

# CURRICULUM VITAE

**Dr. Mohamd Saleem Lone**

Email-id : [saleemraja2008@gmail.com](mailto:saleemraja2008@gmail.com)

Mob. No.: +91 7006745319

## PRESENT STATUS

- Working as a contractual faculty at **Department of Mathematics, University of Kashmir**, 190006, India. From 29 March 2021 to till date.

## EMPLOYMENT HISTORY

- Worked as Post-Doc fellow at **International Centre for Theoretical Sciences (ICTS), Tata Institute of Fundamental Research (TIFR), Bengaluru, 560089, India** from 28-March-2018 to 27 March 2021, (03 Years) <https://www.icts.res.in/people/mohamd-saleem-lone>.  
**Mentor:** Prof. Rukmini Dey.
- Worked as a contractual faculty at **NIT Srinagar** and taught various courses at B.Tech and M.Tech level from 11 Sep. 2017 to 22 Jan. 2018.

## SPECIALIZATION

- Differential Geometry
- My Google Scholar page: <https://scholar.google.com/citations?user=2sSBjhEAAAAJ&hl=en>

## FIELDS OF INTEREST

- Riemannian and semi-Riemannian geometry, geometry of submanifolds, comparison of intrinsic and extrinsic invariants of submanifolds, study of constant mean and constant Gaussian curvature surfaces, Minimal surfaces, geometry of curves formed by the intersection of surfaces, smooth curve, Finite type of surfaces.

## EDUCATION:

- **Ph.D**: Awarded in Nov. 2017, Title: Geometry of Curves, Surfaces and Their Applications. Institute: Central University of Jammu (CUJ), and had a co-supervisor from Jamia Millia Islamia New Delhi. Advisors: Prof. S.D. Sharma (CUJ) and Prof. M.H. Shahid (JMI New Delhi).
- **M.Phil Title**: Geometry of hypersurfaces. Institute: Central University of Jammu, Advisor: Dr. R.S. Gupta.
- **Masters**: M.Sc. Mathematics from University of Kashmir, Srinagar, Jammu and Kashmir.

## NATIONAL/STATE LEVEL ACHIEVEMENTS/AWARDS

- Qualified JK SET 2017-18.
- Selected for D. S. Kothari Fellowship, 2020.
- Reviewer of various national/international reputed research journals.

## PUBLICATIONS

1. Biharmonic submanifolds of metallic Riemannian manifolds, published in International Journal of Geometric Methods in Modern Physics.

### Authors

- **Mohamd Saleem Lone**
- *Siraj Uddin*: King Abdulaziz University, Jeddah, Saudi Arabia.
- *Mohammad Hasan Shahid*: Jamia Millia Islamia, New Delhi, India.

2. Basic inequalities for real hypersurfaces in some Grassmannians, published in Mediterrean Journal of Mathematics, <https://link.springer.com/article/10.1007/s00009-021-01863-w>.

### Authors

- **Mohamd Saleem Lone**
- *Mehraj Ahmad Lone*: NIT, Srinagar.

3. On affine minimal translation surfaces and Ramanujan identities, published in *Mediterranean Journal of Mathematics*, [https://link.springer.com/article/10.1007/s00009-021-01849-8?utm\\_source=xmol&utm\\_medium=affiliate&utm\\_content=meta&utm\\_campaign=DDCN\\_1\\_GL01\\_metadata](https://link.springer.com/article/10.1007/s00009-021-01849-8?utm_source=xmol&utm_medium=affiliate&utm_content=meta&utm_campaign=DDCN_1_GL01_metadata)  
**Author**
  - **Mohamd Saleem Lone**
4. Rectifying curves under conformal transformation, published in *Journal of Geometry and Physics*, <https://doi.org/10.1016/j.geomphys.2021.104117>  
**Authors**
  - *Absos Ali Shaikh*: University of Burdwan, West Bengal, India
  - **Mohamd Saleem Lone**
  - *Pinaki Ranjan Ghosh*: University of Burdwan, West Bengal, India
5. Doubly warped product submanifolds of a Riemannian manifold of nearly quasi-constant curvature, published in *Tamkung Journal of Mathematics*, <https://journals.math.tku.edu.tw/index.php/TKJM/article/view/3729>.  
**Authors**
  - *Mehraj Ahmad Lone*: NIT, Srinagar.
  - **Mohamd Saleem Lone**
  - *Mohammad Hasan Shahid*: JMI, New Delhi.
6. Chen's  $\delta$ -invariants type inequalities for bi-slant submanifolds in generalized Sasakian space forms, published in *Journal of Geometry and Physics*, <https://doi.org/10.1016/j.geomphys.2020.104040>  
**Authors**
  - *Siraj Uddin*: King Abdulaziz University, Jeddah, Saudi Arabia.
  - **Mohamd Saleem Lone**
  - *Mehraj Ahmad Lone*: NIT, Srinagar.
7. Geometric invariants of normal curves under conformal transformation in  $\mathbb{E}^3$ , published in *Tamkung Journal of Mathematics*, <https://journals.math.tku.edu.tw/index.php/TKJM/article/view/3611>  
**Author**
  - **Mohamd Saleem Lone**
8. Willmore translation and factorable surfaces in three dimensional simply isotropic spaces, published in *International Conference in Differential Geometry, Algebra and Analysis (ICDGAA-16)*, Springer, [https://doi.org/10.1007/978-981-15-5455-1\\_8](https://doi.org/10.1007/978-981-15-5455-1_8)  
**Author**
  - **Mohamd Saleem Lone**
9. Translation surfaces in affine 3-spaces, published in *Hecettepe Journal of Mathematics and Statistics*, <https://doi.org/10.15672/hujms.564921>.  
**Authors**
  - **Mohamd Saleem Lone**
  - *Hasan ES*: Gazi University, Turkey.
  - *Murat Kemal Karacan*: Usak University, Turkey.
  - *Bahaddin Bukcu*: Gazi Osman Pasa University, Turkey.
10. Conformal image of an osculating curve on a smooth immersed surface, published in *Journal of Geometry and Physics*, <https://doi.org/10.1016/j.geomphys.2020.103625>  
**Authors**
  - *Absos Ali Shaikh*: University of Burdwan, West Bengal, India
  - **Mohamd Saleem Lone**
  - *Pinaki Ranjan Ghosh*: University of Burdwan, West Bengal, India
11. Generalized Wintgen inequality for Legendrian Submanifolds in Sasakian statistical manifolds, published in *GSI 2019*, [https://doi.org/10.1007/978-3-030-26980-7\\_42](https://doi.org/10.1007/978-3-030-26980-7_42).  
**Authors**
  - *Michel Nguiffo Boyom*: IMAG, Alexander Grothendieck Research Institute Universit of Montpellier, Montpellier, France
  - *Mehraj Ahmad Lone*: NIT, Srinagar.

- *Zamrooda Jabeen*: NIT, Srinagar.
- **Mohamd Saleem Lone**: ICTS, TIFR, Bengaluru.
- *Mohammad Hasan Shahid*: JMI, New Delhi.

12. On some curves with modified orthogonal frame in Euclidean 3-space, published in Iranian Journal of Science and Technology, Transactions A: Science, ISSN: 2364-1819, Springer International Publishing, DOI: <https://doi.org/10.1007/s40995-018-0661-2>, accepted on 29 Nov 2018.

**Authors**

- **Mohamd Saleem Lone**
- *Hasan ES*: Gazi University, Turkey.
- *Murat Kemal Karacan*: Usak University, Turkey.
- *Bahaddin Bukcu*: Gazi Osman Pasa University, Turkey.

13. Mannheim curves with modified orthogonal frame in Euclidean 3-space, published in Turkish Journal of Mathematics, Science, ISSN: 1303-6149, DOI: 10.3906/mat-1807-177, 43: 648-663, (2019), <http://journals.tubitak.gov.tr/math/abstract.htm?id=24524>

**Authors**

- **Mohamd Saleem Lone**
- *Hasan ES*: Gazi University, Turkey.
- *Murat Kemal Karacan*: Usak University, Turkey.
- *Bahaddin Bukcu*: Gazi Osman Pasa University, Turkey.

14. Homothetical surfaces in three dimensional pseudo-Galilean spaces satisfying  $\Delta^H \mathbf{x} = \lambda \mathbf{x}$ , published in Advances in Applied Clifford Algebras (AACA), Springer, 29:92,(2019), <https://doi.org/10.1007/s00006-019-1007-7>.

**Author**

- **Mohamd Saleem Lone.**

15. Normal curves on smooth immersed surfaces, published publication in Indian Journal of pure and applied mathematics, <https://link.springer.com/article/10.1007/s13226-020-0469-6>.

**Authors**

- *Absos Ali Shaikh*: University of Burdwan, West Bengal, India
- **Mohamd Saleem Lone**
- *Pinaki Ranjan Ghosh*: University of Burdwan, West Bengal, India

16. Linear Weingarten Revolution surfaces in three dimensional Pseudo-Galilean space, published in Bull. Univ. Transilvania of Brasov, Series III Math. Inform. Physics., ISSN: 2065-2151, Vol 11(60), No. 2 -2018, <http://webbut.unitbv.ro/Bulletin/Series%20III/2018/BULETIN%20I/14%20Lone.pdf>

**Author**

- **Mohamd Saleem Lone**

17. Some characterizations of rectifying curves in four dimensional Galilean space  $\mathbb{G}^4$ , published in Global Journal of Pure and Applied Mathematics, ISSN: 0973-1768, Vol, 13, No. 2 (2017), pp. 579-587., [https://www.ripublication.com/gjppam17/gjppamv13n2\\_33.pdf](https://www.ripublication.com/gjppam17/gjppamv13n2_33.pdf)

**Author**

- **Mohamd Saleem Lone**

18. Differential geometry of transversal intersection curves of hypersurfaces in  $\mathbb{R}^5$ , published in Journal of systems and geometric theories, ISSN: 2169-0057, Vol. 15(2) November 2017, pp. 147-162, <https://www.tandfonline.com/doi/abs/10.1080/1726037X.2017.1411042>

**Authors**

- **Mohamd Saleem Lone**
- *Osmar Alessio*: Universidade Federal Do Triangulo Mineiro-UFTM, UBERABA, MG, Brasil.
- *Mohammed Jamali*: Al-Falah University, Haryana, India.
- *Mohammad Hasan Shahid*: Jamia Millia Islamia, New Delhi, India.

19. Dual Translation surfaces in three dimensional simply isotropic spaces  $\mathbb{I}_3^1$ , published in Tamkung Journal of Mathematics, ISSN: 2073-9826, Vol. 49, No. 1, 67-77, March 2018, <https://journals.math.tku.edu.tw/index.php/TKJM/article/view/2476>

**Authors**

- **Mohamd Saleem Lone**
  - *Murat Kemal Karacan*: Usak University, Turkey.
20. A new approach towards transversal intersection curves of two surfaces in  $\mathbb{R}^3$  published in Geometry Imaging and Computing, ISSN: 2328-8884, Volume 3, Number 3–4, 81–99, 2016, <https://www.intlpress.com/site/pub/pages/journals/items/gic/content/vols/0003/0003/a002/index.html>
- Authors**
- **Mohamd Saleem Lone**
  - *Mohammed Hasan Shahid*: Jamia Millia Islamia, New Delhi, India.
  - *S.D. Sharma*: Central University of Jammu, India.
21. Algorithms for some geometric properties of tangential intersection of two surfaces in  $\mathbb{R}^3$ , published in Advanced Studies in Contemporary Mathematics, ISSN 1229-3067, 27 (2017), No. 3, pp. 347-359., [http://jangjeonopen.or.kr/public/upload/1501645611-ascm27-3-%20\(6\).pdf](http://jangjeonopen.or.kr/public/upload/1501645611-ascm27-3-%20(6).pdf)
- Authors**
- **Mohamd Saleem Lone**
  - *Mohammed Hasan Shahid*: Jamia Millia Islamia, New Delhi, India.
22. Generalized Wintgen Inequality for bi-slant submanifolds in locally conformal Kaehler space, published in Mathematicki Vesnik, ISSN 2406-0682, 70, 3 (2018), 243–249., <http://www.vesnik.math.rs/vol/mv18306.pdf>
- Authors**
- *Mohd Aquib*: Jamia Millia Islamia, New Delhi, India.
  - **Mohamd Saleem Lone**
  - *Mehraj Ahmad Lone*: Central University of Jammu, India.
23. A new approach towards geodesic curvature and geodesic torsion of transversal intersection in  $\mathbb{R}^3$ , published in Facta Universitatis(NIS), SER. MATH. INFORM. ISSN: 0352-9665, Vol. 31, No 3 (2016), 741-749. <http://casopisi.junis.ni.ac.rs/index.php/FUMathInf/article/view/1676>
- Authors**
- **Mohamd Saleem Lone**
  - *Mehraj Ahmad Lone*: Central University of Jammu, India.
  - *Mohammad Hasan Shahid*: Jamia Millia Islamia, New Delhi, India.
24. Hemi-slant submanifolds of cosymplectic manifolds, published in Cogent Mathematics, ISSN: 2574-2558, (2016), 3: 1204143, <https://www.tandfonline.com/doi/pdf/10.1080/23311835.2016.1204143>
- Authors**
- *Mehraj Ahmad Lone*: Central University of Jammu, India.
  - **Mohamd Saleem Lone**
  - *Mohammad Hasan Shahid*: Jamia Millia Islamia, New Delhi, India.

#### COMMUNICATED PAPERS

1. Chen's  $\delta$ -invariants type inequalities for submanifolds in metallic-like statistical manifolds, communicated to Results in Mathematics
- Authors**
- **Mohamd Saleem Lone**
  - *Oğuzhan Bahadır*: Kahramanmaraş Sutcu Imam University, 46040, Kahramanmaraş, Turkey.
2. Basic inequalities for statistical submanifolds in Golden-like statistical manifolds, communicated to Journal of Mathematical Analysis and Applications
- Authors**
- **Mohamd Saleem Lone**
  - *Oğuzhan Bahadır*: Kahramanmaraş Sutcu Imam University, 46040, Kahramanmaraş, Turkey.
3. Biharmonic submanifolds in Golden Riemannian manifolds, communicated to Mediterranean Journal of Mathematics
- Authors**
- **Mohamd Saleem Lone**
  - *Oğuzhan Bahadır*: Kahramanmaraş Sutcu Imam University, 46040, Kahramanmaraş, Turkey.

- *Mehraj Ahmad Lone*: NIT, Srinagar.
  - *Shahnawaz Ahmad Rather*: CUK, Srinagar.
4. Chen Inequality for Statistical Submanifolds of Cosymplectic Manifolds, communicated to Filomat  
**Authors**
- **Mohamd Saleem Lone**
  - *Mehraj Ahmad Lone*: NIT, Srinagar.
5. Basic inequality for statistical submanifolds of quaternion Kaehler-like statistical manifolds, communicated to Journal of Geometry  
**Authors**
- **Mohamd Saleem Lone**
  - *Adela Mihai*,: Technical University of Civil Engineering of Bucharest, Romania.
  - *Mehraj Ahmad Lone*: NIT, Srinagar.

#### WORKSHOPS

- (1) Two day national workshop on "computational Mathematics on SageMath- An Open Source Mathematics Software" held in Central university of Jammu 25-26, Mar 2016
- (2) Two day national workshop on "Algebra and Geometry" held in Central University of Jammu, 2017.
- (3) Participated in workshop on Geometry and Topology for Lecturers 2018, in ICTS, TIFR, Bengaluru.
- (4) Participated in workshop on Integrable Systems in Mathematics, Condensed Matter and Statistical Physics, in ICTS, TIFR, Bengaluru.

#### COLLOQUIUM/INVITED TALKS

- Gave a seminar talk on minimal and finite type of surfaces in ICTS, TIFR, Bengaluru, 26-Oct, 2018, <https://www.icts.res.in/seminar/2018-10-26/mohammed-saleem-lone>.
- Visited University of Kashmir and gave talk on A survey of minimal surfaces, Apr 3-10, 2019 <https://drive.google.com/drive/u/0/folders/1NcU6-s7QHbxrieoQVSUJKrv1z9bvEmJV>.

## CONFERENCES ATTENDED

Conference	Type
(1) Participate International Conference on Algebra, Geometry, Analysis and their Applications, JMI New Delhi, 27-29, 2014	International
(2) A research talk in IRTST-16, National Research Scholars' Conclave on Innovation and Recent Trends in Science and Technology, 2-3, Apr. 2016, NIT Srinagar	National
(3) A research talk in Differential Geometry, Algebra and Analysis, 15-17 Nov 2016 in Jamia Millia Islamia, New Delhi	International
(4) A research talk in Computersystems and Mathematical Sciences, 18-19 Nov 2016 in ITS Ghaziabad	International
(5) A research talk in 3rd National conference on Recent Trends in Mathematical Sciences, 9-10 Feb 2017 in SMVDU, J& K	National
(6) A research talk in International conference on Innovation trends in Applied physical, Chemical, Mathematical sciences, Statistics and emerging energy technology for sustainable development, 8 July 2017 in JNU, New Delhi	International,
(7) A research talk in 20th International Conference of International Academy of Physical Sciences on Recent Advances in Physical Sciences and Future Challenges, 14-16 July 2017 in Osmania University, Hyderabad	International
(8) A research talk in National Conference on Emerging Trends in Applied Sciences at Galgotia University	National
(9) A research talk in 5th International conference on emerging trends in Engineering technology, science and management, aug-2017 in Institution of electronics and telecommunication engineers Ganaga Nagar Benagaluru Karnataka.	International
(10) A research talk in 2nd National Conference on Role of Mathematics and Computer science in advancement of Physics", 10-11 Nov. 2017 in Govt. degree college, Kathua(J& k)	National
(11) A research talk in National Conference on recent innovations in science, technology and engineering, 16 Dec 2017, NIT Srinagar	National
(12) A research talk in National Conference in Pure and Applied Mathematics, 19 Dec 2017, University of Kashmir	National
(13) A research talk in National Conference on Mathematical Science and its applications in GGM Science College Jammu	National
(14) Participated in International Conference on Discussion meeting on zero mean curvature surfaces ICTS-TIFR, 07-59, July 2020	International
(15) Participate International Conference on Riemannian Geometry and Applications, RIGA-2021, Jan 15-17 University of Bucharest, Romania	International

## TECHNICAL SKILLS

- **Languages** (C, C++, Java), **Database** (MySQL), **Tools** (Eclipse,  $\LaTeX$ , Gnuplot, Rstudio, Mathematica, Matlab, Maple).

## PERMANENT ADDRESS

- AM Buran Pattan (Near Railway Crossing), Baramulla, Kashmir, 193121

## PRESENT COMMUNICATION ADDRESS

- Department of Mathematics, University of Kashmir, Hazratbal, Srinagar, 190006, India.

## REFEREES

- Prof. Mohammad Hasan Shahid, JMI, New Delhi, India  
Email: mshahid@jmi.ac.in
- Prof. Siraj Uddin, King Abdulaziz University, Jeddah 21589, Saudi Arabia  
Email: siraj.ch@gmail.com

- Prof. S.D. Sharma, Central University of Jammu, India.  
Email: somdattjammu@gmail.com
- Prof. Rukmini Dey, International Centre for Theoretical sciences, TIFR, Bengaluru, India.  
Email: rukmini@icts.res.in

Date: December 8, 2021