Selection Committee.
- Engaged in research on complex analysis and published material in various mathematical journals.

➤ **YARMOUK UNIVERSITY**, Irbid, Jordan 21163 9/1982-9/1983

Assistant Professor

Key Courses Taught:

- Abstract Algebra
- Applied Statistics
- Beginning and Intermediate Algebra
- Calculus I, II, III, Pre-Calculus
- Calculus Concepts for Business Students
- Calculus of Several Variables
- Complex Analysis
- Complex Variables
- Contemporary Math
- Developmental Arithmetic
- Differential Equations
- Discrete Mathematics
- Finite Mathematics
- Linear Algebra
- Probability & Statistics I & II
- Real Analysis
- Remedial Math
- Set Theory and Logic
- Statistics and Applied Statistics
- Trigonometry

PUBLICATIONS

Maher Marzuq. A Note on Linear Functional in A^p Space. Canadian Journal of pure & applied sciences (CJPAS).MS ID: CJPAS-2044, Issue 2, (June 2012).

Maher Marzuq. Note on the space B^p ($0 < p < 1$). International Journal of Pure and Applied Sciences and Technology (IJPAST) Vol. 8, No. 2, (Feb 2012),pp.71-77.

Maher Marzuq. Inclusion relation between B^p, H^p and B^1, C^N ($N > 1$) on bounded symmetric domain. Global Journal of Pure & Applied Science and Technology (GJPAST) Vol.2 Issue 1, Jan-Feb (2012), 1-4.

Maher Marzuq. A Note on Convergence in Bergman spaces over bounded symmetric domains in C^N ($N > 1$). Math Rep. Toyama University Vol. 34(2011), 87-91.

Maher Marzuq. Remark on Bergman Spaces on C^N ($N > 1$). Global Journal of Pure & Applied Science and Technology (GJPAST) Vol.1 Issue 3, Nov-Dec (2011), 12-15.

Maher Marzuq. On a class of spaces of holomorphic and pluriharmonic functions on bounded symmetric domains in C^N ($N > 1$). Bulletin of the Allahabad Mathematical Society (BAMS), Vol. 26, Part 1, (2011), 189-200.

PUBLICATIONS (Continued)

Maher Marzuq. A Note on L^p_- Convergence of Certain Cosine Sums. Canadian Journal of pure & applied sciences (CJPAS) Vol. 5, Issue 3, (Oct 2011), 108-112.

Maher Marzuq. Interpolation sequences for the spaces $H^q_+(\varphi)$ ($q \geq 1$). Math Rep. Toyama University, Vol. 33(2010), 43-53.

Maher Marzuq. Integrability theorems of trigonometric series, Math Rep. Toyama University Vol.28 (2005), 1-9.

Maher Marzuq. Integrability theorem of multiple trigonometric series. J. of Math. Anal. and Appl. 157 (1991), 337-345.

Maher Marzuq. Linear functional on some weighted Bergman spaces. Bull. Austral. Math. Soc. 42 (1990), 417-425.

Maher Marzuq. Integral formula for holomorphic and pluri-harmonic functions on circular star-shaped domains. J. Univ. Kuwait (Sci.) 15 (1988), 1-7.

Maher Marzuq. Relation between Hardy and Bergman spaces for the polydisc. J. Univ. Kuwait (Sci.) 13 (1986), 21-26.

Maher Marzuq. Some inclusions relations between Hardy and Bergman spaces for the unit ball. Math. Rep. Toyama Univ. Vol.9 (1986), 25-32.

Maher Marzuq. Some properties of functions in the space \tilde{A}^p over star-shaped circular domain in C^N ($N > 1$). Tamkang J. Math. 17 (1986), 39-44.

Maher Marzuq with W. Deeb, H. (Φ) spaces. Cand. Math. Bull 29 (1986), 295-301.

Maher Marzuq with A. Awad. Characterization of distributions through maximization of α_- entropies. J. Math. Of Control and Information 3 (1986), 1-7.

Maher Marzuq with W. Deeb and R. Khalil. Isometric multiplication of Hardy-Orlicz spaces. Bull. Austral. Math. Soc. 34 (1986), 177-189.

Maher Marzuq. Function spaces on the unit ball. Chinese J. Math. 13 (1985), 223-238.

Maher Marzuq. Bergman spaces on bounded symmetric domains. Kyungpook Math. J. 25 (1985), 167-171.

Maher Marzuq. Lipschitz spaces of holomorphic functions on bounded symmetric domains in C^N ($N > 1$). Math Rep. Toyama Univ. Vol.8 (1985), 57-68.

PUBLICATIONS (Continued)

Maher Marzuq. General form of linear functionals in A^p spaces over irreducible bounded symmetric domains in C^N ($N > 1$). Chinese J. Math 12 (1984), 97-103.

Maher Marzuq. Remarks on Bergman spaces over bounded star-shaped domains in C^N ($N > 1$). J. Univ. Kuwait (Sci.) 11 (1984), 207-209.

Maher Marzuq. Bergman spaces for the solutions of linear partial differential equations. Rev. Colombiana Math. 18 (1984), 137-143.

Maher Marzuq. L-convergence of certain cosine sums. J. Univ. Kuwait (Sci.) 2 (1975), 9-10.

PRESENTATIONS

A Note on L^p Convergence of Certain Cosine Sums, 2011 Spring Western Section Meeting Las Vegas, NV, April 30-May 1, 2011(Saturday-Sunday) Meeting #1071-42-130.

Interpolation Sequence for the Spaces $H_+^q(\varphi)$ ($q \geq 1$) AMS Sectional Meeting Program (2010 Spring Southeastern Sectional Meeting) Meeting # (1057-30-399) University of Kentucky, Lexington, KY, March 27-28, 2010.

On a class of spaces of holomorphic and pluriharmonic functions on bounded symmetric domains in C^N ($N > 1$). AMS Sectional Meeting Program (2009 Spring Southeastern Section Meeting) Meeting # (1048-32-08) North Carolina State University, Raleigh, April 4-5, 2009.

Integrability theorems of trigonometric series. Special session on Approximation Theory organized by 1010-The Meeting of The American Mathematical Society, East Tennessee State University, October 15-16, 2005.

Interpolation sequences for the spaces $H_+^q(\varphi)$ ($q \geq 1$). Mathematics Colloquium, University of Massachusetts at Dartmouth, N. Dartmouth, MA, November 19, 2003.

On a class of spaces of holomorphic and pluriharmonic functions on bounded symmetric domains in C^N ($N > 1$). Mathematics Colloquium, University of Massachusetts at Dartmouth, N. Dartmouth, MA, May 7, 2003.

Interpolations sequences for Orlics spaces. Centennial Meeting of the American Mathematical Society, August 8-12, 1988.

Some inclusions relations between Hardy and Bergman spaces for the Unit ball. Mathematical Analysis Conference, Kuwait University, December 18-21, 1985.

WORKS WHICH REFER TO THE RESEARCH OF DR. MARZUQ

Ajay K. Sharma, Compact Composition Operators on Generalized Hardy Spaces, Georgian Mathematical Journal, Volume 15 (2008), Number 4, 775-783.

Mark Lengfield, A nested Embedding Theorem for Hardy-Lorentz Spaces with Applications to Coefficient Multiplier Problems, Rocky Mountain Journal of Mathematics, Volume 38 (2008), Number 4, 1215-1251.

Lu Qun, Cao Guang Fu, Multiplication Operator in Orlicz Space, Acta Mathematica Scientia 26(1), (2006), 124-128.

Martin Zinner, Some topics in Bergman spaces with normal weights, Fakult fur Mathematik und Informatik der Fern Universitat in Hagen, Dissertation, (2006).

Marc Lengfield. Envelopes, duality, and multipliers for certain non-locally convex Hardy-Lorentz spaces. Dissertation. Florida State University (2004).

Chang-Pao Chen and Dah-Chin Luor, Two λ -parameter Hardy-Littlewood inequality and its variants Studia Mathematica 0-27 139(1) (2000).

Chang-Pao Chen and Xin-Rong Huang. Weighted Integrability of double trigonometric series. Proc. Amer. Math Soc. 127, number 5 1463-147, (1999).

Chang-Pao Chen and Chin-Cheng Lin. Integrability, Mean Convergence, and Parseval's Formula for Double Trigonometric Series. Taiwanese Journal of Mathematics Vol. 2, No. 2, pp. 191-212, June (1998).

Chang-Pao Chen. Weighted Integrability and L^1 convergence of multiplier trigonometric series. Studia Mathematica. 109 (2), (1994).

Oscar Blasco, Operators on weighted Bergman spaces ($0 < p \leq 1$) and applications, Duke Math j, Volume 66, Number 3 (1992), 443-467.

Clinton J. Kolaski. On Weighted Bergman Spaces over star-shaped circular domains. J. Univ. Kuwait (Sci.) 18, (1991).

Manfred Kracht and Erwin Kreyszig. Methods of complex analysis in partial differential equations with applications. Canadian Mathematical Society Series of Monographs and Advanced Texts. John Wiley & Sons, N.Y. (1988).

Morisuke Hasumi and Saburo Katoaka. Remarks on Hardy-Orlicz classes. Arch. Math. 51 (1988), 455-463.

R. Khalil. Internal. J. Math. & Math. Sci. 9 (1986), 429-434.

WORKS WHICH REFER TO THE RESEARCH OF DR. MARZUQ (Continued)

J.W. Garrett, C.S. Rees and C.V. Stanojevic. L^1 Convergence, of Fourier series with coefficients of bounded variation. Proc. Amer. Math Soc. 80 (1980), 423-430.

N. Singh and K.M. Sharma. Convergence of certain cosine sums in a metric space L. Proc. Amer. Math. Soc. 72 (1978), 117-120.

ONGOING RESEARCH**Pending Publications:**

- A generalization of a dual theorem of Hardy and Littlewood over bounded circular domain on C^N ($N > 1$).

Other Ongoing Projects:

- Bounds for Biholomorphic functions on bounded symmetric domains in C^N , generalizing such bounds for 1 complex variable
- Integrability theorems in 1 and 2 variables in Fourier series and power series
- Properties of $A^{p,\alpha}$, B^{pq} spaces of solutions of linear partial differential equations given by integral operators.
- Estimations for the Fourier coefficients of a function $f \in B_{pq\lambda}$, where $B_{pq\lambda}$ ($0 < p < \infty$ and $0 < \lambda < \infty$) are Lipschitz spaces of holomorphic and pluriharmonic on bounded symmetric domains in C^N ($N > 1$).
- Functional analytic properties of solutions given by Bergman integral operator.
- Convergence in Bergman Space in Bounded Symmetric Domain.

EDITORIAL POSITIONS

- Editorial Board member for International Journal of Statistics & Systems (IJSS), 2005
- Reviewer, Mathematical Reviews, 1986-Present

AFFILIATION

- Member, American Mathematical Society, 1976-Present