



Dr. Mukta Garg

Position: Assistant Professor

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Education:

Ph.D. in Mathematics from University of Delhi, M.Phil. in Mathematics from University of Delhi, M.Sc. (Mathematics) and B.Sc. (H) Mathematics from University of Delhi

Research interests:

Dynamical Systems, Ergodic Theory, Functional Analysis, Group Actions, Measure Theory, Topology, Symbolic Dynamics, C^* -Algebras

Publications:

- ❖ Mukta Garg and Ruchi Das, Continuous semi-flows with the almost average shadowing property, *Chaos Solitons and Fractals* 105 (2017), 1-7, (Publisher: Elsevier, SCI Journal, 2017 Impact Factor: 2.213).
- ❖ Mukta Garg and Ruchi Das, When a minimal map is totally transitive on a G -space, *Journal of Dynamical and Control Systems* 23 (2017), 499-508, (Publisher: Springer, SCIE Journal, 2016 Impact Factor: 0.693).
- ❖ Ruchi Das and Mukta Garg, Average chain transitivity and the almost average shadowing property, *Communications of the Korean Mathematical Society* 32 (2017), 201-214, (Publisher: Korean Mathematical Society, ESCI Journal).
- ❖ Mukta Garg and Ruchi Das, Relations of the almost average shadowing property with ergodicity and proximality, *Chaos Solitons and Fractals* 91 (2016), 430-433, (Publisher: Elsevier, SCI Journal, 2017 Impact Factor: 2.213).
- ❖ Mukta Garg and Ruchi Das, Exploring stronger forms of transitivity on G -spaces, *Matematički Vesnik* 69 (2017), 164-175, (Publisher: Mathematical Society of Serbia, ESCI Journal).
- ❖ Mukta Garg and Ruchi Das, Transitivity of maps on G -spaces, *Advances in Pure and Applied Mathematics* 9 (2018), 75-83, (Publisher: De Gruyter, SCOPUS Journal).

Awards/Prizes:

1) Academic:

- ❖ Awarded with “**IMS prize**” for the best research paper presentation in the competition held at national level in the “82nd Annual Conference of the Indian Mathematical Society” during December 27-30, 2016.
- ❖ Secured **first position** in M.Phil./Ph.D. entrance examinations of University of Delhi held in 2011 and second position in M.Phil./Ph.D. course-work held at University of Delhi in 2012.
- ❖ Awarded with “**Prof. M. C. Puri Memorial Gold Medal**” for being the best candidate in the University of Delhi in M. Sc. Mathematics examinations held in 2011.
- ❖ Awarded with “**Prof. Ram Behari Medal**” for being the best candidate in the University of Delhi in M. A. and M. Sc. Mathematics examinations held in 2011.
- ❖ Awarded with “**J. N. Mitra Memorial Gold Medal**” for being the best candidate in the University of Delhi in M. A./M. Sc. Mathematics, Statistics and M. Sc. Physics examinations taken together held in 2011.
- ❖ Awarded with “**Hans Raj College Gold Medal**” for standing first in the University of Delhi in M. Sc. (final) Mathematics examinations held in April, 2011.
- ❖ Secured **first position** in the University of Delhi in M. Sc. (Previous) Mathematics examinations held in 2010.
- ❖ Secured **first position** in the Hans Raj College in B. Sc. (Hons.) Mathematics examinations held in April, 2009.
- ❖ Awarded with “**Sh. Ladha Ram Delory Memorial Prize**” and “**Sh. Krishnawanti Daulat Ram Chadha Prize**” for academic excellence in the University examinations held in April, 2008 on the occasion of 60 years of Excellence of Hans Raj College, University of Delhi.
- ❖ Secured **first position** in the Hans Raj College and second position in the University of Delhi in B. Sc. (Hons.) Mathematics Second year examinations held in April, 2008.
- ❖ Awarded with “**Sh. Ladha Ram Delory Memorial Prize**” and “**Sh. Krishnawanti Daulat Ram Chadha Prize**” for academic excellence in the University examinations held in April, 2007.
- ❖ Secured **first position** in the Hans Raj College in B. Sc. (Hons.) Mathematics First year examinations held in April, 2007.

2) Extra Curricular Activities:

- ❖ Secured second position in “The Perfect Programmer B/C++ Multifaceted Inter School Bonanza 2005-2006” held on October 26, 2005.

- ❖ Awarded with “Children’s Excellence Scholarship of Rs 9000” in Class Tenth for securing well in Children’s Excellence Scholarship Test organized by Samarth Shiksha Samiti on November 9, 2003.
- ❖ Awarded with a “Shield Prize” for securing second position in the Class Ninth examinations held at Saraswati Bal Mandir, Sr. Sec. School during the session 2002-03.
- ❖ Awarded with a “Shield Prize” for performing best “Yoga” by Samarth Shiksha Samiti in 2002.
- ❖ Secured second position in the “Inter School Group Song Competition” organized by Samarth Shiksha Samiti held in September, 2000.

Fellowships and Memberships:

- ❖ University Grant Commission-Senior Research Fellowship from October 16, 2016 to October 27, 2017.
- ❖ University Grant Commission-Junior Research Fellowship from October 16, 2014 to October 15, 2016.
- ❖ CSIR-UGC Fellowship for M.Phil. from September 5, 2011 to June 30, 2013.
- ❖ Qualified CSIR-UGC NET in Mathematical Sciences on June 19, 2011.
- ❖ Member of “The Indian Science Congress Association” since July, 2017.

Projects Undertaken:

- ❖ Worked on a project in “Gyanodaya-IV” on “Traffic Comparison of Some of Indian Cities” as a mentor of fifteen students during working in Miranda House, University of Delhi during March 11-19, 2014. (This project dealt with the traffic problems found in some selected cities-Kanpur, Varanasi, Bhopal, Ahmedabad, Surat of India visited by us in GYANODAYA IV. It involved to figure out the basic issues related to traffic patterns in different areas of these cities on which a comparative analysis was done).
- ❖ Actively participated as one of the facilitators in the “Value Education Program” of Ramakrishna Mission, New Delhi for around six months in 2013 (in which we used to go to different schools of C.B.S.E. in and around Delhi, where we gave presentations and conducted facilitation for the same).
- ❖ Volunteered in the International Conference “The Legacy of Srinivasa Ramanujan” held at University of Delhi during December 17-22, 2012.

Work Experience:

- ❖ **One and a half years:** As an Assistant Professor (ad hoc from July 24, 2013 to Aug 1, 2014 and from February 5, 2018 to July 23, 2018) at University of Delhi, Delhi.

- ❖ **One and a half years:** As a Tutorial Teacher of M.A/M.Sc. Mathematics of Topology I and Topology II from January, 2016 to May, 2017 at “Department of Mathematics”, University of Delhi, Delhi.
- ❖ **One year:** As a Visiting Assistant Professor (from Aug 6, 2014 to March 31, 2015 and from January 4, 2018 to April 20, 2018) at University of Delhi, Delhi.

Some of Workshops and Conferences Attended:

- ❖ Participated in the Advanced Instructional School on “Ergodic Theory and Dynamical Systems” held at Department of Mathematics, IIT Delhi during December 4-23, 2017.
- ❖ Presented a poster on “On Dynamics of Maps Possessing the Almost Average Shadowing Property” in the Conference “Current Trends in Dynamical Systems and the Mathematical Legacy of Rufus Bowen” held at the University of British Columbia, Vancouver, Canada during July 30-Aug 4, 2017.
- ❖ Presented a paper on “Exploring the Almost Average Shadowing Property in One Parameter Flows” in the “82nd Annual Conference of the Indian Mathematical Society” held at West Bengal, India during December 27-30, 2016.
- ❖ Presented a poster on “Applications of Regular Periodic Decomposition on G-spaces” in the “Annual Conference of Indian Women and Mathematics 2016” held at the School of Mathematics and Statistics, University of Hyderabad, India during June 29, 30 and July 1, 2016.
- ❖ Participated in the “14th Discussion Meeting on Harmonic Analysis” held at Department of Mathematics, University of Delhi, Delhi, India during December 10-12, 2015.
- ❖ Participated in the “International Workshop on Operator Spaces” held at Department of Mathematics, University of Delhi, Delhi, India during December 7-9, 2015.
- ❖ Delivered a talk on “Topological Transitivity for Maps on Topological Transformation Groups” in “South Asian Mathematics Research Scholars Meet” held at Department of Mathematics, South Asian University, Delhi, India during May 8-9, 2015.
- ❖ Participated in a Training Course on “Introduction to Matlab” held at Delhi University Computer Centre, University of Delhi, Delhi, India during September 1-5, 2014.
- ❖ Participated in the Workshop on “Building Mathematical Ability” held at C.P.D.H.E, University of Delhi, Delhi, India during July 15-17, 2013.
- ❖ Participated in the International Conference “The Legacy of Srinivasa Ramanujan” as a volunteer held at University of Delhi, Delhi, India during December 17-22, 2012.