# Aijaz Ahmad Malla - Résumé

#### **Contact Information**

# Dr. Aijaz Ahmad Malla

S/o: Bashir Ahmad Malla

R/o: Botingoo Sopore, Baramulla-193201

EMAIL: *ahaijaz*99@*gmail.com* Ph. No: +91 7006758573 WHATSAPP: +91 9469794549

#### **Research Interests**

• Algebraic Graph Theory

• Spectral Graph Theory

#### **Education**

2016-2020 Ph.D. in Mathematics - University of Kashmir, Srinagar.

• Thesis Title: RINGS AND THEIR ZERO DIVISOR GRAPHS.

• PhD Defense: 10-11-2020.

• Thesis Advisor: Prof. Shariefuddin Pirzada.

2011-2013 Masters in Mathematics - University of Kashmir, Hazratbal Srinagar.

**2007-2010** Bachelors of Arts- Government Degree College, Sopore.

#### **Other Achievements**

October, 2016 Qualified National Eligibility Test (JRF) for Assistant Professor- CSIR, New Delhi

November, 2016 Qualified J&K State Eligibility Test for Assistant Professor- J&K SET Agency

# M. Sc Dissertations Supervised

2020	A Study on Automorphism Groups.
2020	Simple Groups and their Applications

**2021** A Study on Graph Spectra

2022 A Study on Laplacain Spectrum of Graphs

## **Teaching Experience**

June, 2020- December, 2021: Assistant Professor (Adhoc) at Central University of Kashmir, Ganderbal.

January 2022 - May 2023: Assistant Professor at Lovely Professional University Punjab, India.

May 2023 - December 2023 : Lecturer (Adhoc) at Department of Mathematics, University of Kashmir, Hazratbal Srinagar.

June 2024 - June 2025 : Assistant Professor at Jammu and Kashmir Higher Education Department (GCET Jammu).

June 2025 - Present: Assistant Professor at Jammu and Kashmir Higher Education Department.

→ June 2025 - Present : **GOVERNMENT DEGREE COLLEGE, SOPORE.** 

**Courses Taught:** Abstract Algebra, Matrices and Linear Algebra, Graph Theory and Discrete Mathematics, Differential Equations, Mathematical Statistics, Fourier Transform, Laplace Transform, Differential Geometry, Real Analysis, Measure Theory, Probability Theory.

#### **Publications**

- 1. *Distance signless Laplacian spectrum with applications to zero divisor graphs of rings*, (Available online at Linear and Multi Linear Algebra).
- 2. *Upper dimension and bases of zero-divisor graphs of commutative rings,* AKCE International Journal of Graphs and Combinatorics.
- 3. *Annihilating-ideal graphs of commutative rings*, Asian-European Journal of Mathematics, **13,7** 2050121 (2020).
- 4. *On zero-divisor graphs of the rings*  $\mathbb{Z}_n$ , Afrika Matematika, **31** (2020), 727-737.
- 5. *On upper dimension of some graphs and their bases sets*, Discrete Mathematics Letters, **3** (2020), 37-43.
- 6. *Metric and upper dimension of zero divisor graphs associated to commutative rings*, Acta Univ. Sapientiae, Informatica, **12,1** (2020) 84–101.
- 7. *On graphs with same metric and upper dimension*, Discrete Mathematics, Algorithms and Applications Vol. **13**, No. 02, 2150015 (2021)
- 8. Zero-divisor graphs of unitary R-modules over commutative rings, AKCE International Journal of Graphs and Combinatorics, **19**(1), 69-73.
- 9. On distance signless Laplacian eigenvalues and trace norm of zero divisor graphs of commutative rings, AIMS Mathematics, **7(7)** 12635–12649.
- 10. On compressed zero divisor graphs associated to the ring of integers modulo n, Carpathian Journal of Mathematics, Vol. 15 No. 2 (2023).

#### **Conferences & Talks**

- 1. November 19, 2017, Presented a Paper in a National Conference at Department of Mathematics organized by Kashmir Mathematical Society.
- 2. Presented a Paper in Conference "Recent trends in pure and applied mathematics" on December 19, 2017 at Department of Mathematics, University of Kashmir.
- 3. Attended and presented a paper in 13th JK Science Congress from 2nd to 4th April, 2018.
- 4. Participated and presented a paper in "International Conference on Discrete Mathematics and its Applications to Network Science" from July 07-July 10-2018 at BITS Pilani, Goa.
- 5. Participated and presented a paper in the "International Conference on Mechanical Engineering" from 14th to 15th September 2018 organised by the School of Mechanical engineering, Shri Mata Vaishno Devi University Katra, Jammu.
- 6. Presented a paper in international conference on "Contemporary Issues in Engineering, Agriculture, Applied Sciences and Humanities (EAH-2019)" at NIT Srinagar on 22nd-23rd June, 2019 and received the Best Paper Presentation Award.

## **Workshops & Seminars**

- 1. Dec. 2016 Workshop on **Ramanajun Day** 22 December at Jammu Kashmir Institute of Mathematical Sciences at Srinagar, Jammu and Kashmir. .
- 2. September 2017, Attended a Workshop on **Research Methodology** at University of Kashmir, Srinagar.
- 3. July 2017, **Instructional School on Linear Algebra**, Department of Mathematics Indian Institute of Technology, Gandhinagar India.
- 4. Attended a 2-day national level workshop on "Geometrical Interpretation of Mathematical Concepts" at department of mathematics KU from 28th-29th August 2018.
- 5. Attended IST workshop on "Algebraic Graph Theory" at Department of Mathematics, Banasthali Vidyapith, Rajasthan, India, October-2019.
- 6. Workshop on "Algebra and Analysis" from 17-18 June 2019 at Central University of Kashmir.
- 7. Attended a 2-day workshop on "Graph theory, Combinatorics and Applications (GTCA)" at College of Science, Department of Mathematics, United Arab Emirates University from 09-10 October 2019.

# **Faculty Development Programmes**

- 1. **NPTEL Course** Basic Linear Algebra, Feb-Apr 2022, 8 Weeks.
- 2. **NPTEL Course** Discrete Mathematics, Jan-Apr 2023, 12 Weeks.

# **Computer Skills**

#### Computer Literacy

Symbolic Programming (Mathematica, Matlab), Typesetting Programing (Mik Tex, Latex), Web Designing, Image Designing, Presentation Program (MS Power Point, Keynote, Corel Presentation, Latex Presentation) MS Word, Adobe Photoshop, HTML.

### Referees

Name Prof. Shariefuddin Pirzada Institute University of Kashmir, Srinagar

**Position** Professor

Contact pirzadasd@kashmiruniversity.ac.in

Name Prof. S. P. Redmond

Institute Department of Mathematics and Statistics Eastern Kentucky University Richmond, KY USA

**Position** Professor

**Contact** shane.redmond@eku.edu

Name Dr. Mohammad Imran

**Institute** Department of Mathematics and Statistics, United Arab Emiratus University,

PO 15551 Al Ain UAE.

**Position** Professor

Contact m.imran658@uaeu.ac.ae