

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 Ploieşti, Ploieşti	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 -Casorati curvatures 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, **Matematicki 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 Rafiabad, 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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 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