

Aijaz Ahmad Malla – Résumé

Contact Information

DR. AIJAZ AHMAD MALLA
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Research Interests

- ALGEBRAIC GRAPH THEORY
- SPECTRAL GRAPH THEORY

Education

2015-2020 Ph.D. in Mathematics - [University of Kashmir, Srinagar.](#)

- **Thesis Title: RINGS AND THEIR ZERO DIVISOR GRAPHS.**
- **PhD Defense: 10-11-2020.**
- **Thesis Advisor: Prof. S. Pirzada.**

2011-2013 Masters in Mathematics - [University of Kashmir, Hazratbal Srinagar.](#)

2007-2010 Bachelors of Arts- [Government Degree College, Sopore.](#)

Other Achievements

November, 2016 Qualified J&K State Eligibility Test for Assistant Professor- [J&K SET Agency](#)

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

Awards

January, 2017 Junior Research Fellowship (JRF).

January, 2019 Senior Research Fellowship (SRF).

Teaching Experience

June, 2020- June, 2021 Assistant Professor (contractual) at [Central University of Kashmir.](#)

Courses Taught: Abstract Algebra, Matrices and Linear Algebra, Graph Theory, Differential Equations, Mathematical Statistics, Fourier Transform, Laplace Transform, Differential Geometry, Measure 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
8. M. Aijaz and S. Pirzada, Zero-divisor graphs of unitary R-modules over commutative rings, Communicated.
9. M. Aijaz and Bilal A. Rather, On distance signless Laplacian eigenvalues and trace norm of zero divisor graphs of commutative rings, Under Review.

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 Univeristy 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.

Computer Skills

- **Applications**

LaTex. MATLAB

- **Operating Systems**

Unix/Linux, Windows.

Referees

Name Prof. S. Pirzada
Institute University of Kashmir, Srinagar
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Name Dr. 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 Emirates University, PO 15551 Al Ain UA
Position Professor
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