

## CURRICULUM VITAE

### PERSONAL DATA

<b>Name</b>	Ibrahim Abdulaziz Ibrahim Aldayel
<b>Nationality</b>	Saudi
<b>Position</b>	Associate Professor
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### EDUCATION

Year	Academic Degree	Institution
2010	B.Sc. Degree, in Mathematics	King Saud University
2013	M.Sc. Degree in Mathematics	King Saud University
2018	Ph.D. Degree in Mathematics (Geometry and Topology)	King Saud University

### WORK EXPERIENCE

Period	Position	Address
2019 – now	Head of the Mathematics and Statistics Department	Imam Mohammad Ibn Saud Islamic University
2018-1019	Vice Dean of the Mathematics and Statistics Department	Imam Mohammad Ibn Saud Islamic University
2019 – now	Member of the Science College Council	Imam Mohammad Ibn Saud Islamic University
2019 – now	Member of the Mathematics and Statistics Department Council	Imam Mohammad Ibn Saud Islamic University
2023	Member and Secretary of the Standing Committee for International Publication Programs for the fiscal year 2023	Imam Mohammad Ibn Saud Islamic University

2022 – now	Member of the Standing Committee for Recruitment and External Cooperation	Imam Mohammad Ibn Saud Islamic University
2018 - 2019	Head of the Excuses Committee at the College of Science	Imam Mohammad Ibn Saud Islamic University
2019 - 2023	Member of the Board of Directors	Saudi Society for Mathematical Sciences (SAMS)
2023 – 2026	Member and Secretary of the Saudi Society for Mathematical Sciences	Saudi Society for Mathematical Sciences (SAMS)
2018-2019	Member of the Postgraduate Studies Committee at the the Mathematics and Statistics Department	Imam Mohammad Ibn Saud Islamic University
2018-2019	Member of the Scientific Committee at the Mathematics and Statistics Department	Imam Mohammad Ibn Saud Islamic University
2018-2019	Member of the Teaching Assistants and Lecturers Committee at the Mathematics and Statistics Department	Imam Mohammad Ibn Saud Islamic University
2019-2020	Head of the Contracting and Attracting Committee at the Mathematics and Statistics Department	Imam Mohammad Ibn Saud Islamic University

## RESEARCH INTERESTS

Differential Geometry: [1] Riemannian manifolds. [2] Riemannian submersions. [3] Minimal submanifolds. [4] Geometry of hypersurfaces of a spheres. [5] CR- submanifolds. [6] Submanifolds with parallel mean curvature vector. [7] Conformal Transformations and conformal vector fields on a Riemannian manifold. [8] Killing vector fields and Jacobi-type vector fields on a Riemannian manifold. [9] Geodesic vector fields on a Riemannian manifold. [10] Spectrum of a Riemannian manifolds. [11] Representation theory of Lie groups and applications to differential equations. [12] Geometry of Ricci solitons. [13] Geometry of Tangent bundle. [14] Einsteins field equation. [15] Differential equations on a Riemannian manifold. [16] Geometry of Rectifying curves. [17]Trans-Sasakian manifolds. [18] Geometry of almost Ricci solitons. [19] Yamabe solitons. [20] Static spaces.

## PUBLICATIONS

- 1) Sharief Deshmukh and **Ibrahim Al-Dayel**, Characterizing Spheres by an Immersion in Euclidean Spaces, Arab journal of of mathematical sciences, 2017.
- 2) Sharief Deshmukh and **Ibrahim Al-Dayel**, Frenet Curves in Euclidean 4-Space, International electronic journal of geometry, Vol 11, 2018 .

- 3) Sharief Deshmukh and **Ibrahim Al-Dayel**, A Note on Nearly Sasakian and Nearly Cosymplectic Structures of 5-Dimensional Spheres, International electronic journal of geometry, Vol 11, 2018.
- 4) Sharief Deshmukh and **Ibrahim Al-Dayel**, A Note on Minimal Hypersurfaces of an Odd Dimensional Sphere, Multidisciplinary Digital Publishing Institute - Mathematics, Vol.8, Issue 2, 2020.
- 5) **Ibrahim Al-Dayel**, Sharief Deshmukh and Olga Belova, A Remarkable Property of Conircular Vector Fields on a Riemannian Manifolds, Multidisciplinary Digital Publishing Institute - Mathematics, Vol.8, Issue 4, 2020.
- 6) Meraj Ali Khan and **Ibrahim Aldayel**, Ricci Curvature Inequalities for Skew CR-Warped Product Submanifolds in Complex Space Forms, Multidisciplinary Digital Publishing Institute - Mathematics, Vol.8, Issue 8, 2020.
- 7) **Ibrahim Al-Dayel**, On geometry of similarity kinematic motion of pear-shaped quartic, JP Journal of Algebra, Number Theory and Applications, Vol.46, Issue 2, 2020.
- 8) **Ibrahim Al-Dayel** and Meraj Ali Khan, Ricci curvature of contact CR-warped product submanifolds in generalized Sasakian space forms admitting nearly Sasakian structure, American Institute of Mathematical Siences : AIMS Mathematics, Vol 6, Issue3 , 2132-2151, 2020.
- 9) Sharief Deshmukh and **Ibrahim Al-Dayel**, Concircularity on GRW-space-times and conformally flat spaces, International Journal of Geometric Methods in Modern Physics, Vol. 18, No. 8, 2021.
- 10) **Ibrahim Al-Dayel** and Meraj Ali Khan, Characterization of Skew CR-Warped Product Submanifolds in Complex Space Forms via Differential Equations, Mathematical Problems in Engineering, Hindawi , Vol. 2021.
- 11) **Ibrahim Al-Dayel**, Study of Differential Equations on Warped Product Semi- Invariant Submanifolds of the Generalized Sasakian Space Forms, Advances in Mathematical Physics, Hindawi, Vol. 2021 .
- 12) Meraj Ali Khan and **Ibrahim Al-dayel**, Characterizing Inequalities for Biwarped Product Submanifolds of Sasakian Space Forms, Mathematical Problems in Engineering, Hindawi Vol. 2021.
- 13) Sharief Deshmukh, **Ibrahim Al-Dayel** and Devaraja Mallesha Naik, On an Anti-Torqued Vector Field on Riemannian Manifolds, Multidisciplinary Digital Publishing Institute - Mathematics, Vol. 9, Issue 18, 2021.
- 14) **Ibrahim Al-Dayel**, Sharief Deshmukh and Mohd. Danish Siddiqi, A Characterization of GRW Spacetime, Multidisciplinary Digital Publishing Institute - Mathematics, Vol. 9, Issue 18, 2021.
- 15) **Ibrahim Al-Dayel**, Sharief Deshmukh and Gabriel-Eduard Vîlcu, Trans-Sasakian static spaces, Results in Physics, Vol.31, 2021.
- 16) Amira Ishan, Sharief Deshmukh, **Ibrahim Al-Dayel** and Cihan Özgür, On Minimal Hypersurfaces of a Unit Sphere, Multidisciplinary Digital Publishing Institute - Mathematics, Vol. 9, Issue 24, 2021.
- 17) **Ibrahim Al-Dayel** and Sharief Deshmukh, On Compact Trans-Sasakian Manifolds, Hindawi - Advances in Mathematical Physics, Vol. 2022.
- 18) **Ibrahim Al-Dayel**, Foued Aloui and Sharief Deshmukh, Poisson Doubly Warped Product Manifolds, MPDI - Multidisciplinary Digital Publishing Institute: Mathematics, Vol. 11, 519, 2023.
- 19) **Ibrahim Al-Dayel**, Foued Aloui and Sharief Deshmukh, Geometry of Tangent Poisson–Lie Groups, MPDI - Multidisciplinary Digital Publishing Institute: Mathematics, Vol. 11, 240, 2023.

- 20) **Ibrahim Al-Dayel** and Sharief Deshmukh, The Heat Equation on Submanifolds in Lie Groups and Random Motions on Spheres, MPDI - Multidisciplinary Digital Publishing Institute: Mathematics, Vol. 11, 2023.
- 21) **Ibrahim Al-Dayel**, Estimation of Ricci Curvature for Hemi-Slant Warped Product Submanifolds of Generalized Complex Space Forms and Their Applications, MPDI - Multidisciplinary Digital Publishing Institute: Symmetry, Vol. 15, 2023.