

Name: Idrees Qasim
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Nationality: Indian
DOB: 01/03/1989
Affiliation: Assistant Professor (GII, L11), Department of Mathematics, NIT Srinagar
Area of Specialization: Complex Analysis, Hypercomplex Analysis



SUMMARY, AWARDS AND ACHIEVEMENTS

- M.Sc. Mathematics (**Gold-Medalist**) from University of Kashmir.
- **Cash Price and Merit Certificate Awarded** by University of Kashmir for overall Performance in M.Sc.
- SET (State Eligibility Test for Assistant Professor) Mathematics Qualified.
- NET (National Eligibility Test) Mathematics Qualified.
- **Inspire Fellowship Awarded** under ID (IF130798) by Department of Science and Technology, New Delhi, India.
- Ph.D. Mathematics from National Institute of Technology, Srinagar, India.
- Developed the Android App **Inspire Maths** for undergraduate Mathematics students, which has 179000 installs and a rating of 4.1.
- Worked with Chegg.com and GotIt as SME (Subject Matter Expert) and Tutor with Vedanta.
- Presently Working as Assistant Professor Mathematics, NIT Srinagar.

TEACHING INTERESTS

- Complex Analysis
- Abstract Algebra
- Ordinary Differential Equations
- Partial differential equations
- Calculus
- Linear Algebra
- Numerical Methods
- Theory of Matrices
- Real Analysis

ACADEMIC QUALIFICATION:

S.No	Degree	Subjects	University/college	Rank
01	B.Sc	Math, Physics, Geography, English	Govt. Degree College Handwara	First
02	M.Sc	Mathematics	University of Kashmir	First <i>Gold Medalist</i>
03	Ph.D	Mathematics	NIT, Srinagar	A ⁺
04	NET	Mathematics	CSIR	14
05	SET	Mathematics	UGC	01
06	Inspire Fellowship Awarded	Mathematics	DST	

TEACHING EXPERIENCE

- Experienced in teaching courses: Complex Analysis, Calculus, Linear Algebra, Ordinary and Partial Differential Equations, Theory of Matrices, Theory of equations, Real Analysis, Numerical Analysis, Topology, Abstract Algebra, Integral Calculus, etc. at National Institute of Technology, Srinagar.
- Taught Complex Analysis, Calculus, at Central University of Kashmir for seven Months.
- Involved in conducting Examinations of B. Tech., M. Tech. and M. Phil. Students and organizing Workshops/ Conferences.
- Designed and modified curriculum of various B. Tech., Semesters. Preparing administering, grading assignments of students.

INTERNATIONAL PUBLICATION:

1. **Idrees Qasim**, A. Liman, *Bernstein type Inequalities for Rational Functions*, Indian J. of pure and Appl. Math. 46(3): 337-348, June 2015.
2. A. Liman, **I.Q. Peer**, W. M. Shah, *On Bernstein type Inequalities for Polar derivative of Polynomial*. The Ramanujan Journal, 38: 349–360, 2015.

3. **Idrees Qasim**, A. Liman and W.M. Shah, Refinement of some Bernstein type inequalities for B_n operator of polynomials, *Periodica Mathematica Hungarica*. **74**(1): 1-10, 2017.
4. **Idrees Qasim**, "New Integral Mean Estimates for the Polar Derivative of a Polynomial", *Lobachevskii Journal of Mathematics*, **39**(09): 1407-1418, 2018.
5. **Idrees Qasim**, "Bernstein-Type Inequalities Involving Polar Derivative of a Polynomial", *Lobachevskii Journal of Mathematics*, 2021, Vol. 42, No. 1, pp. 173–183.
6. **Idrees Qasim**, "Refinement of Bernstein-Type inequalities for Rational Functions, *Problemy Analiza-Issues of Analysis*, 11 (29), 1, 2022, pp. 122–132
7. **Idrees Qasim**, Tawheeda Rasool, Abdul Liman, Number of Zeros of a Polynomial (Lacunary-Type) in a Disk, *Journal of Mathematics and Applications*, **41**: 181-194, 2018.
8. **Idrees Qasim**, Tawheeda Rasool, Abdul Liman, Location of Zeros of Lacunary-Type Polynomials, *Journal of Mathematics and Applications*, **41**: 171-180, 2018.
9. A. Liman, **Idrees**, on some Bernstein type Inequalities, *International Journal of Modern Mathematical Sciences*, 2013, **82**, 96-101.
10. **Idrees Qasim**, Tawheeda Rasool, Number of zeros of Analytic Functions in a Disk, *IJARSE*, 2017, **06**(01), 953-962.
11. **Idrees Qasim**, A. Liman, An integral Mean Estimate For the Polar Derivative of a Polynomial whose zeros are within a Circle, *IJARSE*, 2018, **07**(10), 232-237.
12. **Idrees Qasim**, Tawheeda Rasool, Number of zeros of Polynomial in a Disk, *IJARSE*, 2017, **06**(03), 435-442.
13. **Idrees Qasim**, Inequalities for self-inversive rational functions, *Boletim da Sociedade Paranaense de Matematica*, 42 (2024), 1-6.
14. **Idrees Qasim**, Location of zeros of quaternionic polynomials, *ANNALIDELL'UNIVERSITA' DI FERRARA* (2025) 71:14, <https://doi.org/10.1007/s11565-024-00568-8>.

15. **Idrees Qasim**, Inequalities for rational functions in the complex plain, Filomat, 39:20, 6887-6897 (2025).
16. **Idrees Qasim**, Abdullah Mir, Operator preserving inequalities between polynomials, Applicable Analysis and Discrete Mathematics, 19 (2025), 476-487.
17. **Idrees Qasim**, Sivaramakrishnan Chinnakali, Some Inequalities Concerning to the Polar Derivative of a Polynomial with restricted zeros, Boletim da Sociedade Paranaense de Matematica, (Accepted)
18. **Nusrat Ahmad Dar, Idrees Qasim, Abdul Liman**, SOME LOWER BOUND ESTIMATES FOR THE GENERALIZED DERIVATIVE OF A POLYNOMIAL, Korean Journal of Matheamtics, (Accepted)
19. Gradimir V. Milovanović, Abdullah Mir, **Idrees Qasim**, See keong Lee, Bernstein type inequalities for one class of complex, Bulletin T.CLVII de l'Académie serbe des sciences et des arts – 2024 Classe des Sciences mathématiques et naturelles Sciences mathématiques, No 49, 31-47.
20. Gradimir V. Milovanović, Idrees Qasim, Abdullah Mir, On Bernstein-type estimates for linear operator acting on polynomials, Journal of Mathematical Inequalities, 4 (2025), 1313–1326
21. Ovaisa Jan, Idrees Qasim, On the location of eigenvalues of quaternion matrix polynomial, Applicable Analysis and discrete Mathematics, 19 (2025), 411–421. DOI: [10.2298/AADM240801018J](https://doi.org/10.2298/AADM240801018J)
22. Abdullah Mir, Idrees Qasim, On an operator preserving Bernstein-type inequalities for polynomials, Indian, Journal of pure and applied mathematics, <https://doi.org/10.1007/s13226-025-00877-4>
23. Nusrat Ahmad Dar, Idrees Qasim and A. Liman, Enestrom-Kakeya conditions and zeros Geometry in Quaternionic Polynomials, Journal of Contemporary Mathematical Analysis, (Accepted)
24. Idrees Qasim, Ovaisa Jan, Turan type inequalities for quaternionic polynomials, Mathematical Notes (Accepted).

25. Idrees Qasim, Ovaisa Jan, On the polar derivative of a Bicomplex Polynomial, Filomat (Accepted)
26. Ovaisa Jan, Idrees Qasim, Laguerre theorem for bicomplex polynomials, Annali Dell Università Di Ferrara (Accepted)

LIST OF CONFERENCES/WORKSHOPS ATTENDED/COORDINATED

1. Presented a paper “On some Bernstein type inequalities concerning polar derivative of a polynomial” in ICSFA at School of Mathematics and computer Applications, Thapar University, Patiala during 16-18 Oct. 2014.
2. Presented a paper “Refinement of some Bernstein-type Inequalities for B_n operator of polynomials with restricted zeros”, in national conference on complex analysis and applications, at NIT Srinagar, on 17 April-2016.
3. Presented a paper, “On Some Bernstein Type Inequalities”, in National Conference on Analysis and Applications on November 19-20, 2012.
4. Presented a paper “Number of zeros of an Analytic Function in a Disk”, in International Conference on recent Innovations in Science, Agriculture, Engineering and Management, at University College of Computer Applications Guru Kashi University on 20th Nov. 2017.
5. Presented a Paper “Number of zeros of a polynomial in a Disk”, in One Day National Conference on “Recent Innovations in Science, Technology and Engineering” at NIT Srinagar, on 16 Dec. 2017.
6. Presented a Paper “An integral Mean Estimate for the Polar Derivative of a Polynomial whose zeros are within a Circle”, in National Conference on new Frontiers of Engineering, Science, Management, Humanities at School of Electronics and communication engineering REVA University, Bengaluru 12th -13th Oct. 2018.
7. Participated in NBHM sponsored Programme AFS-II workshop at KSOM during 2nd -28th Dec. 2013.
8. Participated in Mini MTTS Programme organized by JKIMS during 2015.
9. Participated in Mini MTTS Programme organized by JKIMS from 2nd -12th August 2014.

10. Participated in workshop on MATHEMATICA and related software held at JKIMS from 24th – 30 Feb 2014.
11. Participated in TECHVAGANZA at National Institute of Technology, Hazratbal, Srinagar from 24th -26th May 2014.
12. Coordinated MTTS two weeks online programme for Jammu and Kashmir from 15/01/2022 to 29/01/2022.
13. Presented a research paper, Inequalities for rational functions in the complex plane, in ICAAMM 2026 Turkey.

JOURNALS AND PUBLICATION HOUSES REVIEWED:

- Korean Journal of Mathematics
- Cambridge University Press
- Boletim da Sociedade Paranaense de Matemática
- Annali Dell Universita Di Ferrara
- International Journal of Nonlinear Analysis and Applications

MY MENTORS

Prof. Abdul Liman (NIT Srinagar) Ph.D. Advisor

Prof. Wali Mohammad Shah (Central University of Kashmir).

MY PH.D. THESIS DEFENCE EXPERT: Prof. S. Pannumasy (IIT Madras).

WORKED AS RESOURCE PERSON:

1. Created online lectures on Real Analysis for university of Kashmir and affiliated colleges (2019).
2. Working on online lecture creation on Differential Calculus for Cambridge University Press.

Idrees Qasim

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