

## **Dr. Reem Khaled Al-Hefthi**

Associate Professor – Department of Mathematics

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### **Education**

Ph.D. in Mathematics, King Saud University – College of Science

Major: Mathematics | Date: 25 Jan 2015 (25/1/1436) | Grade: Excellent

M.Sc. in Mathematics, King Saud University – College of Science

Major: Mathematics | Date: 16 Aug 2006 (21/7/1427) | Grade: Excellent

B.Sc. in Mathematics, King Saud University – College of Science

Major: Mathematics | Date: 17 May 2001 (24/2/1422) | Grade: Excellent

Diploma in Computer Programming, Institute of Public Administration –

Major: Computer Programming | Date: 16 Jun 1995 (23/1/1416) | Grade: Excellent

### **Academic Positions**

Associate Professor, King Saud University (Dec 2024 – Present)

Assistant Professor, King Saud University (Mar 2015 – Dec 2024)

Lecturer, King Saud University (Dec 2004 – Mar 2015)

Teaching Assistant, King Saud University (Feb 2003 – Dec 2004)

### **Administrative Roles**

- Vice Chair, Department of Statistics and Operations Research (2015 – 2019)
- Deputy Chairperson, Board of Directors, Saudi Mathematical Sciences Society (SAMS) – Since March 4, 2020
- Chair, Organizing Committee, 6th Mathematics Conference, Saudi Mathematical Society – 2025
- Member, Supervisory Committee, 6th Mathematics Conference, Saudi Mathematical Society – 2025
- Head of Graduate Studies Committee, Department of Mathematics – Since 2019
- Member, Graduate Studies Committee, College of Science – Since 2019

- Member, Scientific and Evaluation Committees, (SAMS) Award for Leadership in Mathematics – 2020
- Member, Administrative and Technical Restructuring Committee, College of Science – 2020
- Founding Member, Executive Master's Program in Actuarial and Financial Mathematics – 2020
- Head of Accreditation committee for Graduate Studies, Department of Mathematics – 2024
- Member of Accreditation committee for Graduate Studies, Department of Mathematics – Since 2022

### Publications

Al-Hefthi, R. K.; Siddiqui, A. A.; Jamjoom, F. B. (2014). Quasi Jordan Banach Algebras, *Abstract and Applied Analysis*, vol. 2014, Article ID 690806, 11 pages. DOI: [10.1155/2014/690806](https://doi.org/10.1155/2014/690806)

Munawar Abbas, Nargis Khan, M.S. Hashmi, Reem K. Alhefthi, Shahram Rezapour, Mustafa Inc, (2024). Thermal Marangoni convection in two-phase quadratic convective flow of dusty MHD trihybrid nanofluid with non-linear heat source, *Case Studies in Thermal Engineering*, Vol. 57, DOI: [10.1016/j.csite.2024.104190](https://doi.org/10.1016/j.csite.2024.104190).

Muhammad Bilal, Jingli Ren, Mustafa Inc, Reem K Alhefthi. Optical soliton and other solutions to the nonlinear dynamical system via two efficient analytical mathematical schemes. *Opt Quant Electron* **55**, 938 (2023). DOI: [10.1007/s11082-023-05103-1](https://doi.org/10.1007/s11082-023-05103-1)

Alhefthi, R. K., & Eltayeb, H. (2023). The Solution of Coupled Burgers' Equation by G-Laplace Transform. *Symmetry*, *15*(9), 1764. <https://doi.org/10.3390/sym15091764>

Additional publications available on Google Scholar and ORCID.

### Scientific Participation

- Presented 'Homotops of Quasi Jordan Algebras' at the 4th Mathematics and Its Applications Conference, April 2018.
- Presented 'Quasi Jordan Algebras with Involution' at 5th Mathematics Day, Princess Noura University, Feb 2020.
- Judge and Speaker, 'Math Thinking Week and Women in Mathematics', International Mathematics Master, Malaysia, Sept 2021.

### **Selected Training Courses & Workshops**

Including Academic Leadership Essentials, Quality and Accreditation Practices, Strategic Planning Skills, TRIZ Theory for Creative Problem Solving, Women's Leadership Development Program, Knowledge Management in Higher Education, and Academic Advising Skills at King Saud University (2015–2020).

### **Honors & Recognitions**

- Excellent rating in all academic degrees (B.Sc., M.Sc., Ph.D.)
- Certified Practitioner in Academic Accreditation – King Saud University (2020)
- Judge, King Faisal International Prize (2025)

### **Languages**

Arabic – Native

English – Excellent proficiency