CURRICULUM VITAE

PERSONAL DATA

Name	Md Aquib Mohd Abutalib
Nationality	Indian
Position	Assistant Professor
E-Mail	maquib@imamu.edu.sa, aquib80@gmail.com
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EDUCATION

Year	Academic Degree	Institution
2018	Ph. D. (Mathematics)	Jamia Millia Islamia (a central university)
2014	M.Sc. (Mathematics with CS)	Jamia Millia Islamia (a central university)
2012	B.Sc. (Mathematics)	Jamia Millia Islamia (a central university)

WORK EXPERIENCE

Period	Position	Address
12.11.2023 up to now	Assistant Professor	Department of Mathematics and Statistics, College of Sciences, Imam Mohammad Ibn Saud Islamic University Riyadh, Saudi Arabia
01. 01. 2023 to 31.10.2023	Post Doctorate	School of Mathematics, Hangzhou Normal University, China
01. 01. 2021 to 30. 12. 2022	Assistant Professor	Department of Mathematics, Sri Venkateswara College, University of Delhi, New Delhi
17. 08. 2020 to 28. 11. 2020	Assistant Professor	Department of Mathematics, University of Delhi, Delhi, India
17.07.2019 to 31.05.2021	Assistant Professor	Department of Mathematics (self financed), Jamia Millia Islamia, New Delhi, India
07. 08. 2018 to 31. 05. 2020	Assistant Professor	Department of Mathematics, Jamia Millia Islamia, New Delhi, India

RESEARCH INTERESTS

- Differential Geometry
- Differentiable manifolds
- Geometry of Submanifolds
- Spaces of constant curvature
- Optimization on submanifolds
- Methods of Riemannian Geometry
- Structures on Riemannian Manifolds
- Statistical manifolds and submanifolds, **etc.**

PUBLICATIONS

PUBLISHED RESEARCH ARTICLES:

1. **Mohd. Aquib**, Mohamd Saleem Lone, Crina Neacsu and Gabriel-Eduard Vilcu, On δ-Casorati curvature invariants of Lagrangian submanifolds in quaternionic Kaehler manifolds of constant q-sectional curvature, **Rev. Real Acad. Cienc. Exactas Fis. Nat. Ser. A-Mat,** (2023) 117:107.

2. **Mohd. Aquib**, M. Aslam, *M. H. Shahid,* Bounds on Ricci curvature for doubly warped products pointwise bi-slant submanifolds and applications to Physics, **Filomat, 37** (2) (2023).

3. **Mohd. Aquib,** S. Uddin, M. H. Shahid , Ricci curvature for pointwise semi-slant warped products in non-Sasakian generalized Sasakian space forms and its applications, **Hacettepe Journal of Mathematics and Statistics**, **51** (6) (2022), 1535 – 1549. DOI : 10.15672/hujms.1034883.

4. **Mohd. Aquib**, A. Mihai, I. Mihai, S. Uddin, Some obstructions to doubly warped product immersions in generalized complex space forms, **Symmetry**, **14** (2022), 1747. https://doi.org/ 10.3390/sym14081747.

5. *Meraj Ali Khan*, *Ali H. Al-Khaldi***,** and **Mohd. Aquib**, Estimation of eigenvalues for the α-Laplace operator on pseudo-slant submanifolds of generalized Sasakian space forms, **AIMS Mathematics, 7**(9) (2022), 16054–16066.

6. **Mohd Aquib***, Meraj Ali Khan, Adela Mihai and Ion Mihai*, Some pinching results for Bi-slant submanifolds in S-space forms, **Mathematics, 10** (9) (2022), 1538.

7. *Ali H. Al-Khaldi***,** *Meraj Ali Khan*, **Mohd. Aquib,** and *Lamia Saeed Alqahtani*, Estimation of eigenvalues for the ψ-Laplace operator on Bi-slant submanifolds of Sasakian space forms, **Frontier in Physics**, 10:870119 (2022).

8. **Mohd. Aquib,** *Amira A. Ishan, Meraj Ali Khan, and Mohammad Hasan Shahid,* A characterization for totally real submanifolds using self-adjoint differential operator, **AIMS Mathematics, 7**(1) (2021), 104-120.

9. *Ali H. Al-Khaldi,* **Mohd. Aquib***, *Mohd Aslam, and Meraj Ali Khan,* Chen-Ricci Inequalities with a Quarter-symmetric connection in generalized space forms, **Advances in Mathematical Physics, 2021**, Article ID 3221643, 10 pages, 2021.

10. **Mohd. Aquib**, *Jae Won Lee, Gabriel Eduard, and Dae Won Yoon*, Classification of Casorati ideal Lagrangian submanifolds in complex space forms, **Differential Geometry and its Applications**, **63** (2019), 30-49.

11. **Mohd. Aquib***, Some inequalities for Statistical submanifolds of Quaternion Kaehler-like Statistical space form, **Int. J. of Geometric Method and Modern Physics, 16** (8) (2019), 17pp.

12. **Mohd. Aquib**, *Michel Nguiffo Boyom, Mohammad Hasan Shahid and Gabriel-Eduard Vîlcu,* The first fundamental equation and generalized Wintgen-type inequalities for submanifolds in generalized space forms, **Mathematics,**
7 (2019), 1151-1170.

13. **Mohd. Aquib***, Bounds for generalized normalized δ-Casorati curvatures for bi-slant submanifolds in T-space forms, **Filomat**, **32**(1) (2018), 329-340.

14. *Ali H. Khaldi*, **Mohd. Aquib***, *Aliya Naaz Siddiqui, and M. H. Shahid*, Pinching theorems for statistical submanifolds in Sasaki-like statistical space forms, **Entropy**, **20**, 690, (2018).

15. **Mohd. Aquib***, *M. H. Shahid*, Bounds for generalized normalized δ-Casorati curvatures for submanifolds in Bochner Kaehler manifold, **Filomat**, **32**(2) (2018), 693–704.

16. **Mohd. Aquib***, *M. H. Shahid*, Generalized Normalized δ-Casorati curvature for Statistical submanifolds in Quaternion Kaehler-like Statistical space forms, **Journal of Geometry**, **109**(1):13 (2018).

17. **Mohd. Aquib**, M. A. Khan, I. Al-Dayel, K. Masood, Ricci tensor of slant submanifolds in locally metallic product space forms, **Filomat** (accepted), 2023.

18. **Mohd. Aquib***, *M. H. Shahid and M. Jamali*, Lower extremities for generalized normalized δ-Casorati curvatures of bi-slant submanifolds in generalized complex space forms, **Kragujevac Journal of Mathematics**, **42**(4) (2018), 591-605.

19. **Mohd. Aquib***, *M. H. Shahid*, Bounds for generalized normalized δ-Casorati curvatures for submanifolds in generalized (κ, μ)-space forms, **Kyungpook Mathematical Journal**, **58** (2018), 167-182.

20. **Mohd. Aquib***, *M. H. Shahid*, Generalized Wintgen inequality for submanifolds in Kenmotsu space forms, **Tamkang Journal of Mathematics,** 50 (2), 155-164, (2019)**.**

21. **Mohd. Aquib***, Some inequalities for submanifolds in Bochner-Kaehler manifold, **Balkan Journal of Geometry and Its Applications, 23**(1) (2018), 1-13.

22. **Mohd. Aquib***, *S. M. Lone, and M. A. Lone*, Generalized Wintgen inequality for bi-slant submanifolds in locally conformal Kaehler space forms, **Matematicki Vasnik,** 70(3) (2018), 243-249.

23. Mustafa Kazaz, Mohd. Aslam, **Mohd. Aquib*****,** Geometric inequalities for statistical submanifolds in Cosymplectic statistical manifolds, **Kragujevac Journal of Mathematics**, 48(3) (2024), 393–405.

24. **Mohd. Aquib**, M. Aslam, *M. N. Boyom, M. H. Shahid,* Geometric inequalities for warped products submanifolds in generalized complex space forms, Commun. Korean Math. Soc. 38 (1) (2023), 179–193.

25. **Mohd. Aquib**, M. Aslam, M. N. Boyom, Some pinching results for statistical submanifolds in cosymplectic statistical manifolds, **Matematicki Vasnik,** 75, 2 (2023), 106–117.

BOOK CHAPTERS PUBLISHED IN PROCEEDINGS:

1. *M. N. Boyom*, **Mohd. Aquib***, *M. H. Shahid and M. Jamali*, Generalized Wintegen type inequality for Lagrangian submanifolds in holomorphic Statistical space forms, GSI, **In: Nielsen F., Barbaresco F. (eds)**, **Springer,** 2017.

2. **Mohd. Aquib***, Michel Nguiffo Boyom , Ali H. Alkhaldi**,** *M. H. Shahid*, B. Y. Chen inequalities for statistical submanifolds in Sasakian statistical manifolds, **Springer** LNCS proceedings 2019.

3. **Mohd. Aquib***, F. R. Al-Solamy, M. Jamali, M. T. Aldossary, Michel Nguiffo Boyom, Inequalities for statistical submanifolds in Sasakian statistical manifolds, **Springer, Singapore,** 2020.

REVIEW BOOK CHAPTERS PUBLISHED:

1. Luis M. Fernández, **Mohd. Aquib**, P. Bansal, The slant submanifolds in the setting of metric f -manifolds, In: Chen, BY., Shahid, M.H., Al-Solamy, F. (eds) Contact Geometry of Slant Submanifolds. **Springer, Singapore**, 2022.