BIO DATA



1. Name : Dr. Tarun Kumar Garai

2. DOB: 27.02.1975

3. Sex: Male

4. Nationality: Indian

5. Address for correspondence: Department of Mathematics,

Bolpur College, Bolpur, West-Bengal, Pin-731204, INDIA

E-mail: tg70841@gmail.com

6. Present Designation: Associate Professor, Department of

Mathematics, Bolpur College,

7. Academic Qualification: Ph.D. in Mathematics

8. Ph.D.:

(a) Title of the thesis	Generalized Continuity, Generalized Derivative and its application to Integration Theory.
(b) University/Institute	Dept. of Mathematics, Siksha Bhavana, Visva-Bharati,
	Santiniketan
(c) Year of Obtaining PhD	2022
degree	
(d) Area of research Work	Real Analysis
(e) PhD Course Work	Done

9. (a) Work experience:

Post Held	Name of the employer	Nature of Assignment	Period	Exp. In Years	Remark
1. Associate Prof. of Mathematics	Bolpur College,	Permanent	From 27.05.2019 till date	3 year 2 months	Present service
2. Assistant Prof. of Mathematics	Bolpur College	Permanent	From 25.02.2015 to 26.05.2019	4 year 3 months	Present service
3. Assistant Prof. of Mathematics	Raghunathpur college, Raghunathpur, Purulia	Permanent	From 27.05.2005 To 24.02.2015	9 yrs 9 months.	Past service
4. Assistant Teacher of Mathematics	Bipratikuri High School, Birbhum	Permanent	From 30.12.2002 to 26.05.2005	2 year 5 months (approx.)	Past service

9. (b) Post-Graduate Teaching Experience:

- (1) Workied as a guest faculty of Mathematics at Sidho-Kanho-Birsha University, Purulia from 2011 to 2015
- (2) Taken classes of M.Sc. Mathematics students at DDE- University of Burdwan since 2011.
- (3) Taken classes of M.Sc. Mathematics students at Netaji Open University (Bolpur College Study center) several times.

10. Research Projects Completed:

Sl. No.	Title	Agency	Period	Grant/ Amount mobilized (Rs. lakh)
1.	Generalized Integral using higher order symmetric derivative and its application to trigonometric series.		2014- 2016	330000.00

11. Publications:

(a) Published Research papers:

- i) P.Guptaroy, **Tarun K. Garai,** S.Bhattacharyya, " J/ψ Production In Some RHIC Interactions At and Some Look Into The System Size effect", Hadronic Journal, **31**,513-528 (2008):ISSN: 0162-5519
- ii) P.Guptaroy, **Tarun K. Garai,** Goutam Sau, S.K.Biswas, S.Bhattacharyya, "Analysing J/ψ Production In Various RHIC Interactions with A Version of Sequential Chain Model (SCM)", Hadronic Journal, **32**, 95-124 (2009) ISSN: 0162-5519
- iii) S.Ray and **T.K.Garai**, "On Laplace Continuity". Real Analysis Exchange, 37(2). 2011/2012 279-290. ISSN: 0147-1937
- iv) S.Ray and **T.K.Garai**, "Integration By Parts For Laplace-Perron Integral". Will appear in Rev.Bull.Cal.Math.Soc, **21**, (1) 71-78(2013) . ISSN: 2231-5306
- v) S.Ray and **T.K.Garai**, "Convexity Conditions For Approximate Generalized Riemann Derivable Functions". Indian Journal of Mathematics., Allahabad Mathematical Society. **55**(3) 315-323(2013) ISSN: 0019-5324
- vi) **T.K.Garai** and S.Ray, "Integration by Parts for D_k Integral", International Journal of Modern Engineering Research, **5**(1) 61-65(2015) ISSN: 2249-6645
- vii) **T.K.Garai** and S.Ray, "A Perron Type Integration Using Laplace Derivative", Bull. Cal. Math. Soc, Vol 110, No.1, (2018), 5-10.
- viii) **T.K.Garai**, "Relation between Lp-Riemann Derivative, Approximate Riemann Derivative and Riemann Derivative", International Journal of Scientific Research in Mathematical and Statistical Sciences, Vol 6, Issue.1, (2019), 167-172.
- ix) **T.K.Garai**, Higher Order L_p-Derivative, L_p-Continuity and L_p-Boundedness of Complex Valued Function, International Journal of Scientific Research in Mathematical and Statistical Sciences, Vol 6, Issue.1, (2019), 307-310.
- x) **T.K.Garai**, Symmetric Lp-Riemann Derivative, Journal of Applied Science and Computations, Vol VI, Issue.II, (2019), 1807-1811.

(b) No. of Seminar/Conference attended (Invited talk / Paper presentation only):

Sl.N o	Topic	Organised By	Date	Title of the Paper
1.	National Seminar on Mathematics and Application	Department of Mathematics, The University of Burdwan	Mathematics, The 2011 niversity of Burdwan	
2.	National Seminar on Mathematics for Non-Linear Aspects of Analysis and Algebra	Department of Mathematics, Siksha Bhavana, Visva-Bharati	March,24-25 2012	On Laplace Perron Integral
3.	National Seminar on Mathematics and Application	Department of March,28-29 Mathematics, The 2012 University of Burdwan		Convexity Conditions for Approximate Generalised Riemann Derivable functions.
4.	International Conference on Frontier of Mathematical with Application	Calcutta Mathematical Society, Calcutta	Dec,07-09 2012	Integration by Parts For Laplace Perron Integral
5.	National Seminar on Mathematics for Non-Linear Systems	Department of Mathematics, Siksha Bhavana, Visva-Bharati	March,17-18 2013	Approximate Generalised Riemann Derivative of Order Two
6.	National Seminar on Mathematics To Commemorate Sesquientenary of Sir Asutosh Mookherjee	Department of Mathematics SKBU	April25, 2014	A Generalised Integral
7.	The 8 th International Conference on Mathematical Science for Advancement of Science and Technology	Institute for Mathematics, Bioinformatics, Information Technology and Computer Science	December 21- 23, 2014	Integration by Parts for D_k Integral
8.	International Conference on Revisiting Mathematics and Mathematical Science	Department of Mathematics, The University of Burdwan	Feb 18-20, 2015	The L_n Integral
9.	State Level Seminar on "A Tribute To People's Man APJ Abdul Kalam Who Served Our Nation Trough His Life and Work	Department of Chemistry, raghunathpur College, Purulia	15 th October 2015	A Comparative Study of APJ Abdul Kalam's <i>Wings of Fire</i> An Auto Biography
10.	One Day State Level Seminar on Scientific, Social & Economic Impact on Environment: Awareness, Benefits & Limitations	Raghunathpur College, Raghunathpur, Purulia	10.01.2017	Green Revolution: Impact Limits and benefits
11.	International Conference on Exploring Advances in Mathematical Sciences	Department of Mathematics, University of Gourbanga, Malda	March,23-24 2017	Higher Order L _p - Derivative, Complex Valued Function .
12	International Conference on Geometry and Mathematical Models in Complex Phenomena	Calcutta Mathematical Society, Kolkata	December 05- 07, 2017	A Perron Type Integration Using Laplace Derivative
13	International Conference MSAST 2017	Institute for Mathematics, Bioinformatics, Information Technology and Computer Science	December 21- 23, 2017	L _P -Riemann Derivative

12.(a) Design of new curricula/ professional update:

Sl.N	Name of the Programme	Venue	Duration
0			
1.	9 th Refresher Course in Mathematics	Academic Staff College,	Feb 17 To March 09,
		Burdwan University	2007
2.	70 th Orientation Programme	Academic Staff College,	May 16 To 12 th June
		Burdwan University	2009
3.	Workshop for framing U.G Syllabus in	Sidho-Kanho-Birsha	April 21, 2011
	Mathematics, Sidho-Kanho-Birsha	University, Purulia.	
	University		
4.	Refresher Course in Basic Science	HRDC Ranchi	11 th Jan to 31 st Jan
	(Physics, Chemistry, Mathematics)	University, Ranchi	2016
5.	UGC Sponsored Workshop on CBCS	HRDC, Burdwan	29 th January to 4 th
	-	University, Burdwan	February 2019