



# Uqba Rafat

## Curriculum Vitae

*"Motivating and talented professional driven to inspire students to pursue academic and personal excellence. Strives to create a stimulating and engaging learning environment in which students can become life-long scholars and learners. To cultivate student leadership, I try to display curiosity and attempt to fit the experiences into a clear understanding of the subject"*

### Education

- 2019-Present **Ph.D. Applied Mathematics**, Aligarh Muslim University, Aligarh.
- 2013-2015 **Masters of Science, Mathematics**, Aligarh Muslim University, Aligarh, India, Div-I.
- 2010-2013 **Bachelor of Science, Mathematics**, Mahatma Jyotiba Phule Rohilkhand University, Bareilly, India, Div-I.
- 2007-2009 **Intermediate**, St' Paul's College, I.S.C-Board, Moradabad. Div-I.
- 2007 **High School**, St' Paul's College, I.C.S.E-Board, Moradabad. Div-I.

### Awards/Achievements

- 2017 **Joint CSIR-UGC-NET in Mathematical Sciences**, AIR-68.
- 2018 **GATE-2018 in Mathematics**, Conduct by IIT-Guwahati, Gate Score-311.

### Experience

- 2018-19 **Assistant Professor**, Mohammad Ali Jahaur University, Rampur. Department of Mathematics.
- 2022-Present **Assistant Professor**, Integral University, Lucknow. Department of Mathematics and Statistics, faculty of Science.

## Ph.D. Thesis

- Title **Generalised Variational Inclusions Problem and Fixed Point Problems in Hilbert Spaces**
- Supervisors **Prof. Shamshad Husain**, Former chairperson and Professor, Department of Applied Mathematics, Aligarh Muslim University, India.
- Topic Fixed Point Theory
- Broad Nonlinear Functional Analysis
- Subject Area To develop and extend certain core of fixed point problems involving several types of conditions on nonlinear operators and further to apply these results to find improved convergence rate of the proposed algorithms.

## Domain of Interests

Functional Analysis, Real Analysis, Modern and Abstract Algebra, Complex Analysis, Topology, Linear Algebra, Ordinary/Partial Differential Equation.

## Publications

### Published/Accepted

- 2021 **S. Husain, U. Rafat and M. Asad**, *A Study of Self-Adaptive Inertial Algorithm for Solving Split Equilibrium Problem for a Finite Family of Nonlinear bi-Functions in Real Hilbert Space*, Journal of Chengdu University, (Published).  
<https://doi.org/10.5281/zenodo.5514155>
- 2021 **S. Husain, U. Rafat**, *Inertial Modified S-Iteration Process for Split Monotone Inclusion and Fixed Point Problem in Real Hilbert Space*, Journal of Nonlinear and Convex Analysis, JNCA, (Published).  
Volume 24, Number 2, 2023, 237–249
- 2022 **S. Husain, U. Rafat**, *Accelerated Tseng's Technique to Solve Cayley Inclusion Problem in Hilbert Spaces*, Kyungpook Mathematical Journal, KMJ, (Published).  
DOI: 10.5666/KMJ.2022.62.4.673
- 2022 **S. Husain, U. Rafat**, *Algorithm for Higher Order Variational Inequalities in Hadamard Manifold*, Proceedings in the International Conference on Nonlinear Analysis and Optimization, ICNAAO 2021 - IIT-BHU, (Communicated).
- 2022 **S. Husain, U. Rafat**, *An Introduction to Cayley's Split Inclusion Problem in Real Hilbert Space*, (Communicated).

## Conferences (Selected)

- 2021 **Presented a paper in the "27TH International Conference of International Academy of Physical Sciences (CONIAPS-XXVII) on Functional and Numerical Analysis"**, Organised by School of Studies in Mathematics, Pt. Ravishankar Shukla University Raipur, Chhattisgarh, India, during October, 26-28, 2021.
- 2021 **Presented a paper in the "International Conference on Nonlinear Applied Analysis and Optimization 2021"**, Organised by Department of Mathematical Sciences, IIT (BHU), Varanasi, during Dec 21-23, 2021.

2021 **Presented a paper in the "1st International Symposium on Recent Advances in Fundamental and Applied Sciences (ISFAS-2021)"**, Organised by Atatürk University, Erzurum, Turkey, during Sep 10-12, 2021.

2021 **Attend the "The Second International Conference of Mathematics and Applications (KKU-ICMA-2021)"**, Organised by King Khalid University, Abha, Saudi Arabia, during Oct, 19-20, 2021.

#### Workshops and Training Programmes

2021 **Participated in the International Faculty Development Programme "The Role of Linear Algebra in Machine Learning, Artificial Intelligence and Data Science"**, organized by the Departments of Mathematics and Humanities, Computer Science Engineering and Information Technology, Mahatma Gandhi Institute of Technology, Hyderabad, during Nov. 29 to Dec. 3, 2021.

### Computers Proficiency

#### Operating System

Windows, Ubuntu (Linux).

#### Software Packages

LATEX (WinEdt, TeXstudio, TeXworks), MATLAB, Python, Microsoft Office etc.

Basic Java, C++.

### Languages

Hindi **Mother-tongue**

English/Urdu **Con conversationally fluent**

### Referees

#### **Prof. Shamshad Husain**

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Aligarh Muslim University, Aligarh  
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#### **Prof. Mohammad Kamarujjama**

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### Contact Details

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### Declaration

I declare that the information and facts stated here in the above are true and correct to best of my knowledge and belief.

Date:

Place: