

Manal Abdulaziz Fahad AlFulaij

Updated February 17, 2026

Email: malfaleg@ksu.edu.sa

Homepage at KSU: malfaleg

Office: Building 5 room 343,3rd floor

Phone: (+966) 506497300

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, .

Graduation Project, 2007.

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.

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.