

Manal Abdulaziz Fahad AlFulaij

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Citizenship: Saudi Arabia.

Research interests

Nonlinear PDE's, Blow-up in PDE's.

Education

King Saud University

Riyadh, Saudi Arabia

PhD in Applied Mathematics

2020 – 2025

Supervisor/Co-Supervisor: Professors: Mohamed Jleli/Bessem Samet.

King Saud University

Riyadh, Saudi Arabia

MSc in Mathematics(Complex Analysis in n-variables)

2007 – 2011

Supervisor: Professor Nabil Ourimi.

King Saud University

Riyadh, Saudi Arabia

BSc in Mathematics

2003–2007

Supervisor: Dr. Ebtisam Bajunaid

Honors

Award for the best graduation research in BSc sharing with my colleague Maha Almousa , supervisor Dr. Ebtisam Bajunaid .

2007

Publications

A hyperbolic Polyharmonic System in an exterior domain

Manal AlFulaij, Mohamed Jleli and Bessam Samet.

AIMS Mathematics, 2025.

Existence and nonexistence results for higher order evolution inequalities posed outside the half-ball

Manal AlFulaij, Mohamed Jleli.

Discrete and Continuous Dynamical Systems, 2024.

Blow up Results For Evolution Inequalities in Some Specific Domains

Manal AlFulaij, Mohamed Jleli.

PhD Thesis, 2025.

Scaling techniques and its applications to the mapping and corresponding

Manal AlFulaij, Nabil Ourimi.

MSc Thesis, 2011.

Measure and Integration An Introduction To Real Analysis

Manal AlFulaij, Maha Almousa, .

Work experience

1-Starting as demonstrator (in 2008) and then Lecturer (in 2017-2026), wide experiences in teaching(either giving lecture or tutorial) most courses for math students in BSc level including: -All courses in Analysis (Real Analysis I and II, Complex Analysis, Multivariable Analysis, Numerical Analysis) and Topology , -Pre-Calculus (all courses), Calculus, Linear Algebra, Discrete Mathematics, Differential Equations, Number theory, Foundation of Mathematics, Mathematical Methods.

2-Worked on program for math student who struggles in Real Analysis in 2012 (the target was achieved)

3-Working as supervisor of the Math-Club since 2015-Now.

4-Represented Mathematics Department in (Masari) program for preparatory year students in 2019.

5-Member of some committees such as teaching assistants and lecturers and Conferences committee .

Teaching experience

Teaching assistant, Department of Mathematics (King Saud University) 2008-2017.

**Lecturer, Department of Mathematics (King Saud University) 2017-2026.
Assistant Professor, Department of Mathematics (King Saud University) 2026.**

**Advance courses in
MSc and PhD**

Functional Analysis-Measure Theory-Theory of Modules-Topology and Calculus in R^N -Topological Vector Spaces-Complex Analysis in one and several dimensions -Summability Theory-Distribution Theory-Methods in Fluid Mechanics-Quantum Mechanics-Numerical Solutions of PDE and ODE.

Workshops

1- Full semester (almost 4 months) provided by Support for Demonstrators, Lectures and Scholars including English course, IT course, and self-development courses.

2-Course in Mathematica Program supported by Physica club.

3-Many useful programs provided by Student Skills Development Center (Deanship of Students Affairs) such as The power of goal achievement,- Personal analysis,- Hermann scale.

4-Many useful courses provided by Deanship of Skills Development such as The Scientific Approach for Writing Dissertations 12 training hours,- Building Confidence 12 training hours,- Problem Solving and Decision Making 12 training hours.

5-Courses in English from British Council for 6 months (A grade

6-IBM Data Analysis Professional Certificate .

7-Many online courses for self development and improve the quality of life.

8-ChatGPT in Research from King Abdullah Institute for Research and Consulting studies at King Saud University.

9-Create digital content using Course Lab program, 5 Hours training.

10-Course training "Math for AI" provided by SDAIA cooperated with SAMA, 30 Hours /Jan 2024.

11-Workshop in SciSpace for Science Research/ Feb 2024.

12-Climate Change Simulation Game (King Saud University cooperate with European Union) 4-5 March 2024 6 hours training.

13-Introduction to SPSS program-King Saud University-5-6 March 2024 hours.

13-Make Sense of Data-A Practical Guide to Qualitative Statistics for Non-Specialists (from Donewise Academy)/ Jan 2026.

14-Artificial Intelligence Skills Accelerator (28 Learning Hours completed-6 Digital credential earned) Provided by the AI Center for Advanced Studies in collaboration with IBM, 2026.

15-Data Visualization using Power BI (5 hours)-Deanship of Skills Development-April 2026

16- Data analysis using artificial intelligence presented by the Artificial Intelligence Lab at the College of Science, King Saud University - April 2026.

Skills

Programming

Proficient in: Latex .

Familiar with: Microsoft.

Languages

Arabic (fluent), English (advanced)

Membership

Member in Saudi Association for Mathematical Sciences (SAMS). . 2023
– Present

Personal Skills

-Strengths: Leadership-Solve Difficulties-Challenges management-Creativity -Content writer for many places such as Ministry of Culture and lots of companies-Flexibility-Ability to learn with passion-Patience and Wisdom-Ability dealing with others-A good listener. -Weakness: Easy losing focus (under improvement)

Other interests

A good tennis player.