

Detailed CV

(As of July 2025)

Name: Bhargava K

Educational Qualification: M.Sc., NET-JRF

Designation: Assistant Professor



Address for Correspondence: Department of Mathematics, Mangalore University, Mangalagangothri, 574-199

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Research Areas: Lattice Theory, Graph Theory.

PhD: Ongoing (Under the guidance of Dr. Chandru Hegde, Department of Mathematics, Mangalore University), Tentative Title “Some Contributions to Theory of Trellises”.

Professional Teaching Experience: 13 years (UG-4, PG-9)

Details of Work experience:

- Working as Assistant Professor in Mangalore University, Dept. of Mathematics, Mangalagangothri from November 2016.
- Worked as Assistant Professor in University College, Dept. of Mathematics, Mangalore from December 2013 to October 2016.
- Worked as guest faculty in Dept. of Mathematics, Mangalore University, Mangalagangothri. (June 2012 to December 2012).
- Worked as a Lecturer in Mathematics, Dept. of Mathematics, Canara Engineering College, Benjanapadavu from June 2011 to May 2012.

Research Journal Publications:

1. R. Rajendra, P. S. Guruprasad, K. Bhargava, and P. Siva Kota Reddy, *Partitions and Labeled Trees*, Proceedings of the Jangjeon Mathematical Society **24** (2021), no. 2, 197-204. (<http://dx.doi.org/10.17777/pjms2021.24.2.197>)
2. R. Rajendra, K. Bhargava, D. Shubhalakshmi and P. Siva Kota Reddy, Peripheral Harary Index of Graphs, Palestine Journal of Mathematics **11** (2022), no. 3, 323-336.
3. K. Bhargava, N. N. Dattatreya, and R. Rajendra, *Tension on an Edge in a Graph*, Bol. Soc. Paran. Mat. **41** (2023), 1-9. (doi:10.5269/bspm.51295)
4. K. Bhargava, N. N. Dattatreya, and R. Rajendra, *On Stress of a Vertex in a Graph*, Palestine Journal of Mathematics **12** (2023), no. 3, 15-25.
5. K. Bhargava and Chandru Hegde, *Some properties of Strongly-Convex Subtrellises of a Trellis*, Palestine Journal of Mathematics **14** (2025), no. 3, 82-90.

Conference proceedings:

1. "Computation of stress and tension in some standard graphs", Proceedings of the International Conference on Discrete and Applied Mathematics 2020 (ICDAM 2020), Published by Vidya Academy of Science & Technology – Thrissur, Kerala, ISBN: 978-93-5473-020-7.
2. "A Note on Tension of Edges in Graphs", Proceedings of the International Conference on Research Trends in Mathematics 2020 (ICRTM 2020), Published by Vidya Academy of Science & Technology – Thrissur, Kerala, ISBN: 978-93-92811-09-8.

Papers/ poster presentations in Conferences / Seminars / Symposia:

International:

1. "Tension on edges and total tension of a graph" at the International Conference on Recent Advances in Interdisciplinary Mathematical Sciences (RAIMS-2019) on September 06, 2019 held at Government Science College, Nrupatunga Road, Bangalore-01.
2. "On some generalizations of defensive alliances and secure sets in graphs" at the International Conference on Algebra and Discrete Mathematics (ICADM-2020) during June 24-26, 2020 held at Madurai Kamaraj University, Madurai, Tamilnadu (Online mode).
3. "An infinite family of tension regular graphs" at the International Conference on Recent Trends in Graph Theory (ICRTGT-2020) during July 27-29, 2020 held at Karnatak University, Dharwad (Online mode).

4. “On the concept of stress of a vertex in graphs” at the International Conference on Graph Connections (ICGC-2020) during August 06-08, 2020 held at Bishop Chulaparambil Memorial College, Kottayam, Kerala (Online mode).
5. “A note on tension of edges in graphs” at the International Conference on Research Trends in Mathematics (ICRTM-2020) during August 25-26, 2020 organized by Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai (Online Mode).
6. “Computation of stress and tension in some standard graphs” at the International Conference on Discrete and Applied Mathematics (ICDAM-2020) during September 18-19, 2020 organized by the Centre for Studies in Discrete Mathematics (CSDM), Vidya Academy of Science and Technology, Thrissur, Kerala in association with Kerala Mathematical Association (KMA) (Online Mode).
7. “A Note on Strongly-Convex Subtrellises of a Trellis” at the International Conference on Discrete Mathematics 2024 (20th Annual Conference of Academy of Discrete Mathematics and Applications -ADMA-ICDM-2024) during June 7-10, 2024 organized by the Department of Mathematics, Savitribai Phule Pune University, Pune and Department of Mathematics, School of Computational Sciences, COEP Technological University, Pune.
8. “On Some Ideals in WALs” at the International Conference on Discrete Mathematics 2025 (21st Annual Conference of Academy of Discrete Mathematics and Applications -ADMA-ICDM-2025) during June 7-10, 2025 organized by the Department of Mathematics, Cochin University of Science and Technology, Cochin, Kerala.
9. “On Weakly-Perfect Trellises” at the International Conference on Contemporary Applied Mathematics and Statistics: Trends, Innovations and Applications-2025 (IC-CAMSTIA) during July 25-26, 2025 organized by the Department of Mathematics, St. Joseph’s College of Engineering, Chennai (Online Mode).

National:

1. “Tension-Regular Graphs” at the KSTA sponsored National conference on Mathematics and its Applications (NCM-2019) during November 7-8, 2019 held at Karnatak University, Dharwad. (Poster presentation)
2. “Tension on edges in some standard graphs” at the National level conference on Industrial Applications of Mathematics and its Developments (IAMD-2020) during March 13-14, 2020 held at Kuvempu University, Shimoga.
3. “Some Special Types of Ideals in Weakly-Associative Lattices” at the National level conference on Graph Theory and Allied Topics (NCGTAT-2024) during October 23-24, 2024 organized by the Department of Mathematics, University of Mysore, Manasagangotri, Mysuru, Karnataka.

Invited talks delivered:

1. Participated as a Resource Person at the workshop on “NET and KSET” conducted to M.Sc. Maths students on 16-10-2015 at Department of Mathematics, Center for P.G. Studies and Research, St. Philomena College, Puttur.
2. Delivered invited series of lectures on topics Algebra and Linear Algebra in the Four days workshop on “NET/SLET/GATE Examinations in Mathematical Sciences (March 22-25, 2016)” on 24-3-2016 and 25-3-2016, organized by Department of Studies in Mathematics, VSK University, Ballari.
3. Participated as a Resource Person at the one workshop for M.Sc. Mathematics on the topic “Preparations for Competitive Examinations in Mathematical Sciences” on 04/03/2018 at Dr. G. Shankar Government Women's First Grade College and P.G. Centre, Ajjarakadu, Udupi – 576101.
4. Delivered a “Special Lecture and Coaching for CSIR - NET/SLET Examination” to M.Sc. Mathematics students at Kuvempu University, Shankaraghatta, Shimoga on 02-05-2018.
5. Participated as a resource person at the 4 day workshop for the preparation of NET/KSET/GATE examinations in mathematics for P.G. students and research scholars (during 8-11 April, 2019) at VSK University, Ballari.

Awards / Fellowship / Recognition:

- Second rank in B.Sc. (2009 – Mangalore University)
- First rank in M.Sc. Mathematics (2011 – Mangalore University)
- CSIR-UGC NET JRF qualified (Dec 2012 – AIR 76).

FDPs/ Professional Development programs (PDPs)/ Refresher Course/ Orientation Course/ Faculty Induction program (FIPs)/ Workshops/ Seminars/ Conferences attended:

1. Attended the UGC Sponsored 95th Orientation Programme from 27-10-2014 to 22-11-2014 held at Academic Staff College, University of Rajasthan, Jaipur.
2. Attended the Refresher Course “University and PG College MSc Teachers Training Program in Mathematics” at Talent Development Centre, IISc, Challakere Campus at Kudapura, Chitradurga - 577536 from 7th June 2018 to 27th June 2018.
3. Attended the “Training Programme in Mathematics-2008” held at Department of Mathematics, Pondicherry University, sponsored by DST, held during 9-6-2008 to 28-6-2008 (18days).

4. Attended the “Summer Programme in Mathematics (SPIM)” held at Harish-Chandra Research Institute, Allahabad from 21-6-2010 to 10-7-2010 (18 days).
5. Attended the “Instructional Workshop on Logic and Set Theory” at Kerala School of Mathematics, Kozhikode, Kerala - 673571 held during 18-2-2013 to 1-3-2013 (12days).
6. Participated in the Instructional School for Teachers on “Analysis and Differential Equations” organized at the TIFR - Centre For Applicable Mathematics, Bangalore - 560065 by National Centre for Mathematics, during 7-19 December, 2015 (12 days).
7. Participated in the Instructional School for Teachers on “Topology” held at IIT Bombay, during the period 9-21 May, 2016 (12 days) funded by National Centre for Mathematics.
8. Participated in the Instructional School for Teachers on “Analysis and PDE” held at IISc Bangalore, during the period 6-18 May, 2019 (12 days) funded by National Centre for Mathematics.
9. Participated in the Online Workshop on Mathematical Analysis (MATANA 2020) organized by PG & Research Department of Mathematics, Loyola College, Chennai from 8 to 13 June 2020.
10. Participated in the Online International Faculty Development Programme on “Avant-garde Trends in Mathematics” organized by the Department of Mathematics, Bannari Amman Institute of Technology, Sathyamangalam from 17 to 23 June 2020.
11. Participated in the Online Faculty Development Programme on “Communication Skills and Use of ICT Tools for Effective Teaching, Learning and Evaluation” organized by IQAC, Government First Grade College & PG Centre, Dharwad in association with KGCTA, KUD Zone, from 22 to 28 June 2020.
12. Participated in the Online Pedagogical Training for Teachers on “Tools for Online Teaching, Learning and Evaluation” organized by School of Mathematical Sciences, Swamy Ramanand Teerth Marathwada University, Nanded from 1st to 6th July 2020.
13. Participated in 10 day National Level Online Multi-Disciplinary Short Term Course on “MOOCs, Creation of E-Content Development and OERs” organized by IQAC, Government First Grade College, K R Puram Bengaluru from 5 to 14 July, 2020.
14. Attended Teachers Enrichment Program on Group Theory, Linear Algebra and Enumerative Combinatorics during 5th Aug 2024 to 10th Aug 2024, organized by the Department of Mathematics, Mangalore University.

Membership of Professional Bodies: Life Member of ADMA (Academy of Discrete Mathematics and Applications)
