Dr. Ripan Saha

Raiganj university Department of Mathematics College Para, Raiganj Uttar Dinajpur, West Bengal-733134,INDIA		ripanjumaths@gmail.com https://sites.google.com/site/ripansahamaths/ Phone: (+91)8481996445	
Current Position	Professor(Assistant) Raiganj University, India.		
Research Interest	Associative and Non associative rings and algebras, Topology.		
Education	 Jadavpur University, Kolkata Ph.D., 2017- 2021. Indian Institute of Science Education and Research (IISER), Mohali DST-INSPIRE Fellow, Mathematics, January 2014-August 2016. Indian Institute of Technology (IIT) Kanpur M.Sc., Mathematics, 2013. 		
	Jadavpur University B.Sc., Mathematics, 2011.		
Research Experience	e Centre de Recerca Matemàtica (CRM), Barcelona, Spain Visitor, May 16- July 1, 2022		
	Stat. Math. Unit, Indian Stat Visiting Scholar, December 2015-J		
Project Grants	Principal Investigator , Core Research Grant (CRG) from Science and Engineering Boa Department of Science and Techno Govt. of India, from January 2023	urd (SERB), CRG/2022/005332 ology (DST)	
Awards and Fellowships	CIMPA-CARMIN (France) L 2021-2022 DST-INSPIRE Research Fello 2014-2016. DST-INSPIRE SHE 2008-2013.		

CSIR-UGC NET June 2013. **IIT-GATE** 2013.Summer Research Program Fellowship Indian Academy of Sciences 2012. **SPIM** Fellowship Harish Chandra Research Institute 2012.IIT JAM 2011.Publications: 19. Nijenhuis operators on Leibniz algebras (2024), (with B. Mondal), Journal of Geometry and Physics, Volume 196, February 2024, 105057. 18. Cohomology of modified Rota-Baxter Leibniz algebra of weight k (2023) (with B. Mondal), to appear, Journal of Algebra and its Applications. 17. On Compatible Leibniz algebras (2023), arXiv:2305.01025 (with Abdenacer Makhlouf), to appear, Journal of Algebra and its Applications 16. On α -type (equivariant) cohomology of Hom-pre-Lie algebras (2024) with S. Guo, Communications in Algebra, 52:2, 479-499. 15. On Hom-Groups and Hom-Group actions (2023) (with Liangyun Chen, Tianqi Feng, Yao Ma, Hongyi Zhang), Acta Mathematica Sinica, English Series, Vol. 39, No. 10, pp. 1887-1906. 14. Cohomology, deformations and extensions of Rota-Baxter Leibniz algebras (with B. Mondal) Communications in Mathematics, Volume 30 (2022), Issue 2. 13. On equivariant Lie-Yamaguti algebras and related structures (with Guo and Mondal), Asian-European Journal of Mathematics Vol. 16, No. 02, 2350022 (2023). 12. On 3-Lie algebras with a derivation (with S. Guo), Afrika Mathematika, 33, 60 (2022). 11. Equivariant one parameter formal deformations of Hom-Leibniz algebras, (with Goutam Mukherjee), Communications in Contemporary Mathematics, Vol. 24, No. 03, 2050082 (2022). 10. On equivariant Hom-Leibniz cohomology, (2021), Afrika Mathematika, 32(7), 1685-1696.

9. On certain classes of algebras in which centralizers are ideals (with David A. Towers), J. Lie Theory, 31 (2021), No. 4, 991–1002.

8. Involutive and oriented dendriform algebras (with Apurba Das) Journal of Algebra, 581 (2021) 63-91.

7. On equivariant dendriform algebras (2021), (with A. Das), Colloquium Mathematicum 164 (2021), 283-303.

6. Cohomology and deformations of oriented dialgebras, (with Ali Koam), arXiv:2001.02386.
Journal of Homotopy and Related Structures, 15, 511–536 (2020),

5. On Leibniz algebras whose centralizers are ideals (2020), (with Pratulananda Das), arXiv:1903.09932. Indian Journal of Pure and Applied Mathematics, 51, 1555-1571 (2020)

4. Cup-product in Hom-Leibniz cohomology and Hom-Zinbiel algebras (2020), *Communications in Algebra*, 48:10, 4224-4234.

3. Equivariant associative dialgebras and its one-parameter formal deformations (2019), *Journal of Geometry and Physics*, Volume 146, December 2019, 103491.

2. On some special property of the Farey sequence, (2019), Mathematical Journal of Interdisciplinary Sciences, 7(2), 121-123.

1. Cup-product for equivariant Leibniz cohomology and Zinbiel algebras (with Goutam Mukherjee)(2019), *Algebra Colloquium*, Vol. 26, No. 2, 2019, 271-284.

Preprints: 21. On Nijnehuis Lie triple system (2024) (with B. Mondal, S. Guo)

20. On deformation cohomology of compatible Hom-associative algebras (2022) (with T. Chtioui), arXiv:2210.12501.

19. Rota-Baxter operators and related structures on anti-flexible algebras (2021), arXiv:2108.01333.

Work in Progress	22. z-classes of Lie algebras (2022) (with David A. Towers).	
	21. Relative Rota-Baxter operators on dialgebras (2022) ,	
Refereeing Service	 Colloq. Math. Reviewer for AMS MathSciNet (153272). Reviewer for zbMATH (19070). Journal of Homotopy and Related Structures. Open Mathematics Filomat Journal of Differential Geometry Journal of Geometry and Physics Journal of Algebra 	
Memberships	 Affiliate Member, American Mathematical Society (AMS). CIMPA (France) Fellow. 	
	 3. Life Member, Indian Mathematical Society (IMS). 4. Life Member, Calcutta Mathematical Society (CMS). 	
Current PhD students		
	2. Mr. Abdur Rohim. UGC-Maulana Azad National Fellow.	

Grants Received	CIMPA(France) Travel grant (2024) To visit NORSU, Dumaguete, Philippines.		
	CIMPA(France) Travel grant (2022) To visit CRM, Barcelona, Spain		
	CRM-CIMPA Grant (2021) Laureates for the CRM-IRP on Higher Homotopical Structures at Barcelona, Spain.		
	CIMPA Travel Grant(2018) To visit: Institute of Mathematics, Tashkent, Uzbekistan.		
	ICTS Travel Grant(2017) To visit: ICTS, Bangalore, India.		
	ICTP Travel Grant(2015) To visit: ICTP, Trieste, Italy.		
Talks	CIMPA(2024) Research talk, Dumaguete, Philippines, On Compatible Leibniz Algebras(January,2024).		
	CIMPA(2018) Research talk, Tashkent, Uzbekistan, Equivariant Leibniz Cohomology(September,2018).		
	Jadavpur University,Kolkata, India. Leibniz algebra with a finite group action and its cohomology(February,2018)		
Teaching	Raiganj University Teaching linear algebra, abstract algebra, analysis, topology, and various other UG and PG courses at Raiganj University since 2016.		
	Dakshin Dinajpur University Abstract algebra-I & II, Number Theory courses for PG students, 2021-22 & 2022-23.		
Invited speaker	"Recent Trends in Mathematics and Applications", Ramananda College, Bankura University, 27th November 2021.		
	"MATHEMATICS FOR COMPUTING: RECENT TRENDS" Indas College, Affilated to Bankura University, Bankura 7th and 8th october 2021.		
	"Balurghat College Mathematics Camp", Balurghat College, West Bengal, India, 21st October 2018 to 10th November 2018.		
	"Winter school on basic mathematics for college students", Indian Statistical Institute (ISI) north east center at Tezpur, 26th December 2016 to 3rd January 2017.		

CIMPA: Current Trends in Algebra,

Workshops/ Schools attended:

NORSU, Dumaguete, Philippines 29th January 2024 to 09th February 2024.

CRM IRP on Higher Homotopical Structures (online),
Centre de Recerca Matemàtica (CRM), Bercelona, Spain
17th May 2021 to 10th July 2021.
Workshop on Derived Geometry,
Centre de Recerca Matemàtica (CRM), Barcelona, Spain, June 6 to 10, 2022.

Barcelona Conference on Higher Structures, Organised by the Centre de Recerca Matematica, held at University of Barcelona, Spain, June 13 to 17, 2022.

Online TEW on Complex Analysis and Number Theory, IIT Bhubaneswar, India, 18 – 31 December 2021.

Online Workshop on "Finite Groups of Lie Type" IISER Pune, 31 July – 03 October, 2021.

Knots through web (online), International Center for Theoretical Sciences (ICTS),India, 24th August 2020 to 28th August 2020.

Virtual Math Fest 2020. July 20-26, 2020.

CIMPA-Non-associative algebra and applications,

Uzbekistan Academy of Sciences V.I.Romanovskiy Institute of Mathematics, 10th September to 21st September 2018.

Geometry, Groups and Dynamics, International Center for Theoretical Sciences (ICTS), India, 06th November 2017 to 24th November 2017.

AIS Algebraic Topology, NEHU, Shillong, India, 12th June 2016 to 1st July 2016.

AIS Differential Geometry, IIT Bombay, India, 9th May 2016 to 28th May 2016.

Advanced school and workshop on Geometry of discrete actions,

International Center for Theoretical Physics (ICTP), Trieste, Italy, 24th August to 4th September 2015.

Topology,

Indian Statistical Institute (ISI), Kolkata, 14th to 21st December 2015.

Some High Points of Undergraduate Mathematics Education, Ramanujan Mathematical Society (RMS),

May 14, 2015.

Advanced Instructional School on Quadratic forms, IISER Mohali, India.

2nd to 21st June 2014.

Advanced Instructional School on Lie Groups,

Indian Institute of Technology(IIT), Bombay, India, July 7th to 26th 2014.

Lattices: Geometry and Dynamics,

IISER Mohai, India, 17th to 22nd December 2014.

ICTS-Knot theory and its applications,

IISER Mohali,India,
10th December to 20th December 2013
Advanced Instructional School on Lie Groups,
Indian Institute of Technology(IIT), Bombay, India,
July 7th to 26th 2014.

Lattices: Geometry and Dynamics,

IISER Mohai, India, 17th to 22nd December 2014.

ICTS-Knot theory and its applications, IISER Mohali,India, 10th December to 20th December 2013

Conferences attended **30th Annual Conference of Ramanujan Mathematical Society**, IISER Mohali,India, May 15-17, 2015.

Worksh Seminar	op/ c organized	National seminar on Mathematics and its Applications (2017), At Raiganj University during 20th and 21st March 2017.		
		Summer training program for school students(2018), Raiganj University.		
		National seminar on Recent Trends of and Its Applications (2019), At Raiganj University during 14th and 15th 2		
Administrative Activities		Member of Post Graduate Board of Studies, 2024-, Dakshin Dinajpur University, West Bengal, India.		
		Assistant controller of Examinations(Offg.), Raiganj University, June 2017-February 2018.		
		Member of Post Graduate Board of Studies, 2016-, Raiganj University.		
		Member of Under graduates Board of Studies, 2016-, Raiganj University.		
Programme Officer, NSS Unit-V, 20 Raiganj University.		Programme Officer, NSS Unit-V, 2017- Raiganj University.	7-2021,	
		Nodal Officer, COVID-19 Monitoring Committee, 2021. Raiganj University.		
Center-in-charge for PG examination (2) Raiganj University.		2017),		
		Member, NAAC Committee (2022), Raiganj University.		
	Prof. Goutam Mukherjee StatMath Unit Indian statistical Institute goutam@isical.ac.in		Prof. Kapil Hari Paranjape Department of Mathematics IISER Mohali. kapil@iisermohali.ac.in	
Department of		du Gongopadhyay f Mathematical Sciences ce of Science Education and Research Mohali. mail.com	Prof. Pratulananda Das Department of Mathematics Jadavpur University pratulananda@yahoo.co.in	