






Dr. Suhail Gulzar Mattoo

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Employment History


August 2016 – Present  **Assistant Professor**, Department of Higher Education, J&K

October 2023–Present : Sri Pratap College, M.A. Road Srinagar.

June 2020–October 2023 : Govt. College of Engineering & Technology, Safapora.



March 2019–June 2020 : Govt. Degree College, Anantnag.

August 2016–March 2019 : Sri Pratap College, M.A. Road Srinagar.

March 2015–August 2016  **Contractual Assistant Professor**, Department of Mathematics, Islamic University of Science & Technology, Awantipora

Education, Eligibility Tests & Fellowships

Education

- 2011 – 2014  **Ph.D., University of Kashmir** Complex Analysis.
Thesis title: *On an inequality of S. Bernstein and estimates for the moduli of the zeros of a polynomial*
- 2005 – 2007  **M.Sc. Mathematics.**

Eligibility Tests

- June 2011  **JRF-NET**, Council of Scientific and Industrial Research
- November 2016  **JK-SET**, University of Kashmir

Awards & Fellowships

- January 2012–December 2013  **Junior Research Fellowship** awarded by *Council of Scientific and Industrial Research*
- January 2014–October 2014  **Senior Research Fellowship** awarded by *Council of Scientific and Industrial Research*

Research Supervision

2019–2023  **PhD Co-supervisor**

Scholar Name : Dr. Liyaqat Ali

University : Department of Mathematics, University of Kashmir

Thesis title : *On an operator preserving inequalities and the location of the zeros of a polynomial.*

Research Supervision (continued)

2019–2025

PhD Co-supervisor











Scholar Name : Dr. Mudassir Ahmad Bhat

University : Department of Mathematics, Chandigarh University








Thesis title : *Development of some operators preserving inequalities and estimates of zero-bounds for polynomials.*

Research Publications



Journal Articles

- 1 M. A. Bhat, R. Kumar, and **S. Gulzar**, "On Arestov's inequalities concerning the Shur-Szegő composition of polynomials," *Periodica Mathematica Hungarica*, vol. 88, no. 2, pp. 300–311, 2024, (Indexed: **Web of Science & SCOPUS**; IF: 0.6).  DOI: 10.1007/s10998-023-00558-x.
- 2 M. Shafi, N. A. Rather, and **S. Gulzar**, "A note on Visser's inequality," *Izvestiya Vysshikh Uchebnykh Zavedenii. Matematika*, no. 11, pp. 51–60, 2024, (Indexed: **Web of Science & SCOPUS**; IF: 0.5).  DOI: 10.26907/0021-3446-2024-11-51-60.
- 3 M. Shafi, N. A. Rather, and **S. Gulzar**, "Estimates for the zeros of a polynomial using matrix inequalities," *Filomat*, vol. 38:33, pp. 11 929–11 938, 2024, (Indexed: **Web of Science & SCOPUS**; IF: 0.9).  DOI: <https://doi.org/10.2298/FIL2433929S>.
- 4 F. Bhat, N. Rather, and **S. Gulzar**, "Inequalities for the generalized derivative of a complex polynomial," *Publications de l'Institut Mathématique*, vol. 114, no. 128, pp. 71–80, 2023, (Indexed: **Web of Science & SCOPUS**; IF: 0.3).  DOI: 10.2298/PIM2328071B.
- 5 M. A. Bhat, R. Kumar, and **S. Gulzar**, "On Bernstein-type inequalities for polynomials with restricted zeros," *The Journal of Analysis*, vol. 31, no. 4, pp. 2603–2611, 2023, (Indexed: **Web of Science & SCOPUS**; IF: 0.7).  DOI: 10.1007/s41478-023-00587-2.
- 6 **S. Gulzar**, N. Rather, and K. Thakur, "Annular regions containing all the zeros of a polynomial," *Indian Journal of Pure and Applied Mathematics*, pp. 1–6, 2023, (Indexed: **Web of Science & SCOPUS**; IF: 0.4).  DOI: 10.1007/s13226-023-00515-x.
- 7 N. Rather, A. Bhat, and **S. Gulzar**, "Certain Bernstein-type L_p inequalities for polynomials," *Acta Scientiarum Mathematicarum*, vol. 89, no. 3, pp. 545–557, 2023, (Indexed: **Web of Science & SCOPUS**; IF: 0.5).  DOI: 10.1007/s44146-023-00074-x.
- 8 L. Ali, N. Rather, and **S. Gulzar**, "Gauss Lucas theorem and Bernstein-type inequalities for polynomials," *Acta Universitatis Sapientiae, Mathematica*, vol. 14, no. 2, pp. 211–219, 2022, (Indexed: **Web of Science & SCOPUS**; IF: 0.5).  DOI: 10.2478/ausm-2022-0013.
- 9 **S. Gulzar**, M. A. Bhat, and R. Kumar, "On operators preserving inequalities between polynomials," *North-Western European Journal of Mathematics*, no. 8, pp. 187–195, 2022, Indexed: **SCOPUS**).  URL: <https://nwejm.univ-lille.fr/index.php/nwejm/article/view/15>.
- 10 **S. Gulzar**, N. Rather, and M. Wani, "On Visser's inequality concerning an estimation of polynomial coefficients," *Russian Mathematics*, vol. 66, no. 3, pp. 9–15, 2022, (Indexed: **Web of Science & SCOPUS**; IF: 0.5).  DOI: 10.3103/S1066369X22030033.
- 11 N. A. Rather, **S. Gulzar**, and A. A. Bhat, " L_p inequalities for the growth of polynomials with restricted zeros," *Archivum Mathematicum*, vol. 58, no. 3, pp. 159–167, 2022, (Indexed: **Web of Science & SCOPUS**; IF: 0.5).  URL: <https://emis.de/journals/AM/22-3/index.html>.
- 12 R. N. Ahmad, **S. Gulzar**, and B. Aijaz, "On Zygmund-type inequalities concerning polar derivative of polynomials," *Ural Mathematical Journal*, vol. 7, no. 1 (12), pp. 87–95, 2021, (Indexed: **SCOPUS**).  DOI: 10.15826/umj.2021.1.007.

- 13 N. Rather, I. Dar, and **S. Gulzar**, "On the zeros of certain composite polynomials and an operator preserving inequalities," *The Ramanujan Journal*, vol. 54, pp. 605–612, 2021, (Indexed: **Web of Science** & **SCOPUS**; **IF: 0.6**).
DOI: 10.1007/s11139-020-00261-2.
- 14 N. A. Rather, L. Ali, and **S. Gulzar**, " L_p inequalities for the polar derivative of a lacunary-type polynomial," *Vestnik of Saint Petersburg University Mathematics*, vol. 8, no. 3, pp. 502–510, 2021, (Indexed: **SCOPUS**). DOI: 10.21638/spbu01.2021.311.
- 15 **S. Gulzar**, N. Rather, and F. Bhat, "The location of critical points of polynomials," *Asian-European Journal of Mathematics*, vol. 12, no. 07, p. 1950087, 2019, (Indexed: **Web of Science** & **SCOPUS**; **IF: 0.5**). DOI: 10.1142/S1793557119500876.
- 16 N. Rather and **S. Gulzar**, "A note on a recent attempt to prove Sendov's conjecture," *arXiv preprint arXiv:1903.04026*, 2019.
- 17 **S. Gulzar** and N. Rather, "On a composition preserving inequalities between polynomials," *Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences)*, vol. 53, pp. 21–26, 2018, (Indexed: **Web of Science** & **SCOPUS**; **IF: 0.4**). DOI: 10.3103/S1068362318010041.
- 18 N. Rather, **S. Gulzar**, and K. Thakur, "Some inequalities concerning integral estimates for polynomials," *Journal of Interdisciplinary Mathematics*, vol. 21, no. 7–8, pp. 1481–1490, 2018, (Indexed: **Web of Science** & **SCOPUS**; **IF: 1.1**). DOI: 10.1080/09720502.2015.1086115.
- 19 **S. Gulzar** and N. Rather, " L_p inequalities for the Schur-Szegő composition of polynomials," *Acta Mathematica Hungarica*, vol. 151, no. 1, 2017, (Indexed: **Web of Science** & **SCOPUS**; **IF: 0.7**). DOI: 10.1007/s10474-016-0668-0.
- 20 **S. Gulzar** and N. Rather, "Inequalities concerning the polar derivative of a polynomial," *Bulletin of the Malaysian Mathematical Sciences Society*, vol. 40, pp. 1691–1700, 2017, (Indexed: **Web of Science** & **SCOPUS**; **IF: 1.1**). DOI: 10.1007/s40840-015-0183-4.
- 21 **S. Gulzar**, N. Rather, and K. Thakur, "Bounds for the zeros of complex-coefficient polynomials," *Annales mathématiques du Québec*, vol. 41, pp. 105–110, 2017, (Indexed: **Web of Science** & **SCOPUS**; **IF: 0.5**). DOI: 10.1007/s40316-016-0064-8.
- 22 **S. Gulzar**, "On estimates for the coefficients of a polynomial," *Comptes Rendus Mathématique*, vol. 354, no. 4, pp. 357–363, 2016, (Indexed: **Web of Science** & **SCOPUS**; **IF: 0.79**). DOI: 10.1016/j.crma.2016.01.018.
- 23 **S. Gulzar**, "Some Zygmund type inequalities for the s th derivative of polynomials," *Analysis Mathematica*, vol. 42, pp. 339–352, 2016, (Indexed: **Web of Science** & **SCOPUS**; **IF: 0.6**). DOI: 10.1007/s10476-016-0403-7.
- 24 **S. Gulzar** and N. Rather, "Location of the zeros of polynomials," *Thai Journal of Mathematics*, vol. 13, no. 2, pp. 461–465, 2015, (Indexed: **Web of Science** & **SCOPUS**; **IF: 0.3**). URL: <https://thaijmath2.in.cmu.ac.th/index.php/thaijmath/article/view/523>.
- 25 N. Rather, **S. Gulzar**, and K. Thakur, "Growth of a polynomial not vanishing inside a disk," *Non Linear Functional Analysis and Applications*, vol. 20, no. 3, pp. 489–489, 2015, (Indexed: **SCOPUS**). URL: <http://nfaa.kyungnam.ac.kr/journal-nfaa/index.php/NFAA/article/view/349>.
- 26 N. Rather, **S. Gulzar**, and K. Thakur, "Rate of growth of polynomials not vanishing inside a disk," *Nonlinear Functional Analysis and Applications*, vol. 20, no. 1, pp. 97–107, 2015, (Indexed: **SCOPUS**). URL: <http://nfaa.kyungnam.ac.kr/journal-nfaa/index.php/NFAA/article/view/279>.
- 27 **S. Gulzar** and N. A. Rather, "Refinements of some inequalities concerning the polar derivative of a polynomial," *Functiones et Approximatio Commentarii Mathematici*, vol. 51, no. 2, pp. 269–283, 2014, (Indexed: **Web of Science**). DOI: 10.7169/facm/2014.51.2.3.
- 28 N. Rather, S. Ahangar, and **S. Gulzar**, "On the polar derivative of a polynomial," *Matematički Vesnik*, vol. 67, pp. 56–60, 2014, (Indexed: **Web of Science** & **SCOPUS**; **IF: 0.4**). URL: <http://www.vesnik.math.rs/landing.php?p=mv151.cap&name=mv15106>.
- 29 N. Rather and **S. Gulzar**, "Generalization of an inequality involving maximum moduli of a polynomial and its polar derivative," *Nonlinear Functional Analysis and Applications*, vol. 19, no. 2, pp. 213–221, 2014, (Indexed: **SCOPUS**). URL: <http://nfaa.kyungnam.ac.kr/journal-nfaa/index.php/NFAA/article/view/232>.

- 30 N. Rather and **S. Gulzar**, "On the Eneström-Kakeya theorem," *Acta Mathematica Universitatis Comenianae*, vol. 83, no. 2, pp. 291–302, 2014, (Indexed: **Web of Science** & **SCOPUS**; **IF: 0.4**).  URL: <http://www.iam.fmph.uniba.sk/amuc/ojs/index.php/amuc/article/view/18>.
- 31 N. Rather, **S. Gulzar**, and K. Thakur, "Some integral mean estimates for polynomials," *New Zealand Journal of Mathematics*, vol. 44, pp. 83–91, 2014, (Indexed: **SCOPUS**).  URL: <https://shorturl.at/nuZ2v>.
- 32 N. A. Rather, F. A. Bhat, and **S. Gulzar**, "Some L_r inequalities involving the polar derivative of a polynomial," *Applied Mathematics E-Notes*, vol. 14, pp. 116–122, 2014, (Indexed: **Web of Science**; **IF: 0.4**).  URL: <https://www.math.nthu.edu.tw/~amen/>.
- 33 N. A. R. Gulzar and Suhail, "Certain compact generalizations of well known polynomial inequalities," *Australian Journal of Mathematical Analysis and Applications*, vol. 10, pp. 1–16, 2013, (Indexed: **SCOPUS**).  URL: <https://ajmaa.org/cgi-bin/paper.pl?string=v10n1/V10I1P6.tex>.
- 34 N. Rather and **S. Gulzar**, "Some compact generalizations of well-known inequalities for polynomials," *Nonlinear Functional Analysis and Applications*, vol. 17, no. 3, pp. 361–381, 2013, (Indexed: **SCOPUS**).  URL: <http://nfaa.kyungnam.ac.kr/journal-nfaa/index.php/NFAA/article/view/39>.
- 35 N. A. Rather, **S. Gulzar**, and S. Saheel, "New operator preserving integral inequalities between polynomials," *Nonlinear Functional Analysis and Applications*, vol. 18, no. 2, pp. 227–251, 2013, (Indexed: **SCOPUS**).  URL: <http://nfaa.kyungnam.ac.kr/journal-nfaa/index.php/NFAA/article/view/175>.
- 36 N. A. Rather and **S. Gulzar**, "On annulus containing all the zeros of a polynomial," *Applied Mathematics E-Notes*, vol. 13, pp. 155–159, 2013, (Indexed: **Web of Science**; **IF: 0.4**).  URL: <https://www.math.nthu.edu.tw/~amen/>.

Conference Proceedings

- 1 F. A. Mala, **S. Gulzar**, and R. Poonia, "A new bound for the enumeration of transitive relations," in *AIP Conference Proceedings*, AIP Publishing, vol. 2735, 2023.  DOI: <https://doi.org/10.1063/5.0140194>.
- 2 F. A. Mala, **S. Gulzar**, and R. K. Poonia, "Inequalities concerning transitive and equivalence relations," in *Advances in Pure and Applied Algebra: Proceedings of the CONIAPS XXVII International Conference*, 2021, p. 3.  DOI: <https://doi.org/10.1515/9783110785807-001>.

Conferences, Workshops & Training Programs

Conferences

- Participated & present a paper titled "On an operator on the space of polynomials" in 3-day International (Online) Conference "Recent Trends in Mathematics" (22–24th December, 2021 organized by Hansraj College, University of Delhi).
- Participated in a National conference on "Recent trends in pure and Applied Mathematics" organized by Department of Mathematics, University of Kashmir, Srinagar on December 19, 2017.
- Presented paper at 10th JK Science Congress, Kashmir University 01–03 October 2013.
- Participated in the 9th JK Science Congress, Kashmir University 17–19 September 2012.

Conferences, Workshops & Training Programs (continued)

■ Refresher and Induction Courses

- Successfully completed Two Week interdisciplinary Refresher course on **ICT in Academics and Research** during 16th December 2024 to 30th December 2024 organised under Malviya Mission Scheme by Hansraj College, University of Delhi.
- Successfully completed **NPTEL-AICTE** Faculty Development Program on "*Algebra-I*" during July-October 2024.
- Successfully completed **NPTEL-AICTE** Faculty Development Program on "*Functional Analysis*" during January-April 2022.
- Successfully completed one-week online International Faculty Development Program on "*Advanced Linear Algebra*" organised by Miranda House, University of Delhi from 27th September to 01 October 2021 under PMMMNMTT.
- Successfully completed two-week refresher course in "*Mathematics*" from 16-30 March 2021 organized by Ramanujan College, University of Delhi under PMMMNMTT.
- Participated in one-week online Faculty Development Program on "*E-Learning*" organised by E& ICT Academy, IIT Guwahati from 7-14 September 2020.
- Attended a national level one week faculty training & development special *online e-learning tools workshop with hands-on training* from 28th May 2020 to 3rd June 2020 organized by MAKKSKILLS.
- Attended a three-week "*General Orientation Course*" at the Institute of Advanced Studies in Education, Srinagar from 01/10/2016 to 24/10/2016.
- Attended a one-week short-term course on "*Research Methodology in Science (Using Statistical Softwares)*" organized by UGC-Academic staff college, University of Kashmir Srinagar, 27th August to 1st September, 2012.

■ Workshops

- Participated in the "*Workshop on geometry of Banach spaces & its applications*" held at IIIT Allahabad during December 31, 2021 to January 02, 2022.
- Attended a one-day workshop on "*Quantum Computing & Artificial Intelligence*" on 20th March, 2019 organized by Cluster University Srinagar at S.P. College.
- Participated in 2-day National workshop on "*Contemporary Approaches to Teacher Education*" organised by Cluster University Srinagar on 11th & 12th April 2018.
- Attended a two-day National Seminar on "*Mathematics & its applications*" organized by the Department of Mathematics, Govt. Degree College, Pulwama during March 15-16, 2016.
- Co-organized a two-day workshop entitled "*IMPACT, Math Festival (2016)*" with the Department of Mathematics, Islamic University of Science & Technology, Awantipora on March 19-20, 2016.
- Participated in the "*Instructional Schools for Lecturers in Linear Algebra*" conducted in CEMS, Department of Mathematics, SSJ Campus, Kumaun University, Almora during 17th March 2014 to 29th March 2014.
- Attended a National-level workshop on "*Mathematica and related softwares*" organized by the Jammu and Kashmir Institute of Mathematical Sciences, Srinagar during February 24th to 2nd March, 2014.
- Participated in an Advanced-level workshop on "*Non-linear Functional Analysis and its Applications*" (NFAA-2013) sponsored by DST Government of India, held at the University of Kashmir, Srinagar during October 21-29, 2013.
- Attended workshop and conference on "*Recent Advances in Operator Theory and Operator Algebras*" at the Indian Statistical Institute, Bangalore 31 December 2012 to 11 January 2013.
- Participated in the *9th Annual Foundation School-I* held at Chennai Mathematical Institute, December 03-29, 2012.
- Participated in the "*Two-day Telescope/Spectroscope making workshop*" jointly organized by the Department of Physics, Kashmir University and IUCAA Pune on 7th and 8th October 2009 at Kashmir.

Skills & Administrative Experience

Skills

Languages	■	Reading, writing and speaking competencies for English, Urdu and Kashmiri.
Coding	■	Python, R, \LaTeX
Misc.	■	Academic research, teaching, training, \LaTeX typesetting and publishing.

Administrative Experience

College Committees	■	I have served on various college committees, such as the Purchase and Development Committees, in different roles including Convener and Member.
January 2024–December 2024	■	Coordinator , IGNOU Study Centre 1209, Sri Pratap College

References

- Professor N.K. Govil,
Department of Mathematics & Statistics,
Auburn University,
Alabama USA