UNIVERSITY OF CALCUTTA

FACULTY ACADEMIC PROFILE / CV

1. **Full name of the faculty member :** Dr. Atasi Deb Ray
2. **Designation :** Associate Professor, Department of Pure Mathematics
3. **Specialization :** Topology, Fuzzy Topology and Rings of continuous functions.
4. **Passport size photograph :**

5. **Contact information :**
    Department of Pure Mathematics,University of Calcutta,
    35, Ballygunge Circular Road,Kolkata – 700019.
    e-mail : adrpm@caluniv.ac.in

6. **Academic qualifications :**

College/University from which the degree was obtained	Abbreviation of the degree
St. Xavier's College, University of Calcutta	B. Sc. (Mathematics Hons.)
University of Calcutta	M. Sc. (Pure Mathematics)
University of Calcutta	Ph. D. (Pure Mathematics)

7. **Positions held/holding :**
    (i)   Teaching Assistant, Florida Atlantic University, Florida, USA.
    (ii)   Teaching Assistant, University of Miami, Florida, USA.
    (iii)   Faculty, National Power Training Institute (ER), Durgapur, West Bengal.

(iv)   Assistant Professor, Department of Mathematics, University of North Bengal.

(v)   Assistant Professor, Department of Mathematics, West Bengal State University.

(vi)   Associate Professor, Department of Pure Mathematics, University of Calcutta.

8. Research interests :
- *Topology and Topological Algebraic structures*
- *Rings of continuous functions*
- *Fuzzy Topology*

9. Research guidance :
- Number of researchers awarded Ph.D degrees : 03 + 01 (submitted)
- Number of researchers pursuing Ph.D : 06.

10. Projects :   None

11. Selected list of publications (2016 -)
- Intrinsic characterizations of c-realcompact spaces, Appl. Gen. Top., accepted (2021) (with Sudip Kumar Acharyya and Rakesh Bharati).
- Some Algebraic and topological properties of rings of measurable functions, *Houston J. Math.*, accepted (2021) (with Soumyadip Acharyya, Sudip Kumar Acharyya and Rakesh Bharati).
- On structure spaces of the ring $B_1(X)$, *Filomat*, accepted (2021) (with Atanu Mondal).
- Ordered field valued continuous functions with countable range, *Bull. of Iranian Math. Soc.*, pub. online (2021), DOI : 10.1007/641980.021.00540.8 (with Sudip Kumar Acharyya and Pratip Nandi).
- On some properties of Lebesgue fuzzy metric spaces, *Sahand Comm. in Math. Anal.*, 18(1)(2021), 1-14. DOI : 10.22130/scma.2020.120854.743 (with Sugato Adhya).
- On Lebesgue property for fuzzy metric spaces, *TWMS J. App. and Engg. Math.*, 11(2)(2021), 552-560 (with Sugato Adhya).
- Rings and subrings of continuous functions with countable range, *Questiones Mathematicae, pub. online* (2020), DOI : 10.2989/16073606.2020.1752322 (with Sudip Kumar Acharyya and Rakesh Bharati).
- Product of generalized quasi-uniform spaces, *J. of Adv. Top.*, 10(1)(2019), 62-67 (with Sugato Adhya).

- Generalized fuzzy cluster sets of functions and fuzzy multifunctions, *Bull. Cal. Math. Soc.* 111(5)(2019), 399-412 (with Mahadeb Sahu).
- Generalized fuzzy continuous functions on δ- and θ-modifications of Generalized bi-fuzzy topological spaces, *J. Fuzzy Math.*, 27(3) (2019), 723-736 (with Mahadeb Sahu).
- Ideals in $B_1(X)$ and Residue class rings of $B_1(X)$ modulo an ideal, *Appl. Gen. Top.* 20(2)(2019), 379-393 (with Atanu Mondal).
- On rings of Baire one functions, *Applied General Topology,* 20(1)(2019), 237-249 (with Atanu Mondal).
- On g_{ij}-closedness of bi-GTS, *Boletim. Soc. Paran. Mat., 35(2)(2017),* 59-67 (with Rakesh Bhowmik).
- Generalized quasi-uniformity in terms of covers, *Boletim. Soc. Paran. Mat., 35(3)(2017) , 55-65* (with M. N. Mukherjee and S. Sinha).
- μ-paracompact and $g_μ$-paracompact generalized topological spaces, *Hacet. J. Math. Stat.* 45 (2016), no. 2, 447–453 (with Rakesh Bhowmick).
- Further on fuzzy pseudo near compactness and ps-ro fuzzy continuous functions. *Theory Appl. Math. Comput. Sci.* 6 (2016), no. 2, 96–102 (with Pankaj Chettri).
- Concerning generalized quasimetric and quasi-uniformity for topological spaces. *Topology Proc.* 47 (2016), 261–271 (with M. N. Mukherjee and S. Sinha)**.**

12. **Other notable activities :**

Reviewer of Mathematical Reviews (USA) and Zentralblatt Math (Germany).

(updated on 14.09.2021 by Dr. Atasi Deb Ray)