

Dr. Istkhar Ali

(**Email:** iaansari1986@gmail.com, iaansarisps@gmail.com)



Current Position

Position : Guest Faculty
Department : Department of Mathematics and Scientific Computing
Institution : Madan Mohan Malaviya University of Technology, India

Academic Qualifications

Degree	Board/University	Year	Subject	%
10	Uttar Pradesh, Allahabad	2000	Hindi, English, Mathematics, Science, Social Science, Drawing	57.66
10+2	Uttar Pradesh, Allahabad	2002	General Hindi, English, Mathematics, Physics, Chemistry	60.60
B.Sc.	DDU Gorakhpur University	2005	Mathematics, Physics, Chemistry	53.83
M.Sc.	DDU Gorakhpur University	2007	Mathematics	78.07
Ph.D.	Indian Institute of Technology Indore	2017	Mathematics	7.05(CPI)

Extra Qualifications

Degree	Board/University	Year	Subject
GATE	MHRD Gov. of India	2009	Mathematics
JRF-NET	Council of Scientific & Industrial Research	2010	Mathematics
GATE	MHRD Gov. of India	2010	Mathematics

Thesis Title: “Localization Theorems and Perturbation Analysis on Quaternionic Eigenvalue Problems”

Fellowship & Awards

Scholarship	Institute/Awarded by	Year
SRF	CSIR, India	December 2011 to December 2015
JRF	GATE	January 2011 to November 2011

Teaching Experience

- I have worked as a Lecturer (03-08-2009 to 25-12-2010) at Suyash Institute of Information Technology Gorakhpur, Uttar Pradesh, India.
- I have worked as an Assistant Professor (08-8-2017 to 30-11- 2018) at Institute of Technology and Management, Gorakhpur, India.

Research Interests

Numerical Linear Algebra, Matrix Perturbation Theory

Area of Teaching Interest

Analysis, Algebra, Linear Algebra, Calculus, Geometry, Engineering Mathematics, and all area of Pure and Applied Mathematics.

Research Collaborators

- Prof. Sk. Safique Ahmad (IIT Indore, India), Prof. Ivan Slapničar (University of Split, Croatia), Prof. Ninoslav Truhar (University of Osijek, Croatia)

Research Visit

- Research visit under project funded by Croatian Science Foundation, Croatia during December 07, 2018 to June 30, 2019

Skill

Software Packages: Matlab, Mathematica, MS office, Latex

Research Publications

International Journal

- **Sk. Safique Ahmad and Istkhar Ali**, Bounds for eigenvalues of matrix polynomials over quaternion division algebra, *Advances in Applied Clifford Algebras*, 26:1095-1125, 2016.
- **Sk. Safique Ahmad and Istkhar Ali**, Localization theorems for matrices and bounds for the zeros of polynomials over a quaternion division algebra, *Filomat*, 32(2):553-573, 2018.
- **Istkhar Ali**, A note on quaternion matrices and split quaternion matrix pencils, *J. Appl. Math. Comput.*, 58:323-334, 2018.
- **Istkhar Ali**, Bounds for the right spectral radius of quaternionic matrices, Accepted in *Ukrainian Mathematical Journal*, 2018.
- **Istkhar Ali and Ninoslav Truhar**, Location of right eigenvalues of quaternionic matrix polynomials, *Advances in Applied Clifford Algebras*, 29-80, 2019.
DOI: <https://doi.org/10.1007/s00006-019-0998-4>

Communicated Papers

- **Sk. Safique Ahmad, Istkhar Ali, Ivan Slapničar**, Perturbation analysis of matrices over a quaternion division algebra.

Under Preparation

- **Istkhar Ali and Ninoslav Truhar**, Perturbation Analysis of Quadratic Right Eigenvalue Problems.
- **Sk. Safique Ahmad, Istkhar Ali**, Location for zeros of polynomials and eigenvalues of matrix pencils over a quaternion division algebra

Invited Talks

- Department of Mathematics, Josip Juraj Strossmayer University of Osijek, Croatia, January 16, 2019.
Title: Localization Theorems for Quaternionic Matrices and their Applications.
- Department of Mathematics, Josip Juraj Strossmayer University of Osijek, Croatia, May 02, 2019.
Title: A Note on Left and Right Eigenvalues of Quaternionic Matrices.
- Department of Mathematics, University of Split, Croatia, June 12, 2019.
Title: Location for the Eigenvalues of Quaternionic Matrices and its Applications

Papers/Posters Presented in Conference

1. **Sk. Safique Ahmad and Istkhar Ali**, *Localization theorems for quaternionic matrices*, International Congress of Mathematicians(ICM) 2014, August 13-21, Coex, Seoul, South Korea.
2. **Istkhar Ali and Sk. Safique Ahmad**, *Sharper bounds for the zeros of quaternionic polynomials*, International Congress of Mathematicians(ICM) 2014, August 13-21, Coex, Seoul, South Korea.

Workshops Attended

- International Conference on Numerical Linear Algebra and its Applications, Dept. of Mathematics, IIT Guwahati, 15-18 January, 2013
- International Workshop on Linear Algebra and its Applications during Nov. 26-27, 2012 in DAVV, Indore, MP. India.

Personal Details

Name: Istkhar Ali
Father's Name: Ashik Ali Ansari
Date of Birth: 20 July 1986
Nativity: Indian
Permanent Address: Village Trilokpur, Post Zara, District Maharajganj, Pin Code: 273164, Uttar Pradesh, India
Marital Status: Married

Languages known

English, Hindi, Urdu

Decelaration

I hereby declare that the above statements made by me are true to the best of my knowledge and belief.

Date: September 09, 2019
Place: Gorakhpur, India

Isthar Ali

(Signature of Applicant)