

CONTACT INFORMATION Department of Mathematics
Presidency University
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PERSONAL INFORMATION Date of Birth: 29.04.1980
Gender: Female
Nationality: Indian

EDUCATION

B.Sc (1999-2002)

- Subjects credited: Mathematics, Physics, Chemistry
- College: Lady Brabourne College, Kolkata, India
- University: University of Calcutta, India.

M.Sc (2002-2004)

- Subject: Pure Mathematics
- University: University of Calcutta, India.

Ph.D. (2006- 2010)

- Institute: Department of Pure Mathematics, University of Calcutta, India
- Area of Specialization: General Topology

RESEARCH INTERESTS

General Topology, Rings of Continuous Functions.

TEACHING AND RESEARCH EXPERIENCE

- Tarak sudha Fellow (December 2004 to February 2006) in Bethune College, Kolkata, India
- Junior Research Fellow (March 2006 to February 2008) in the Department of Pure Mathematics, University of Calcutta, India
- Senior Research Fellow (March 2008 to 2nd September 2008) in the Department of Pure Mathematics, University of Calcutta, India
- Assistant Professor (3rd September 2008 to 8th November 2016) in the Department of Mathematics, Seth Anadram Jaipuria College, Kolkata, India
- Assistant Professor (9th November 2016 to present) in the Department of Mathematics, Presidency University, Kolkata, India

AWARDS AND FELLOWSHIPS

- National Scholarship based on performance in B. Sc Math. (Hons.) from Government of West Bengal, India in 2002.
- 6th March 2004-28th February, 2006: Tarak Sudha Fellowship, Bethune College, Kolkata, India.
- Junior Research Fellowship, Council of Scientific and Industrial Research (CSIR), Govt. of India in 2006.
- Senior Research Fellowship, Council of Scientific and Industrial Research (CSIR), Govt. of India in 2008.

PUBLICATIONS

- Sobhakar Ganguly, **Ritu Sen**, *γ -convergence of nets and filters*, Rev. Acad. Canaria Cienc. 18 (1-2), 23–31, 2007.
- Manabendra Nath Mukherjee, Bishwambhar Roy, **Ritu Sen**, *On extensions of topological spaces in terms of ideals*, Topology Appl. 154 (18), 3167–3172, 2007.
- Sobhakar Ganguly, **Ritu Sen**, *Ascoli's theorem in almost quiet quasi-uniform space*, Acta Math. Univ. Comenian. (N.S.) 76 (2), 279–286, 2007.
- Sobhakar Ganguly, **Ritu Sen**, *Different types of continuous-like functions and topologies on function spaces*, Stud. Cercet. Stiint. Ser. Mat. Univ. Bacău 17, 81–104, 2007.
- Sobhakar Ganguly, Krishnendu Dutta, **Ritu Sen**, *A note on quasi-uniformity and quasi-uniform convergence on function space*, Carpathian J. Math. 24 (1), 46–55, 2008.
- Sobhakar Ganguly, **Ritu Sen**, *A notion of δ -completion for almost quiet quasi-uniform spaces*, Bull. Calcutta Math. Soc. 100 (1), 37–46, 2008.
- Sobhakar Ganguly, Sandip Jana, **Ritu Sen**, *A new hyperspace topology and the study of the function space θ^* -LC(X, Y)*, Mat. Vesnik 61 (3), 181–193, 2009.
- Sobhakar Ganguly, **Ritu Sen**, *Characterizations of quiet quasi-uniformity and almost quiet quasi-uniformity in terms of covers*, An. Stiint. Univ. Al. I. Cuza Iași. Mat. (N.S.) 56 (1), 169–175, 2010.
- **Ritu Sen**, *γ - (α, β) -semi R_0 and γ - (α, β) -semi R_1 spaces*, J. Adv. Res. Pure Math. 2 (4), 39–47, 2010.
- Sobhakar Ganguly, **Ritu Sen**, *The γ -open open topology for function spaces*, Math. Morav. 14 (1), 61–67, 2010.
- Bishwambhar Roy, **Ritu Sen**, *A new type of sets between closed sets and $g\mu$ -closed sets*, Ann. Univ. Sci. Budapest. Eötvös Sect. Math. 54, 103–109, 2011.
- Bishwambhar Roy, **Ritu Sen**, *Unified theory for some separation axioms*, Math. Pannon. 22 (2), 227–235, 2011.

- Bishwambhar Roy, **Ritu Sen**, *On maximal μ -open and minimal μ -closed sets via generalized topolog*, Acta Math. Hungar. 136 (4), 233–239, 2012.
- Bishwambhar Roy, **Ritu Sen**, *On unification of some weak separation properties*, Ann. Math. Inform. 40, 93–103, 2012.
- Bishwambhar Roy, **Ritu Sen**, *A unified theory for certain weak forms of open sets and their variant forms*, Kyungpook Math. J. 52 (4), 405–412, 2012.
- Bishwambhar Roy, **Ritu Sen**, Takashi Noiri, *Separation axioms on topological spaces—a unified version*, Eur. J. Pure Appl. Math. 6 (1), 44–52, 2013.
- Bishwambhar Roy, **Ritu Sen**, *Applications of maximal μ -open sets in generalized topology and quasi topology*, Discuss. Math. Gen. Algebra Appl. 33 (2), 129–135, 2013.
- **Ritu Sen**, *Local connectedness in hyperspace topology*, An. Univ. Oradea Fasc. Mat. 20 (1), 117–123, 2013.
- Bishwambhar Roy, **Ritu Sen**, *On unification of rarely continuous functions*, Facta Univ. Ser. Math. Inform. 29 (3), 261–270, 2014.
- **Ritu Sen**, *On first countability of a new hyperspace topology*, An. Univ. Vest Timiș. Ser. Mat.-Inform. 52 (2), 225–230, 2014.
- **Ritu Sen**, Bishwambhar Roy, *On multifunction space $\theta L(X)$* , Mathematica 56 (79) (2), 175–181, 2014.
- Bishwambhar Roy, **Ritu Sen**, *On a type of decomposition of continuity*, Afr. Mat. 26 (1-2), 153–158, 2015.
- Bishwambhar Roy, **Ritu Sen**, *On decomposition of weak continuity*, Creat. Math. Inform. 24 (1), 83–88, 2015.
- Bishwambhar Roy, **Ritu Sen**, *On a class of sets between μ -closed sets and μg -closed sets*, Journal of Taibah University for Sciences 11 (2), 268–273, 2017.
- Bishwambhar Roy, **Ritu Sen**, *Generalized semi-open and pre-semiopen sets via ideals*, Trans. A. Razmadze Math. Inst. 172 (1), 95–100, 2018
- **Ritu Sen**, *Selection properties of quasi-uniform spaces using ideals*, Sci. Stud. Res. Ser. Math. Inform. 29 (2), 87–96, 2019.
- **Ritu Sen**, *\mathcal{I}^* - μ -open sets in generalized topological spaces*, General Mathematics 27 (2), 35–42, 2019.
- **Ritu Sen**, *Generalized semi-open sets via ideals in topological space*, Creat. Math. Inform. 29 (2), 231–236, 2020.
- **Ritu Sen**, *On some properties of the hyperspace $\theta(X)$ and the study of the space $\downarrow C(X)$* , Jour. Linear and Topological Algebra. 9 (03), 185–192, 2020.
- **Ritu Sen**, *On generalized $\gamma\mu$ -closed sets and related continuity*, Acta Univ. Sapientiae Math. 13 (2), 483–493, 2021.

- **Ritu Sen**, *On some variations of \mathcal{I} -Menger spaces*, An. Univ. Oradea Fasc. Mat. 28 (1), 5–14, 2021.
- **Ritu Sen**, *On some weaker forms of Hurewicz property in bitopological spaces*, Sci. Stud. Res. Ser. Math. Inform. 31 (1), 119–130, 2021.
- **Ritu Sen**, Alejandro Ramírez-Páramo, *On $c_{\Delta}(\Lambda)$ -covers and $\Delta\gamma$ -sets*, Topology Appl. 307, Paper No. 107940, 13 pp, 2022.
- Bishwambhar Roy, **Ritu Sen**, *On ω^* -open sets and decomposition of continuity*, Topol. Algebra Appl. 10:154–160, 2022.
- **Ritu Sen**, *On some convergence properties of hyperspaces with hit-and-miss topology*, Facta Universitatis, 37 (5), 1021-1035, 2022.
- **Ritu Sen**, *Unification of relative versions of some star-covering properties*, An. Stiint. Univ. Al. I. Cuza Iasi. Mat. (N.S.), 69 (1), 77-93, 2023.
- Lj. D. R. Kocinac, **Ritu Sen**, *On the Reznichenko and Pytkeev properties in Hyperspaces*, Topology and its Applications, 340, Paper No. 108711, 2023.
- **Ritu Sen**, *Variations of separability and supertightness of hyperspaces*, Facta Universitatis 39 (2), 247-263, 2024.
- **Ritu Sen**, Rudra Pratap Saha, *On an over-ring $C(X)_{\Delta}$* , accepted in Facta Universitatis.

ACTED AS A
REFEREE IN
JOURNALS

- Applied General Topology
- Boletín de la Sociedad Matemática Mexicana
- Poincare Journal of Analysis and Applications
- Filomat
- Math Slovaca