

Mohammad A. AlQudah

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EXPERIENCE

German Jordanian University, Amman, JO

Jan '19 – Present Associate Professor
Sept '15 – Dec '19 Assistant Professor
Oct '17 – Mar '19 Vice Dean of Student Affairs
Oct '17 – Mar '19 Director, Career Guidance and Alumni Office/King Abdullah II for
Development (GJU office)
Oct '17 – Dec '19 DSA Dean Assistant for Industrial Relation

Hochschule Niederrhein, University of Applied Sciences, Germany

Summer 2017: Visiting Scholar, Institute of Modelling and High-Performance Computing (IMH)

Northwood University, Midland, MI, USA

Sept '15 – Dec '15: Online/Remote Adjunct Faculty of Mathematics
Jun '11 – Aug '15: Chair, Department of Mathematics and Natural Science
Jan '11 – Aug '15: Assistant Professor
Mar '12 – Dec '12: Data Analyst, The National Automobile Dealers Association (NADA)

Virginia Union University, Richmond, VA, USA

Aug '10 - Dec '10: Visiting Assistant Professor/Postdoctoral

Central Michigan University, Mount Pleasant, MI, USA

Aug '08 - Aug '10: Doctoral Research Fellowship
Aug '04 - Aug '08: Teaching assistant

Yarmouk University Model School, Irbid, Jordan

Aug '00 - Aug '04: Instructor

EDUCATION

Doctor of Philosophy (Mathematics)

Master of Arts (Mathematics)

Central Michigan University, Mount Pleasant, MI, USA

Master of Science (Applied Mathematics)

Jordan University of Science and Technology, Irbid, Jordan

Bachelor of Science (Mathematics)

Yarmouk University, Irbid Jordan

RESEARCH INTERESTS:

- Approximation Theory, Special Functions, Numerical Analysis, Classical Polynomials, Computer Aided Geometric Design, Splines, Fractional Calculus, Statistics, Data Sciences, Big Data Analysis.
- The Best Approximation of vector valued functions by polynomials with coefficients in vector spaces, along with Lipschitz constants, Strong Uniqueness, and Chebyshev and almost Chebyshev subspaces. Currently, I am working on the best approximation and Lipschitz constant in generalized Haar spaces.
- Moreover, I have some interest in classical orthogonal bivariate polynomials. I do have some thoughts to construct classical orthogonal bivariate polynomials with respect to some weight functions on triangular domains. Those polynomials will be given in the Bernstein basis form to preserve many geometric properties of the Bernstein polynomial basis. Attempts will be made to prove that bivariate polynomials form an orthogonal system over the triangular domain T with respect to a weight function.