



FACULTY FULL NAME

Haya Rashed Saleh Altamimi

POSITION: Assistant Professor

Personal Data

Nationality | Saudi

Date of Birth | 03/11/1394

Department | Mathematics

Official UoD Email | haltamimi@iau.edu.sa

Office Phone No. | 37473

Language Proficiency

Language	Read	Write	Speak
Arabic	✓	✓	✓
English	✓	✓	✓
Others	—	—	—

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
1430	Ph.D. Degree	Imam Abdulrahman Bin Faisal University (Dammam formerly)	Saudi Arabia - Dammam
1422	Master's Degree	Imam Abdulrahman Bin Faisal University (Dammam formerly)	Saudi Arabia - Dammam
1416	Bachelor's Degree	Imam Abdulrahman Bin Faisal University (Dammam formerly)	Saudi Arabia - Dammam

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Line Geometry and its Applications in Correction of Irregularity Regions
Master	A Study of Stability of Deformed Submanifolds and its Geometric Properties
Fellowship	

Professional Record: (Beginning with the most recent)



Job Rank	Place and Address of Work	Date
Assistant Professor	Imam Abdulrahman Bin Faisal University (Dammam formerly)	5/1431
Lecturer	Imam Abdulrahman Bin Faisal University (Dammam formerly)	2/1423
Demonstrate	Imam Abdulrahman Bin Faisal University (Dammam formerly)	12/1416

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Chairman of Mathematics Department	College of Science – Building A 80 (4) - B1	16/2/1438 - 15/2/1440

Scientific Achievements

Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	A. Alshehri, N. Aljaber, H. Altamimi, R. Alessa, and M. Majdoub	NONEXISTENCE OF GLOBAL SOLUTIONS FOR A NONLINEAR PARABOLIC EQUATION WITH A FORCING TERM	2023 - <i>Opuscula Mathematica</i>
2	R. Alessa, A. Alshehri, H. Altamimi & Mohamed Majdoub	Local well-posedness and blow-up for an inhomogeneous nonlinear heat equation.	2020 -Wiley
3	N.H.AbdeAll & H.R.Altamimi	" Intrinsic geometry of neighboring surfaces "	2009 - FJMS
4	N.H.AbdeAll & H.R.Altamimi	" Geometry of incident line congruence "	2008 – FJMS

Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date

Current Researches

#	Research Title	Name of Investigator(s)



Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1-	3 ^{ed} workshop on Partial Differential equations & Applications	King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, 24 Dec 2018	Attendance
2-	Workshop on Fractional Models in Science & Engineering (FMSE18) Theory and Computation	King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, 10 Dec 2018	Attendance
3-	Mathematics Day	King Abdul-Aziz University, Jeddah, Saudi Arabia, 4 Oct 2018	Attendance
4-	The first international conference of Mathematics and its applications	King Khalid University, Abha, Saudi Arabia 26-27 Mar 2018	Attendance
5-	Novel Developments in Evolutionary Partial Differential Equations	King Abdullah University of Science & Technology, Thuwal, Saudi Arabia, 1st- 3ed Nov 2016	Attendance

Membership of Scientific and Professional Societies and Organizations

- member of Saudi Mathematical Science Society (SMSS), King Saud University, Riyadh.

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	General Mathematics	MATH 101N	Preparation of lectures and teaching
2	Calculus III	MATH 212N MATH 301	Preparation of lectures and teaching
3	Transformations Geometry	MATH 373N	Preparation of lectures and teaching
4	Basics of Geometry	MATH 471N	Teaching
5	Analytic Geometry (Plane & Space)	MATH 105O	Teaching
6	Analytic Geometry and Vector Calculus	MATH 109O	Teaching
7	Calculus of Variation	MATH 305O	Preparation of lectures and teaching
8	Differential Geometry	MATH 424O MATH 508	Preparation of lectures and teaching
9	Foundation of Mathematics	MATH 206	Preparation E- course and teaching
10	Number Theory	MATH 434N MATH 406	Preparation E- course and teaching
11	Mathematical methods	MATH 402	Preparation E- course and teaching
12	Differential forms & vector analysis	MATH 443N MATH 405	Preparation E- course and teaching
13	Calculus II	MATH 205	Teaching
14	Seminar of research	MATH 506	Supervising
15	Summer training	MATH 408	Supervising
16	Euclidean & non-Euclidean geometry	MATH 451	Teaching



Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

1	General Mathematics (MATH 101N) Algebraic operations on numbers, factoring methods, solutions of all kinds of equations and inequalities, Cartesian coordinates and equations of the straight line and the circle, Graphing equations, Functions, Exponential and logarithmic functions, Trigonometric functions and trigonometric identities, cone sections equations.
2	Calculus (3) (MATH 212N) Calculus III (MATH 301) Vectors, vector functions and its geometric and natural applications, functions in Multi variables and the study of its limits and continuity, partial derivatives and rule of the chain, maximum and minimum values and Lagrange multipliers, multiple integrals, linear and surface integrals, integrals in Cylindrical and Spherical Coordinates, Differential operators, Basic theories of vectors analysis (Gradient, Divergence & Stokes) .
3	Transformation Geometry (MATH 373N) Euclidean Isometries (translation, rotation, half-turn, reflection, and glide reflection), representation of isometries as compositions of reflections, Groups of finite and infinite Euclidean isometries, Euclidean symmetry and its properties, Affine transformations and their properties and representations, Geometric concepts and transformations groups.
4	Basics of Geometry (MATH 471N) Euclidean geometry, Undefined terms & Euclid's Postulates, logic and axiomatic systems, Incidence axioms, betweenness axioms and theories, Congruence axioms and theories, Dedekind and Archimedes axioms, theories of neutral geometry.
5	Analytic Geometry (plane & 3D-Space) (MATH 105O) General equation of quadratic curves in the plane, coordinates systems in three-dimensional space, plane equation in space, straight line equation, the sphere equation in the space, quadratic surfaces and its canonical equations.
6	Analytic Geometry and Vector Calculus (MATH 109O) Straight line equation in the plane, equations of conic, vectors and its operations, straight line and sphere equation in three-dimensional space, differential operators (Gradient, Divergence, Curl & Laplace operator)
7	Calculus of Variations (MATH 305O) Functionals Concept on class of continues functions and class of piece-wise continues functions, formulation of problems and the necessary conditions of maximum values of one-variable, two-variable and multiple variables functions, Euler necessary condition, Euler–Lagrange equation in different cases, Weierstrass necessary condition, Jacob necessary condition, corner conditions, formulation of optimization problems.
8	Differential Geometry (Math 424O & MATH 506) Theory of curves in space \mathbb{R}^3 , regular curves and change of parameter, arc length, Serret-Frenet moving frame , Serret-Frenet theorem, natural Equations, fundamental theorem of curves in space, local theory of surfaces, definition of surface, simple surfaces, coordinates transformation, tangent vector& normal vector and tangent plane, first, second and third fundamental forms; (Weingarten mapping) and there geometric means, normal curvature and basic curvatures and Gauss curvature and mean curvature and Geodesics curvature, Geodesics curves, movement equations on surface, fundamental theory of surfaces in three-dimensional space.
9	Foundation of Mathematics (Math 206) Simple and complex statements and conjunction tools, values of truth of statements, equivalent statements, methods of direct and indirect proof and proof by cases, sets and its identified operations, indexed sets, concept of functions, injective, surjective and bijective functions, relations and order and equivalence relations, finite and infinite sets and concept of countable and cardinal numbers of sets.
10	Number Theory (Math406) Mathematical induction, the binomial theorem, division algorithm, greatest common divisor, Euclidean algorithm, Diophantine equation, the fundamental theorem of arithmetic, the sieve of Eratosthenes, basic properties of congruences, special divisibility tests, linear congruences, Fermat's factorization method, the little theorem, Wilson's theorem, the functions τ and σ , Euler's function ϕ , Euler's theorem.



11	Mathematical methods (MATH 402) Gamma function, Beta function, Series solutions of linear differential equations near singular points, Legendre polynomials, Hermit polynomials, Laguerre polynomials, Bessel Functions, Hypergeometric functions.
12	Differential forms & vector analysis (MATH 443N & MATH 405) Functions of Several Variables; Graphing Surface, Limits, The Derivative Properties; Higher-order Partial Derivatives, The Chain Rule, Implicit Function Theorem, Differential Operator: Gradient, Divergence, Curl, and the Del Operator, Orthogonal Curvilinear Coordinates, Green's Theorem, Parametrized Surfaces, 2 Surface Integrals, Stokes's and Gauss's Theorems, An Introduction to Differential Forms, Manifolds and Integrals of k-form, General Stokes.
13	Calculus II (MATH 205) Antiderivatives , The Definite Integrals, The Indefinite Integrals, Applications of the definite integrals, Techniques of integration, Integration by parts, Integration by substitution, Trigonometric integration, Trigonometric substitution, Integration of Rational Functions by Partial Fractions, Improper integrals, Infinite Sequence and Series, Tests of Converges, Alternating Series, Absolute and conditional convergence, Power series, Taylor and Maclaurin series and its convergence, The Binomial Series and applications of Taylor series.
14	Seminar of research (MATH 506) Give students subject in mathematics, then apply research skills in reading, understanding, summarizing, paraphrasing, writing, study application and represent using software.
15	Summer training (MATH 408) Contact with students, and solve their problems with training institutions. Then give students rules to writing report then evaluate their reports.
16	Euclidean & non-Euclidean geometry (MATH 451) Euclidean geometry, Undefined terms & Euclid's Postulates, logic and axiomatic systems, Incidence axioms, betweenness axioms and theories, Congruence axioms and theories, Dedekind and Archimedes axioms, theories of neutral geometry, Hyperbolic geometry.

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)

Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

1	
2	

Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	to
	Calculus (3) (MATH 212N)		✓	✓		2010-2011	2018 - 2019
	Transformation Geometry (MATH 373N)	✓		✓		2012 - 2013	2018 - 2019



Basics of Geometry (MATH 471N)	✓		✓		2017 - 2018	2019 - 2020
Differential Geometry (Math 424O & MATH 506)	✓		✓		2010- 2011	2022- 2023
Number Theory (Math406)	✓		✓		2018 - 2019	2019 - 2020
Mathematical methods (MATH 402)	✓		✓		2021 - 2022	2023 - 2024
Euclidean & non-Euclidean geometry (MATH 451)	✓		✓		2019 - 2020	2019 - 2020

Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	to
1	Bachelor's Degree	20	Each year	

Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date

Ongoing Research Supervision

#	Degree Type	Title	Institution	Date

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
1	16/2/1438	15/2/1440	Chairman of Mathematics department	College of Science – Imam Abdulrahman Bin Faisal University



Committee Membership

#	From	To	Position	Organization
1	1439	15/2/1440	Member of Faculty members and teaching staff committee.	College of Science
2	1438	15/2/1440	Member of strategic planning committee.	College of Science
3	1436	To date	Member of developing the bachelor's programs committee.	Mathematics department – College of Science
4	1435	To date	Member of developing the graduate studies programs committee.	Mathematics department – College of Science
5	1434	To date	Member of academic guidance committee.	Mathematics department – College of Science
6	1431	To date	Member of Equalization of curriculums committee in Mathematics department	Mathematics department – College of Science
7	1431	11/1436	Head of quality committee in the department	Mathematics department – College of Science

Scientific Consultations

#	From	To	Institute	Full-time or Part-time

Volunteer Work

#	From	To	Type of Volunteer	Organization
1	6/5/1439	8/5/1439	Giftedness enrichment 1	College of Science

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Use of basic computer programs.
2	Use math programs packages like Mathematica.

Career Development activities

#	workshops
1	Strategies of development of teaching staff members skills which are related to teaching effectiveness and Learning outcomes
2	Search mechanism in scientific researcher website
3	Programs and curriculum description
4	Panel discussion about the future vision of the public education in Saudi Arabia (King Abdullah project for the development of public education and king Abdul-Aziz center of national speech)
5	Scientific work place (SWP)
6	Pearson workshop for my Math Lap
7	Design of curriculum according to learning outcomes
8	Using Technology to Enhance student-centered Learning
9	Evaluation of academic achievement



10	Description of programs and curriculums and field experience and annual reports writing
11	Training of Mathematics Olympics
12	Use of electronic index of Dammam university libraries and the unified search tool
13	Description and Specification of academic syllabus
14	Making of annual report of the program
15	Gifted students and ways to deal with them
16	Higher thinking skills
17	Leadership diplomacy
#	Short courses
1	Student guidance and orientation
2	Educational course for college instructor preparation
3	Declamation skills
4	Fourth training course in student guidance and orientation
5	Fifth training course in psychological guidance
6	Hermann instrument
7	Google productivity
8	Use of Mat Lap
9	Advancing Science and Mathematics Education Leadership and Professional Skills Institute
10	Microsoft Office Productivity
11	Course Portefolpi2
12	The art of presentation and Dictions
13	Strategic planning
14	Skills in programs and courses description

Work with other Institute to provide Community Service

#	Activity	Institute	Date
1	Training in Aramco enrichment program for science and mathematics teachers of high school.	Saudi Aramco	18-29/7/1430
2	Preparatory training for students of the third stage of the international mathematical Olympiad.	King Abdul-Aziz & his Companions Foundation for Giftedness & Creativity (Mawhiba)	Weekly meetings from 11/1431 to 6/1432
3	Preparatory training for students of the second stage of the international mathematical Olympiad.	King Abdul-Aziz & his Companions Foundation for Giftedness & Creativity (Mawhiba)	Weekly meetings from 2/1433 to 6/1433
4	Training the Saudi team for mathematical Olympiad.	King Abdul-Aziz & his Companions Foundation for Giftedness & Creativity (Mawhiba)	Five meetings two weeks for everyone from 1431 to 1433
5	Participation in the jury of the national Olympiad for scientific Creativity "creating 2012" (innovation path)	King Abdul-Aziz & his Companions Foundation for Giftedness & Creativity (Mawhiba)	24/1/1433
6	Participate as a trainer in the summer enrichment program 2012 in Dammam university.	King Abdul-Aziz & his Companions Foundation for Giftedness & Creativity (Mawhiba)	From 25/7/1433 to 15/8/1433
7	Participate as a scientific deputy in the summer enrichment program 2013 in Dammam university.	King Abdul-Aziz & his Companions Foundation for Giftedness & Creativity (Mawhiba)	From 27/7/1434 to 17/8/1434
8	Participation in a discussion group for the	Weaam Association -	27/8/1435



	topic “activating the process of reconciliation between those who wish to marry in Saudi society “with Weaam association of the ministry of social affairs.	ministry of social affairs.	
9	Participation in the writing of questions for Qiyas in the project measuring learning outcomes in higher education, after attending a training program in Qiyas.	National center for assessment	1436-1437
10	Arbitration questions for teacher competencies for elementary and middle Schools	National center for assessment	1438

Last Update

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