

CURRICULUM VITAE

PERSONAL DATA:

Last Name: Alrashdi.
First Name: Huda
Nationality: Saudi
Marital Status: Married
Gender: Female

Current Address:

Department of Mathematics, College of Science
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Languages: Arabic (native) and English.

EDUCATION:

- **Bachelor's Degree in Science and Education, Major in Mathematics, College of education departments (princess Nourah Abdul Rahman University; Now), Riyadh, Saudi Arabia, 2004.**
- **Master'd Degree, Major in Discrete Mathematics, King Saud University, Riyadh, Saudi Arabia, 2011.**

My thesis was titled "Demonic operators on fuzzy relations with illustration Mathematica". For this thesis I was supervised by Dr. Fairouz Tchier.

- **PhD Degree, Major in Discrete Mathematics, Sydney University, Sydney, Australia, 2019.**

My thesis was titled "q-discrete Painleve equations, Hierarchies and their properties". For this thesis I was supervised by Prof. Nalini Joshi.

WORK HISTORY:

Assistant of Professor, at King Saud University, from 5-5-1441 unti date.

Lecturer, King Saud University, from 26-7-1440 unti 5-5-1441.

Demonstrator, at King Saud University, from 26-3-1430 until 26-7-1440.

Collaborator, at Imam Mohammad Ibn Saud Islamic University in the first semester of (1429-1430).

Collaborator Teacher, at Arka high school girls in second semester (1425-1426).

PUBLICATIONS:

- Huda Alrashdi and Fairouz Tchier : *Demonic Fuzzy Operators, Recent Advances in Neural Networks, Fuzzy Systems & Evolutionary Computing* **June** (2010) : 149-156.
 - Huda Alrashdi, Nalini Joshi & Dinh Thi Tran : Poster about Hierarchies of discrete qP_{II} , qP_{III} , qP_{IV} and their properties, in the thirteenth in a series of biennial conferences devoted to Symmetries and Integrability of Difference Equations (SIDE 13) in Fukuoka Japan (2018).
 - Huda Alrashdi, Nalini Joshi & Dinh Thi Tran: Hierarchies of q -discrete Painleve` equations , *Journal of Nonlinear Mathematical Physics*, **27** (2020), no. 3, 453-477.
 - Huda Alrashdi (**PhD thesis**) q -discrete Painleve` equations: their hierarchies and properties, *Bulletin of the Australian Mathematical Society*, **103** (2021), no. 2, 333-334.
 - Mujahid Iqbal, Jianqiao Liu, Aly R. Seadawy, Huda Daefallh Alrashdi, Reem Algethamie, Abeer Aljohani, Ce Fu: Analysis of periodic wave soliton structure for the wave propagation in nonlinear low-pass electrical transmission lines through analytical technique, *Ain Shams Engineering Journal*, **16** (2025) 103506.
 - Mujahid Iqbal, Waqas Ali Faridi, Huda Daefallh Alrashdi, Abeer Aljohani, Muhammad Amin S. Murad, Nazar Mohammad & Abdullah S. Alsubaie: Nonlinear behavior of dispersive solitary wave solutions for the propagation of shock waves in the nonlinear coupled system of equations, *Scientific reports*, **15** (2025) 27535.
 - Mujahid Iqbal, Jianqiao Liu, Waqas Ali Faridi, Huda Daefallh Alrashdi, Abeer Aljohani, David Yaro, Salma Aljawi & Abdullah Saad Alsubaie: Exploring the optical soliton and solitary wave solutions for the nonlinear Akbota equation via improved expansion approach; *AIP Advances*, **15** (2025) 095101.
 - Mujahid Iqbal , Jianqiao Liu , Aly R. Seadawy , David Yaro , Huda Daefallh Alrashdi , Abeer Aljohani & Ce Fu; Exploring the peakon solitons molecules and solitary wave structure to the nonlinear damped Korteweg-de Vries equation through efficient technique, *Open Physics*, **23** (2025) 20250198.
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Attended Conference:

- Attending the 61st annual meeting of the Australian Mathematical Society at the Department of Mathematics at Macquarie University, New South Wales. Australia (2017).
 - Attended the WIMSIG Conference 2017: Celebration of Women in Australian Mathematical Sciences, Adelaide, Australia.
 - Attended the third annual Integrable Systems Workshop on 3 – 4 December 2015, at the School of Mathematics and Statistics, the University of Sydney.
 - Attended the fourth annual Integrable Systems Workshop on 1 – 2 December 2016, at the School of Mathematics and Statistics, the University of Sydney.
 - Attended the fifth annual Integrable Systems Workshop on 7 – 8 December 2017, at the School of Mathematics and Statistics, the University of Sydney.
 - Attended the sixth annual Integrable Systems Workshop on 29 – 30 November 2018, at the School of Mathematics and Statistics, the University of Sydney.
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Training courses:

- 1- Fifteenth foundational session for new faculty members, from 10 Oct to 11 Oct 2021.
- 2- Workshop (Quality Practitioner and Academic Accreditation Preparation Program): Program and course specifications, from 6 Oct to 7 Oct 2021.
- 3- Workshop (Quality Practitioner and Academic Accreditation Preparation Program): Program Accreditation Standards, from 29 Sep to 30 Sep 2021.
- 4- Workshop (Quality Practitioner and Academic Accreditation Preparation Program): Evaluating the intended learning outcomes of program and courses, from 13 Oct to 14 Oct 2021.
- 5- Workshop (Quality Practitioner and Academic Accreditation Preparation Program): Academic program and course reports, from 20 Oct to 21 Oct 2021.
- 6- Workshop (Quality Practitioner and Academic Accreditation Preparation Program): Quality surveys, KPIs and benchmarks, from 28 Oct to 29 Oct 2021.
- 7- Workshop (Quality Practitioner and Academic Accreditation Preparation Program): Self-study preparation, from 3 Nov to 4 Nov 2021.

- 8- Workshop (Quality Practitioner and Academic Accreditation Preparation Program): Self-assessment and independent review, from 9 Nov to 10 Nov 2021.
 - 9- Workshop (Quality Practitioner and Academic Accreditation Preparation Program): Preparing for the visit and academic accreditation, from 17 Nov to 18 Nov 2021.
 - 10- Assessment skills using rubric, 1 Sep 2021.
 - 11- Professional Mathematics Teaching using Zoom, 29 Aug 2021.
 - 12- Attended the workshop about Literature reviews and Systematic reviews by zoom.
 - 13- Give a workshop for Mathematics department faculties about how to write the Learning outcomes for courses.
 - 14- Attended the workshop about principle of Actuarial Corporate, from 11 to 13/9/2022, for 6 hours.
 - 15- Attended the first workshop about the use of GenAI in Scientific Research: Modern Publishing Policies in Global Publishing Houses; 7/5/2025.
 - 16- Attended the first workshop about the use of GenAI in Scientific Research: The pre-writing stage; 17/9/2025.
 - 17- Attended the first workshop about AI Competencies for Learners: From Understanding to Empowerment; 1/9/2025
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Miscellaneous Professional Activities:

- Member of Saudi Association of Mathematical Sciences (SAMS).
- Member of the Committee of Discrete Mathematics.
- Member of the Evaluation and accreditation Committee (coordinate of Female section).

Courses Taught at B.Sc. level:

- 1- Math 106, Integral Calculus.
- 2- Math 111, Integral Calculus.
- 3- Math 151, Discrete Mathematics
- 4- Math 206, Multivariable Differential and Integral Calculus.
- 5- Math 211, Mathematics for chemists.
- 6- Math 225, Introduction to Differential Equations
- 7- Math 244, Linear Algebra.
- 8- Math 425, Partial Differential equations.
- 9- Math 499, Research Project.
- 10- Acute 498, Practical Training.