



1. Name : DR. SANJAY MALLICK

2. (i) Address for Communication:

Department of Mathematics, Cooch Behar Panchanan Barma University,
Vivekananda Street, Cooch Behar, West Bengal, India 736101.

ii) Email: sanjay.mallick1986@gmail.com

iii) Phone (Mobile): 9230213191.

3. Date of Birth : 10.12.1986.

4. Educational Qualification: M.Sc., B.Ed., Ph.D.

5. (i) Name of the Ph. D. supervisor: Prof. (Dr.) Abhijit Banerjee, Professor, Department
of Mathematics, University of kalyani.

(ii) The Title of the Thesis: “SOME INVESTIGATIONS ON THE NEW
PERSPECTIVE OF UNIQUENESS THEORY OF ENTIRE
AND MEROMORPHIC FUNCTIONS”

6. Teaching and research experience:

Employer	Position held	Place of work	Duration	Nature of work
UGC, Govt. of India	JRF	University of Kalyani	08.01.2014 – 07.01.2016	Research work for Ph.D.
UGC, Govt. of India	SRF	University of Kalyani	08.01.2016 – 25.04.2017	Research work for Ph.D.
Cooch Behar Panchanan Barma University, Cooch Behar, West Bengal	Assistant Professor	Department of Mathematics, Cooch Behar Panchanan Barma University, Cooch Behar, PIN – 736 101 West Bengal	30.10.2017 – Till date	Teaching Mathematics at M.Sc. level and guidance for Ph.D.

7. Fields of Specialization under the Subject/Discipline :

Nevanlinna Theory.

8 . Research, Publications and Academic Contributions:

A. Published papers in journals:

Sl. No	Title with page number	Journal Name	ISBN/ISSN
1.	Uniqueness of meromorphic functions sharing two sets having deficient values, Vol. 41(2), pp. 168 - 178, 2014	Matematychni Studii	1027 4634
2.	Uniqueness of meromorphic functions sharing two finite sets in \mathbb{C} with finite weight II, Vol. 64(3), pp. 433-450, 2015	Rendiconti del Circolo Matematico di Palermo	0009-725X
3.	On the bi unique range sets for derivatives of meromorphic functions, Vol. 10, pp. 95-111, 2015	Surveys in Mathematics and its Applications	1842-6298 (electronic), 1843-7265 (print)
4.	Bruck Conjecture- A different perspective, Vol. 65(1), pp. 71-86, 2016	Commun. Fac. Sci. Univ. Ank. Ser. A1 Math. Stat	1303-5991
5.	Bi Unique range sets -A further study, Vol. 35(3), pp. 39-53, 2017	Boletim da Sociedade Paranaense de Matemática	0037-8712
6.	Bi Unique range sets with smallest cardinalities for the derivatives of meromorphic functions, Vol. 9(2), pp. 1–13, 2016	Tbilisi Mathematical Journal	1512-0139
7.	On the characterisations of a new class of strong uniqueness polynomials generating unique range sets, Vol. 17(1), pp.19-45, 2017	Computational Methods and Function Theory	1617-9447
8.	Uniqueness properties of meromorphic functions in the light of three shared sets. (To appear)	Mathematica Slovaca	0139-9918
9.	Further investigations on Fujimoto types strong uniqueness polynomials. (To appear)	Filomat	0354-5180

b) Acted as Referee for the following journals:

1. International Journal of Mathematics (2 times).

c) Conference/Seminar/Workshop paper presentation:

Sl. No.	Title of the Paper presented	Title of Conference / Seminar	Organised by	Whether International / National/State/Regional/ University/College level
1.	Uniqueness of meromorphic functions sharing two finite sets in \mathbb{C} with finite weight II	National Seminar on Recent Advances in Mathematics and Its Applications (March 12, 2015)	Department of Pure Mathematics, University of Calcutta	National
2.	Bi Unique range sets -A further study	National Conference on Emerging Trends in Mathematics and Mathematical Sciences (17-19 December, 2015)	Calcutta Mathematical Society	National
3.	A new class of unique and reduced unique range set	81 st Annual Conference of The Indian Mathematical Society (December 27-30, 2015.)	VNIT, Nagpur	National
4.	Bi Unique range sets with smallest cardinalities for the derivatives of meromorphic functions	National Seminar on Recent Developments in Mathematics and Its Applications (January 21-22, 2016)	Department of Mathematics, University of Kalyani	National
5.	On the generalizations of bi-unique range sets for meromorphic	International Conference on	Department of Mathematics,	Interational

	functions	Recent Trends in Mathematical Sciences and Applications (February 9-11, 2016)	University of Burdwan	
6.	Uniqueness properties of meromorphic functions in the light of three shared sets	National Seminar on Analysis and Applications: Celebrating 100 Years of The General Theory of Relativity(March 10-11, 2016)	Department of Mathematics, West Bengal State University	National
7.	Uniqueness of meromorphic functions sharing two sets – A different approach	International Seminar on Topology, Analysis and Algebra (February 11-12, 2017)	Department of Applied Mathematics, University of North Bengal	International

d) Training courses:

Sl. No	Name of the course	Duration	Organized/Sponsored by
1.	Workshop on Differential Geometry	6 days (04.08.2014 – 09.08.2014)	Savitribai Phule Pune University in collaboration with TIFR, National Centre for Mathematics, Mumbai

9. Honours and Awards received:

i) Qualified for JRF in the CSIR/UGC NET in 2012 and received the Fellowship from UGC, New Delhi as JRF and SRF.

10. Member of the Learned Societies:

Life Member of Indian Mathematical Society

11. Brief summary of previous and current research work:

During the course of my doctoral studies, me with my supervisor mainly concentrated on the set sharing problems of Entire and Meromorphic functions to answer the so called “Gross Question” improving the existing results. Simultaneously, we investigated the problems of “Brück Conjecture” extending and generalizing the existing results. On the way of answering “Gross Question” we have found significant results in the direction of two set sharing with aid of Bi-Unique range sets. Also we have introduced the notion of Bi-Unique range sets for the derivatives of the meromorphic functions and obtained results with the smallest cardinalities ever. Furthermore, in three set sharing problem introducing a new idea in the formation of one of the range sets we have obtained a better result than the existing ones. Most likely, we have been able to produce an example as well as a theorem which makes a gate way to the non-critically injective case of the notion of unique range sets (URS) and side by side we proved other results which improve, generalize all the results in the direction of strong uniqueness polynomials. Apropos of the Brück Conjecture we have proved results to get the most generalization of the same.

Currently, I am focusing on solving one of the most awaited and fundamental problems of the uniqueness theory; i.e., the smallest cardinality problem of URS and characterization of URS for non-critically injective case or to develop a general theory which brings all the variants of URS under a single umbrella. I am also interested to deal with the problems of shift, difference operator and the problems of Normal family.