

Habeeb Abed Kadhim Aal Rkhais | University of Thi-Qar

Department of Mathematics | College of Computer Science and Mathematics

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Education

- **Florida Institute of Technology (FIT)** Melbourne, Florida, USA
PhD Applied Mathematics *Graduated 2018*
 - Dissertation Topic: Qualitative Theory of Nonlinear PDEs
 - Core Courses: Introductory Analysis, Real Variables, Theory of Ordinary Differential Equations, Numerical Analysis, Theory of Complex Variables, Partial Differential equations I, Numerical Methods for Partial Differential Equations, Functional Analysis, Partial Differential Equations II
- **University of Babylon** Babylon, Iraq
MSc. Mathematical Sciences *Graduated 2009*
 - Thesis Topic: Approximation Theory and Functional Analysis
 - Core Courses: Functional Analysis, Measure Theory, General Topology, Topological Dynamic, Dynamical Systems, Mathematical Statistic, Advanced Probability, Multivariate
- **Mosul University** Mosul, Iraq
B. Sc. Mathematics *Graduated 2003*
 - Undergraduate Research Topic: Abstract Algebra
 - Core Courses: Calculus, Advanced Calculus, Differential Equations, Foundation of Mathematics, Finite Mathematics, Linear Algebra, Abstract Algebra, Topology, Complex Analysis, Functional Analysis, Numerical Analysis, Matlab Programming, Probability, Mathematical Statistics, Stochastic Process and Graph Theory

Work Experience

- **Department of Physics and Chemistry | College of Science** Thi-Qar University
Undergraduate Teaching *Sept. 2004 - Nov. 2009*
 - Calculus.
 - Numerical Analysis with Matlab Programming.
 - Ordinary Differential Equations.
 - General Programming.
- **Department of Mathematics | College of Computer Science and Mathematics** Thi-Qar University
Undergraduate Teaching *Jan. 2010 - Oct. 2012*
 - Real Variables.
 - Foundations of Mathematics.

Publications

- Habeeb Aal Rkhais, On the Qualitative Theory of the Nonlinear Degenerate Second Order Parabolic Equations Modeling Reaction-Diffusion-Convection Processes, Florida, USA, 2018.
- Habeeb A. Kadhim, On Best Trigonometric Approximation in L_p Space, Journal of College of Education for Pure Science, (2), 2012, 3–8.
- Habeeb A. Kadhim, On Moduli of Smoothness of Bernstein's Polynomials in $L_p(\mu)$, Journal of University of Thi-Qar, (8) 2012, 1–10.
- Habeeb A. Kadhim, On Coconvex Approximation in $L_p[-1, 1], 0 < p < +\infty$, ICMA, (4)37 2011.

Conferences and Activities

International Conference in Mathematics and its Applications(ICMA) in Basra, Iraq March 2011
Research Symposium in department of mathematical sciences supported by NSF in FIT June 2017
American Mathematical Society(AMS) Conference in Orlando, Florida October 2017
Joint Mathematics Meetings (JMM) Conference in San Diego, California January 2018
Research Symposium in department of mathematical sciences supported by NSF in FIT March 2018

Research Experiences and Interests

- Nonlinear Partial Differential Equations
 - Mathematical Physics and Modeling, Qualitative theory for nonlinear equations, free Bounadry and control problem, degenerate parabolic equations
 - Computational Science and numerical schemes for PDEs
- Approximation Theory
 - the Best Approximation Methods
 - Developing the Modulus of Smoothness
- Software and Programming
 - MATLAB, \LaTeX , C and C++