

Curriculum Vitae

Dr. Mehraj Ahmad Lone

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DESIGNATION

- Assistant Professor, NIT Srinagar, J&k, India.

ACADEMIC DETAILS

| Degree | University | Specialization | Year | Division |
|---------|-----------------------------|-----------------------|------|----------|
| Ph.D. | Central University of Jammu | Differential Geometry | 2017 | Awraded |
| M.Phil. | Central University of Jammu | Differential Geometry | 2015 | First |
| M. Sc. | Jamia Millia Islamia | Differential Geometry | 2012 | First |
| B. Sc. | University of Kashmir | - | 2010 | First |

TEACHING EXPERIENCE AND RESEARCH EXPERIENCE

- 22-03-2018 - 30-12-2018, Lecturer Mathematics, NIT Srinagar, J&K, India.
- 31-12-2018- Till Date, Assistant Professor, NIT Srinagar, J&K, India.

ADMINISTRATIVE EXPERIENCE

- 28-01-2019 - 17-12-2020, Warden(Indus Hostel), NIT Srinagar, J&K, India.
- 28-02-2019 - 22-11-2020 , Examination Incharge(Department of Mathematics), NIT Srinagar, J&K, India.
- 10-08-2021 - 15-03-2023 , Website Coordinator(Department of Mathematics), NIT Srinagar, J&K, India.

COURSES THAUGHT AT UG AND PG LEVEL

- Operations Research, Matrix Theory, Differential Equations and Complex Analysis.

TITLE OF PHD THESIS

- Geometry of Some Submanifolds and Their Applications

FIELDS OF INTEREST

- Submanifold theory and Optimization

FOREIGN COLLABORATORS

| Name | University | Country |
|---------------------------|---|--------------|
| Prof. Y. Matsuyama | Chuo University, Tokyo | Japan |
| Prof. G. E. Vilcu | Petroleum-Gas University of Ploiești, Ploiești | Romania |
| Prof. Falleh R. Al-Solamy | King Abdulaziz University, Jeddah | Saudi Arabia |
| Prof. M. N. Boyom | University of Montpellier , Montpellier | France |
| Prof. Siraj Uddin | King Abdulaziz University, Jeddah | Saudi Arabia |
| Prof. Bang-Yen Chen | Michigan State University, East Lansing, Michigan | USA |

TECHNICAL SKILLS

- LaTeX, Mathematica and Matlab.

RESEARCH PROJECTS

1. Towards Prevention of Counterfeiting saffron quality by smart contract: A way forward through Block Chain

RESEARCH PUBLICATIONS

1. On some inequalities for submanifolds of Bochner-Kaehler manifolds, **Filomat** 31(18), (2016), 5511–5523.(with M. Jamali and M. H. Shahid).(SCI).
2. A new approach towards geodesic curvature and geodesic torsion of transversal intersection in R^3 , **Facta Universitatis, Series: Mathematics and Informatics**, 31 (3),(2016), 741-749. (with M. S. Lone and M. H. Shahid)
3. Hemi-slant submanifolds of nearly Kaehler manifolds, **Gulf Journal of Mathematics**, 4 (3),(2016), 55-64. (with M. H. Shahid and S. D. Sharma)
4. Hemi-slant submanifolds of cosymplectic manifolds, **Cogent Mathematics** , 3 (1), (2016), 1204143. (with M. S. Lone and M. H. Shahid)
5. An inequality for generalized normalized δ -Casoraticurvatures of slant submanifolds in-generalized complex space form, **Balkan Journal of Geometry and Its Applications**, 22(1), 2017, 41-50.(SCOPUS).
6. Some inequalities for generalized normalized δ -Casorati curvatures of slant submanifolds in generalized Sasakian space form, **Novi Sad J. Math**, 47(1), 2017, 129-141.(SCOPUS).
7. A lower bound of normalized scalar curvature for the submanifolds of locally conformal Kaehler space form using Casorati curvatures, **Filomat** 31(15), (2017), 4925–4932.(SCI).
8. On Ricci semi-symmetric mixed super quasi-Einstein Hermitian manifold, **Differential Geometry-Dynamical Systems** 20, (2018), 72–82.(SCI).
9. Generalized Wintgen inequality for bi-slant submanifolds in locally conformal Kaehler space forms, **Matematički Vesnik** 70(3), 2018, 243-249.(with M. Aquib, M. S. Lone)(SCOPUS).
10. On nonexistence of warped product submanifolds of locally conformal Kaehler manifolds, **Gulf Journal of Mathematics**, 6 (2),(2018), 55-64. (with M. H. Shahid and S. D. Sharma)

11. Geometric bounds for δ -Casorati curvature in statistical submanifolds of statistical space forms, **Balkan Journal of Geometry and Its Applications**, Vol.24, No.1, 2019, pp. 1-11 (with P. Bansal, M. H. Shahid) (SCOPUS).
12. Generalized Wintgen inequality for Legendrian Submanifolds in Sasakian statistical manifolds , GSI 2019: **Geometric Science of Information** pp 407-412. (M. N. Boyom, Z. Jabeen, M. S. Lone and M. H. Shahid)(SCOPUS).
13. Optimal Inequalities for Generalized Normalized δ -Casorati Curvatures for Hi-Slant Submanifolds of Kenmotsu Space Forms, **Journal of Dynamical Systems and Geometric Theories**, 17(1), (2019), 39-50.
14. On Casorati curvatures of submanifolds in pointwise Kenmotsu space forms, **Math Phys Anal Geom**(2019)22:2.<https://doi.org/10.1007/s11040-018-9297-x> (with M. H. Shahid and G. E. Vilcu).(SCI).
15. Upper bounds for Ricci curvatures for submanifolds of Bochner-Kaehler manifolds, **Tamkang Journal of Mathematics**, 51(1), 53-67(2019)(with Y. Matsuyama,Falleh R. Al-Solamy, M. Jamali and M. H. Shahid)(SCOPUS).
16. Basic inequalities for submanifolds of quaternionic space forms with quarter-symmetric connection, **Journal of Geometry and Physics**, 159(2021), 103927(SCI).
17. Biharmonic submanifolds of Kaehler product manifolds, **AIMS Mathematics** 6(9):9309-9321(2021) (with Yanlin Li and Umair Ali).(SCI).
18. Chen's δ -invariant type inequalities for bi-slant submanifolds of generalized Sasakian space form **Journal of Geometry and Physics**, 161(2021), 104040 (with Siraj ud din and M. S. Lone).(SCI).
19. Basic inequalities for real hypersurfaces in some Grassmannians, **Mediterranean Journal of Mathematics** 18 (5), 1-13 (with M. S. Lone).(SCI).
20. A characterization of totally real statistical submanifolds in quaternion Kaehler-like statistical manifolds, **RACSAM** 116, 55 (2022)., (with M. S. Lone and A. Mihai).(SCI).
21. Conformal Ricci solitons on generalized (κ, μ) -space forms, **International Journal of Geometric Methods in Modern Physics** 19(14), (2022), 2250226-183., (with T. A. Wani).(SCI).
22. Inequalities involving Casorati curvatures for submanifolds of real space forms with a quarter-symmetric connection.**Filomat** 36(13), (2022), 4483–4491.(SCI).
23. Geometric Classification of Warped Products Isometrically Immersed into Conformal Sasakian Space Froms, **Symmetry** 14 (3), 608, (with X Fan, Y Li, P Majeed, S Sharma).(SCI).
24. Horizontally Conformal Submersions from CR-Submanifolds of Locally Conformal Quaternionic Kaehler Manifolds, **Mediterranean Journal of Mathematics** 19 (3), 1-14 (with M. S. Lone).(SCI).
25. Doubly warped product submanifolds of a Riemannian manifold of nearly quasi-constant curvature, **Tamkang Journal of Mathematics**, 53, 2022 , (with M. S. Lone and M. H. Shahid).(SCOPUS).

26. Ricci solitons on Lorentz-Sasakian space forms, **Journal of Geometry and Physics** 178, 104547 (with Idrees Fayaz Harry).(SCI).
27. Chen and Casorati curvature inequalities for the submanifolds of quaternionic Kaehler manifolds endowed with Ricci quarter-symmetric metric connection, **Journal of Prime Research in Mathematics**, 18(2),(2022), 72-87 (with Umair Ali).(SCOPUS).
28. Optimal inequalities for submanifolds of Riemann manifolds of nearly quasi-constant curvature with quarter-symmetric connection, **Bulletin of the Transilvania University of Brasov. Series III: Mathematics and Computer Science**, 2(64), 109-124, (2022)(with Z. Jabeen and S. Sharma)(SCOPUS).

WORKSHOPS AND CONFERENCES ATTENDED

1. Attended ATM workshop on Geometry and Topology, **HRI Allahabad**, India, Nov 2015.
2. Attended workshop in Computational Mathematics on SageMath, Department of Mathematics, **Central University of Jammu**, India, March-2016.
3. Attended Science Academies' Lecture Workshop on "Algebra and Geometry", Department of Mathematics, **Central University of Jammu**, India, March-2017.
4. Attended workshop on "Geometry and Analysis on CR Manifolds" **HRI Allahabad**, India, Oct- 2016.
5. Attended International conference on Algebra, Analysis and Their Applications, Department of Mathematics **Jamia Millia Islamia**, Nov 2014.
6. Presented a paper entitled "Hemi-Slant Submanifolds of Nearly Kaehler Manifolds", National Scholars Conclave, **NIT Srinagar**, India, April-2016.
7. Presented a paper entitled "Ricci curvature for submanifolds of Bochner-Kaehler manifolds" in International Conference on Differential Geometry, Analysis and Algebra, **Jamia Millia Islamia**, New Delhi, Nov-2016.
8. Presented a paper entitled "Some inequalities for generalized normalized δ -Casorati curvatures of slant submanifolds in generalized Sasakian space form" National Conference on Differential Geometry and its Applications, **DDU Gorakhpur**, India, Jan-2017.
9. Presented a paper entitled "Some inequalities for Submanifolds of Bochner-Kaehler manifolds" National Conference on Recent Trends in Mathematical Sciences, **SMVDU Jammu**, India, Feb-2017.
10. Presented a paper entitled "Optimal inequalities for generalized normalized δ -Casorati curvatures of semi-slant submanifolds in generalized complex space form", International Symposium on Computational Mathematics, Optimization, and Computational Intelligence (CMOCI 2017), **IIT Indore**, India, July-2017.
11. Presented a paper entitled "Warped Product Semi-slant Submanifolds of Locally Conformal Kaehler Manifolds", 2nd National Conference on Emerging Trends in Applied Sciences organised by the School of Basic and Applied Sciences, **Galgotias University, Noida**, India, August-2017.

12. Presented a paper entitled "An inequality for generalized normalized δ -Casorati curvatures for slant submanifolds of generalized complex space form" in Role of Mathematics and computer science in advancement of Physics, **Jammu, Kautha**, Nov-2017.
13. Presented a paper entitled "A study of almost tangential intersection of hypersurfaces in R^5 " Recent Innovations in science, Technology and Engineering , (RICTE 2017), **NIT Srinagar**, India, Decenber-2017.
14. Presented a paper entitled "Hemi-slant submanifolds of cosymplectic manifolds" in Recent Trends in pure and applied Mathematics, **University of Kashmir**, Dec-2017.
15. Presented a paper entitled "Optimal inequalities for generalized normalized δ -Casorati curvatures of submanifolds in pointwise Kenmotsu space forms" in Recent Advances in Mathematics, **Central University of Jammu**, October-2018.
16. Presented a paper entitled "Inequalities involving Casorati curvatures for submanifolds of real space forms with a quarter-symmetric connection." in Online two days international conference on Mathematical Sciences and computational intelligence, **SMVDU Katra Jammu and Kashmir**, December 2020.
17. Attended NASI-TMC summer school on Differential Geometry, **Central University of Punjab, Bathinda**, July 2021.
18. Attended The Second International Conference of Mathematics and its Applications, **King Khalid University, Saudi Arabia** , October 2021.
19. Attended International Webinar on Applications of Differential Geometry, **Maharishi Markandeshwar University, Haryana**, Febraury 2022.

WORKSHOPS AND CONFERENCES ORGANISED

1. One week workshop "Mathematics wihout boundries" November 23-27, 2020.

PERSONAL DETAILS

Parentage: Mohammad Sultan Lone & Zarifa.

Residential Address: Rehmatabad Watergam Rafiabab, Baramulla J&K-193301.

Official Address: Department of Mathematics, NIT Srinagar, Hazratbal J&K -190006.

Nationality: Indian.

Date of Birth: 15-May-1989.

REFREES

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Jamia Millia Islamia, New Delhi
India - 110025.

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DECLARATION

- I consider myself familiar with various aspects of Mathematics as well as Computer Science, and have a passion towards their applications. I am also aware of my ability to work in a team. And furthermore, I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Srinagar

Date : 15/06/2023

Mehraj Ahmad Lone