01 July, 2026

Curriculum Vitae of **S. M. RAYHANUL ISLAM**

CONTACT INFORMATION

ASSOCIATE PROFESSOR
DEPARTMENT OF MATHEMATICS
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EDUCATION

- **Master of Science in Mathematics** (Physical Thesis Group) University of Rajshahi, Rajshahi, Bangladesh. Results: **First class (87.12%)**, Passing Year: 2010 (Examination held in 2011). Medium of Instruction: English.
- **Bachelor of Science with Honors in Mathematics** (Four Years), University of Rajshahi, Rajshahi, Bangladesh. Results: **First class (68.56%)**, Year of Passing: 2009 (Examination held in 2010). Medium of Instruction: English.

CAREER EXPERIENCE

- Associate Professor (1st Sep 2025 to present), Department of Mathematics, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
- Assistant Professor (1st Sep 2015 - 31 Aug, 2025), Department of Mathematics, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
- Lecturer (1st Sep, 2013 - 31 Aug, 2015), Department of Mathematics, Pabna University of Science & Technology, Pabna-6600, Bangladesh.

RESEARCH INTEREST

- Investigation of optical and soliton solutions of the nonlinear PDEs and time-fractional PDEs; Nonlinear dynamics in optics and fluids; Mathematical Physics and Bifurcation Analysis.

RESEARCH GRANTS

- **Title of the project:** Dynamical perspective of optical soliton solutions to the time-fractional nonlinear models in optical fibers: Impact of parameters, bifurcation, chaos, and sensitivity analysis; **Funding Organization**: University Grants Commission at PUST; **Amount**: TK: 3, 00,000/-; **Role**: Principal investigator, **Year**: 2025-26.
- **Title of the project:** Bifurcation, phase plane analysis and soliton solutions of the nonlinear evolution equations by using elegant technique; **Funding Organization**: University Grants Commission at PUST; **Amount**: TK: 2, 00,000/-; **Role**: Principal investigator, **Year**: 2023-24.
- **Title of the project:** The agreement between the novel exact and numerical solutions of the nonlinear models; **Funding Organization**: Ministry of Science and Technology; **Amount**: TK: 3, 00,000/-; **Role**: Co-investigator, **Year**: 2022-23.
- **Title of the project:** Diverse soliton solutions to the nonlinear models by using different techniques; **Funding Organization**: University Grants Commission at PUST; **Amount**: TK: 1, 30,000/-; **Role**: Principal investigator, **Year**: 2022-23.
- **Title of the project:** Exact Solutions of Nonlinear Evolution Equations by Enhanced (G'/G)-Expansion Method; **Funding Organization**: University Grants Commission at PUST; **Amount**: TK: 15,000/-; **Role**: Principal investigator, **Year**: 2016-17.

SUPERVISED

1. Master of Science (M.S., Thesis): One (02)
2. Bachelor of Science (Project): Sixteen (23)

UNDER SUPERVISION

1. Bachelor of Science (Project): Three (03)
2. Master of Science (M.S., Thesis): One (01)

JOURNAL ARTICLES

54. **Islam, S. M. R.,** Khan, K., Akbar M. A. (**2026**). Optical Soliton Dynamics and Bifurcation Behavior in a Time-Fractional Shynaray-IIA System with Beta Derivative. AIP Advances, (Submitted), (**Web of Science, Q3, IF: 1.5, AIP Publisher**).
53. Al Themairi, A., Nurudden, R. I., Nass, A. M., **Islam, S. M. R.,** Sulaiman, T. A. (**2026**). Exact solitary wave structures and stability analysis of nonlinearly damped elastic wave models. *Journal of Nonlinear Mathematical Physics*, (Submitted), (**SCIE, Q2, IF: 1.2, Springer Publisher**).
52. Sagib, M., Islam, A., Hossain, M. S., **Islam, S. M. R.** (**2026**). Exploring comparative solitary wave structures and modulation instability analysis to the nonlinear fractional Kairat-X equation. *Journal of Mathematical Physics*, (Submitted) (**SCIE, Q2, IF: 1.4, AIP Publisher**).
51. **Islam, S. M. R.** (**2026**). Dynamical Behavior of the Soliton Solutions of the Time-Fractional Akbota Equation with Beta Derivative and its Bifurcation analysis. *Engineering Reports*, (Under Review) (**SCIE, Q2, IF: 2.0, Wiley Publisher**).
50. Sagib, M., Hasan, M. M., Islam, Z., **Islam, S. M. R.** (**2026**). Analysis and numerical simulation of a fractional order crime model: A comparative study. *AIP Advances*, (Submitted), (**Web of Science, Q3, IF: 1.5, AIP Publisher**).
49. Hossain, R., Sajib, M., Aslam, M. A., & **Islam, S. M. R.** (**2025**). Soliton Solutions, Bifurcation, Sensitivity and Chaotic Analysis of the nonlinear Combined Kairat-II-X wave model. *Physics Letter A*, 562, 131010. https://doi.org/10.1016/j.physleta.2025.131010 (**SCI, Q2, IF: 2.6, Elsevier Publisher**).
48. Rahman, M. M., **Islam, S. M. R.**, & Haque, A. (**2025**). Investigations of soliton structures and dynamical behaviors of the Westervelt Equation with two analytical techniques. ***AIP Advances***, 15(5), 055234. https://doi.org/10.1063/5.0271307 (**Web of Science, Q3, IF: 1.4, AIP Publisher**).
47. **Islam, S. M. R.**, Islam, M. E., Akbar, M. A., Kumar, D. (**2025**). The stretch coordinate effect, bifurcation, and stability analysis of the nonlinear Hamiltonian amplitude equation. ***Partial Differential Equation in Applied Mathematics***, 13, 101126. https://doi.org/10.1016/j.padiff.2025.101126 (**Scopus, Q1, SC: 6.2, Elsevier Publisher**).
46. Arafat, S. M.Y., Saklayen, M. A., & **Islam, S. M. R. (2025)**. Analyzing diverse soliton wave profiles and bifurcation analysis of the (3+1)-Dimensional mKdV-ZK model via two analytical schemes. ***AIP Advances***, 15(5), 015219. https://doi.org/10.1063/5.0248376 (**Web of Science, Q3, IF: 1.4, AIP Publisher**).
45. Arafat, S. M. Y., Asif, M., **Islam, S. M. R**, Saklayen, M. A., Rahman, M. M. **(2024)**. Investigating travelling wave solutions of the (2+1)-dimensional Boiti-Leon-Manna-Pempinelli equation through the two analytical techniques. ***Physica Scripta***, 100, 015285. https://doi.org/10.1088/1402-4896/ad9ee9 (**ISI, Q2, IF: 2.6, IOP Science**).
44. Arafat, S. M. Y., & **Islam, S. M. R. (2024)**. Bifurcation analysis and soliton structures of the

truncated M -fractional Kuralay-II equation with two analytical techniques. ***Alexandria Engineering Journal***, 105, 70-87. https://doi.org/10.1016/j.aej.2024.06.079 (**SCI, Q1, IF: 6.2, Elsevier Publisher**).

43. **Islam, S. M. R. (2024)**. Bifurcation analysis of the soliton solutions to the Doubly dispersive equation in elastic inhomogeneous Murnaghan's rod. ***Scientific Reports***, 14(1), 11428. https://doi.org/10.1038/s41598-024-62113-z (**SCI, Q1, IF: 4.6, Springer Publisher**).
42. **Islam, S. M. R. (2024)**. On the Soliton Structures of the (2+1)-Dimensional Long Wave-Short Wave Resonance Interaction Equation with Two Analytical Techniques and its Bifurcation Analysis. ***Ganit: Journal of Bangladesh Mathematical Society***, 44.1, 59–76. https://doi.org/10.3329/ganit.v44i1.73987 (**Math Sci Net, Bangladesh Math Society**).
41. **Islam, S. M. R.**, Arafat, S. M. Y., & Inc, M. (**2024**). Exploring novel optical soliton solutions for the stochastic chiral nonlinear Schrödinger equation: stability analysis and impact of parameters. ***Journal of Nonlinear Optical Physics & Materials***, 34(5), 2450009. https://doi.org/10.1142/S0218863524500097 (**SCI, Q3, IF.: 2.7, World Scientific Publisher**)
40. **Islam, S. M. R. (2024)**. Bifurcation analysis and exact wave solutions of the nano-ionic currents equation via two analytical techniques. ***Results in Physics***, 58, 107536. https://doi.org/10.1016/j.rinp.2024.107536 (**SCI, Q2, IF.: 5.3, Elsevier Publisher**).
39. **Islam, S. M. R.**, & Khan, K. (**2024**). Investigating wave solutions and impact of nonlinearity: Comprehensive study of the KP-BBM model with bifurcation analysis. ***Plos One***, 19(5), e0300435. https://doi.org/10.1371/journal.pone.0300435 (**SCI, Q1, IF.: 3.7, Public Library of Science, UK**)
38. **Islam, S. M. R.**, Arafat, S. M. Y., Alotaibi, H., & Inc, M. (**2024**). Some optical soliton solutions with bifurcation analysis of the paraxial nonlinear Schrödinger equation. ***Optical and Quantum Electronics***, 56, 379. https://doi.org/10.1007/s11082-023-05783-9 (**SCI, Q2, IF: 2.794, Springer Publisher**)
37. Mawa, H. Z., **Islam, S. M. R.**, Bashar, M. H., Roshid, M. M., Islam, J., & Akter, S. (**2023**). Soliton Solutions to the BA Model and $(3+1)$-Dimensional KP Equation Using Advanced $\exp(-\phi(\xi)$Expansion Scheme in Mathematical Physics. ***Mathematical Problems in Engineering***, 2023, 5565509. https://doi.org/10.1155/2023/5564509 (**Scopus, zbMath, Q2, SC.: -2.6, Hindawi Publisher**)
36. Alam, M. N., & **Islam, S. M. R.** (**2023**). The agreement between the novel exact and numerical solutions of the nonlinear models. ***Partial Differential Equation in Applied Mathematics***, 8, 100584. https://doi.org/10.1016/j.padiff.2023.100584 (**Scopus, Q2, SC.: -3.4, Elsevier Publisher**)
35. **Islam, S. M. R.**, & Basak, U. S. (**2023**). On traveling wave solutions with bifurcation analysis for the nonlinear potential Kadomtsev-Petviashvili and Calogero–Degasperis equations. ***Partial Differential Equation in Applied Mathematics***, 8, 100561. https://doi.org/10.1016/j.padiff.2023.100561

(**Scopus, Q2, SC.: -3.4, Elsevier Publisher)**

34. **Islam, S. M. R.**, Ahmed, H., Wang, H., Akbar, M. A., Khan, K., Awwad, F. A., & Ismail, E. A. A. (**2023**). Stability analysis, phase plane analysis and isolated soliton solution to LGH equation in mathematical physics. ***Open Physics***, 21(1), 20230104. https://doi.org/10.1515/phys-2023-0104 (**SCIE, Q3, IF.: 1.9, Walter de Gruyter Publisher)**
33. **Islam, S. M. R.**, Khan, K., & Akbar, M. A. (**2023**). Optical soliton solutions, bifurcation, and stability analysis of the Chen-Lee-Liu model. ***Results in Physics***, 51, 106620. https://doi.org/10.1016/j.rinp.2023.106620 (**SCI, Q2, IF.: 4.565, Elsevier Publisher**)
32. Arafat, S. M. Y., **Islam, S. M. R.**, Rahman, M. M., & Saklayen, M. A. (**2023**). On nonlinear optical solitons of fractional Biswas-Arshed model with beta derivative. ***Results in Physics***, 48, 106428. https://doi.org/10.1016/j.rinp.2023.106426 (**SCI, Q2, IF.: 4.565, Elsevier Publisher**)
31. Khan, K., Rajnesh, K. M., & **Islam S. M. R.** (**2023**). Traveling Waves in Two Distinct Equations: The (1+1)-Dimensional cKdV–mKdV Equation and the sinh-Gordon Equation. ***International Journal of Applied and Computational Mathematics***, 9, 21. https://doi.org/10.1007/s40819-023-01503-9 **(Scopus, ZbMath, Q3, CS.:2.3, Springer Publisher**)
30. Arafat, S. M. Y., Fatema, K., & **Islam S. M. R.**, Islam, M. E., Akbar, M. A., & Osman, M. S. (**2023**). The mathematical and wave profile analysis of the Maccari system in nonlinear physical phenomena, ***Optical and Quantum Electronics***, 55, 136. https://doi.org/10.1007/s11082-022-04391-3 (**SCI, Q2, IF: 2.794, Springer Publisher**)
29. **Islam S. M. R.**, Arafat, S. M. Y., & Wang, H. F. (**2023**). Abundant closed-form wave solutions to the simplified modified Camassa-Holm equation. ***Journal of Ocean Engineering & Science***, 8(3), 238-245. https://doi.org/10.1016/j.joes.2022.01.012 (**SCIE, Q2, IF: 4.803, Elsevier Publisher**).
28. Arafat, S. M. Y., Khan, K., **Islam, S. M. R.**, & Rahman, M. M. (**2022**). Parametric effects on paraxial nonlinear Schrodinger equation in Kerr media. ***Chinese Journal of Physics***, 83, 361-378. https://doi.org/10.1016/j.cjph.2022.08.026 (**SCI, Q2, IF.: 3.923, Elsevier Publisher**)
27. Bashar, M. H., Inc, M., **Islam, S. M. R.**, Mahmoud, K. H., & Akbar, M. A. (**2022**). Soliton solutions and fractional effects to the time fractional modified equal width equation. ***Alexandria Engineering Journal***, 61, 12539–547. https://doi.org/10.1016/j.aej.2022.06.047 (**SCI, Q1, IF: 6.63, Elsevier Publisher**)
26. Bashar, M. H., Arafat, S. M. Y., **Islam, S. M. R.**, Islam, S., Rahman, M. M. (**2022**). Extraction of some optical solutions to the (2+1)-dimensional Kundu–Mukherjee–Naskar equation by two efficient approaches. ***Partial Differential Equation in Applied Mathematics***, 6, 100404. https://doi.org/10.1016/j.padiff.2022.100404 (**Scopus, Q3, CS.:2.3, Springer Publisher**)
25. **Islam, S. M. R.**, Khan, K., Arafat, S. M. Y., & Akbar, M. A. (**2022**). Diverse analytical wave solutions of plasma physics and water wave equations. ***Results in Physics***, 40, 105834.

https://doi.org/10.1016/j.rinp.2022.105834 (**SCI, Q2, IF.: 4.565, Elsevier Publisher**)

24. Akbulut, A., & **Islam, S. M. R.** (**2022**). Study on the Biswas–Arshed Equation with the Beta Time Derivative. ***International Journal of Applied and Computational Mathematics***, 8, 167. https://doi.org/10.1007/s40819-022-01350-0 (**Scopus, Q3, CS.:2.3, Springer Publisher**)
23. **Islam, S. M. R.**, Kumar, D., Fendzi-Donfack, E., & Inc M. (**2022**). Impacts of nonlinearity and wave dispersion parameters on the soliton pulses of the (2+1)-dimensional Kundu-Mukherjee-Naskar equation. ***Revista Mexicana de Fisica***, 68(6), 061301. https://doi.org/10.31349/RevMexFis.68.061301 (**SCIE, Q3, IF:1.297, Sociedad Mexicana de Fisica Publisher**)
22. Akbulut, A., **Islam, S. M. R.**, Arafat, S. M. Y., Tascan, F. (**2022**). A novel scheme for SMCH equation with two different approaches. ***Computational Methods for Differential Equations***, 11(2), 263-280. https://doi.org/10.22034/cmde.2022.50363.2093 (**ESCI, University of Tabriz Publisher**)
21. **Islam, S. M. R.**, & Wang, H. F. (**2022**). Some analytical soliton solutions of the nonlinear evolution equations. ***Journal of Ocean Engineering & Science***, https://doi.org/10.1016/j.joes.2022.05.013 (**SCIE, Q2, IF.:4.803, Elsevier Publisher**)
20. Bashar, M. H., Arafat, S. M. Y., **Islam, S. M. R.**, & Rahman, M. M. (**2022**). Wave solutions of the couple Drinfel'd-Sokolov-Wilson equation: new wave solutions and free parameters effect. ***Journal of Ocean Engineering & Science***, https://doi.org/10.1016/j.joes.2022.05.003 (**SCIE, Q2, IF.:4.803, Elsevier Publisher**)
19. **Islam, S. M. R.**, Bashar, M. H., Arafat, S. M. Y., Wang, H. F., & Roshid, M. M. (**2022**). Effect of the free parameters on the Biswas-Arshad model with a unified technique. ***Chinese Journal of Physics***, 77, 2501-2519. https://doi.org/10.1016/j.cjph.2022.04.022 (**SCI, Q2, IF.: 3.923, Elsevier Publisher**)
18. Arafat, S. M. Y., **Islam, S. M. R.**, & Bashar, M. H. (**2022**). Influence of the Free Parameters and Obtained Wave Solutions from CBS Equation. ***International Journal of Applied and Computational Mathematics***, 8, 99. https://doi.org/10.1007/s40819-022-01295-4 (**Scopus, Q3, CS.:2.3, Springer Publisher**)
17. **Islam, S. M. R.**, Akbulut, A., & Arafat, S. M. Y. (**2022**). Exact solutions of the different dimensional CBS equations in mathematical physics. ***Partial Differential Equation in Applied Mathematics***, 5, 100320. https://doi.org/10.1016/j.padiff.2022.100320 (**Scopus, Q3, CS.:2.3, Springer Publisher**)
16. Akbulut, A., **Islam, S. M. R.**, Rezazadeh, H., & Tascan, F. (**2022**). Obtaining exact solutions of nonlinear partial differential equations via two differential methods. ***International Journal of Modern Physics B***, 36(5), 2250041. https://doi.org/10.1142/S0217979222500412 (**SCI, Q3, IF.:1.219, World Scientific Publisher**)
15. **Islam, S. M. R.**, Bashar, M. H., & Noor, M. (**2021**). Immeasurable soliton solutions and enhanced (G'/G) -expansion method. ***Physics Open***, 9, 100086. https://doi.org/10.1016/j.physo.

2021.100086 (**Scopus, Q3, CS.: 2.7. Elsevier Publisher**)

14. Bashar, M. H., **Islam, S. M. R.**, & Kumar, D. (**2021**). Construction of traveling wave solutions of the (2+1)-dimensional Heisenberg ferromagnetic spin chain equation. ***Partial Differential Equation in Applied Mathematics***, 4, 100040. https://doi.org/10.1016/j.padiff.2021.100040 (**Scopus, Q3, CS.: 2.3, Springer Publisher**)
13. Bashar, M. H., & **Islam, S. M. R.** (**2020**). Exact solutions to the (2+1)-Dimensional Heisenberg ferromagnetic spin chain equation by using modified simple equation and improve F-expansion methods. ***Physics Open***, 5, 100037. https://doi.org/10.1016/j.physo.2020.100027 (**Scopus, Q3, CS.: 2.7. Elsevier Publisher**)
12. Bashar, M. H., **Islam, S. M. R.**, & Islam, S. (**2019**). Exact travelling wave solutions of the nonlinear evolution equations in mathematical physics by using enhanced (G'/G)-expansion method. ***International Research Journal of Nature Science and Technology***, 1(4), 1-12.
11. **Islam, S. M. R.**, Khan, K., Al-Woadud, K. M. A. (**2018**). Analytical Studies on the Benney-Luke Equation in Mathematical Physics. ***Waves in Random & Complex Media***, 28(2), 300-309. https://doi.org/10.1080/17455030.2017.1342880 (**SCI, Q2, IF-3.223, Taylor and Francis Publisher**)
10. **Islam, S. M. R. (2015)**. Application of an enhanced (G'/G)-expansion method to find exact solutions of nonlinear PDEs in particle physics. ***American Journal of Applied Science***, 12(11), 836-846. https://doi.org/10.3844/ajassp.2015.836.846 (**Scopus, Science Publications**)
9. **Islam, S. M. R.**, Khan, K., & Akbar, M. A. (**2015**). Exact solutions of unsteady Korteweg-de Vries and time regularized long wave equations. ***Springer plus***, 4, 124. https://doi.org/10.1186/s40064-015-0893-y (**SCI, Q1, IF-0.982, Springer Publisher**)
8. Khan, K., Akbar, M. A., & **Islam, S. M. R.** (**2015**). Exact solutions for (1+1)-dimensional nonlinear dispersive modified Benjamin-Bona-Mahony equation and coupled Klein-Gordon equations. ***Springer plus***, 3, 724. https://doi.org/10.1186/2193-1801-3-724 (**SCI, Q1, IF-0.982, Springer Publisher**)
7. **Islam, S. M. R.**, Khan, K., & Akbar, M. A. (**2014**). Study of exp (G'/G)-expansion method for solving nonlinear partial differential equations. ***Journal of Advances in Mathematics and Computer Science***, 5(3), 397-407. https://doi.org/10.9734/BJMCS/2015/13387
6. **Islam, S. M. R.** (**2015**). The traveling wave solutions of the cubic nonlinear Schrodinger equation using the enhanced (G'/G)-expansion method. ***World Applied Science Journal***, 33(4), 659-667.
5. **Islam, S. M. R.**, Ali, M. S., Islam, M. S., & Khan, K. (**2015**). Traveling wave solutions for the Foam Drainage equation and the enhanced (G'/G)-expansion method. ***International Journal of Science Engineering and Technology***, 4(8), 426-431.
4. **Islam, S. M. R.** (**2015**). Applications of the exp (-Φ(ξ)) expansion method to find exact traveling

wave solutions of the Benney-Luke equation in mathematical physics. ***American Journal of Applied Mathematics***, 3(3), 100-105. https://doi.org/10.11648/j.ajam.20150303.14

3. Rahman, M. A., & **Islam, S. M. R.** (**2014**). Climate change observed in the Barind track. ***Experiment***, 21(4), 1499-1502.
2. Ghosh, B. C., **Islam, S. M. R.**, & Mamun, M. (**2015**). Empirical Evidence of Climate Change: Effects on Rice Production in Bangladesh. ***International Journal of Geology, Agriculture and Environmental Science***, 3(1), 1-6.
1. Mamun, M., Ghosh, B. C., & **Islam. S. M. R.** (**2015**). Climate Change and Rice Yield in Bangladesh: A Micro Regional Analysis of Time Series Data. ***International Journal of Scientific Research Publications***, 5(2): 1-8.

CONFERENCE PAPER PRESENTATION

8. Mitu, T. A., **Islam, S. M. R.** (**2026**): Exact Traveling Wave Solutions of the Damped Elastic Wave Models: Stability and Bifurcation Analysis, **International Conference** on Emerging Frontiers in Advanced Sciences and Technologies 2026, 27-28 June 2026, Faculty of Science, and Life and Earth Science, Pabna University of Science and Technology, Bangladesh, and Centre of Excellence for Advanced Computing, Universiti Malaysia Perlis, Malaysia.
7. **Islam, S. M. R.**, Khan, K., Akbar, M. A. (**2025**): Dynamical Characteristics of Soliton Solutions in the Time-Fractional Shynaray-IIA Model: A Comprehensive Study, 24th International **Mathematics Conference**, 18-19 Dec 2025, Organized by the Department of Mathematics, University of Chittagong, Bangladesh.
6. **Islam S. M. R.**, Khan K., Akbar M. A. (**2025**). Mathematical analysis of the time-fractional Akbota equation with beta derivative: optical soliton solutions, impact of fractional parameters, and bifurcation analysis. 2nd **International Conference** on Recent Advances in Science and Technology-2025, Faculty of Science, University of Rajshahi, Rajshahi, Bangladesh. 14-15 Nov, 2025.
5. Arafat S. M. Y., & **Islam S. M. R.** (**2025**): Mathematical analysis of the Truncated-Fractional Complex Kraenkel-Manna-Merle model: Novel soliton solutions, parametric effects, and bifurcation analysis, **23-24 Oct, 2025**, 1st **International Conference** on Science and Humanities for Sustainable Development, DUET, Gazipur, Bangladesh.
4. **Islam S. M. R.,** Rahman M. M. **(2024)**: On the Soliton Solutions of the Doubly Dispersive Equation and Its Bifurcation Analysis, 23rd **international mathematics conference** on 16-17 May, 2024. Department of Mathematics, University of Rajshahi, Rajshahi, Bangladesh.
3. **Islam S. M. R.,** Arafat S. M. Y., Piyas M. H. (**2023**): On optical soliton solutions of the stochastic chiral nonlinear Schrödinger equation and its bifurcation analysis, 1st **National Conference** on Advances in Science and Technology organized by Faculty of Science, BUET on 7-8 December, 2023.
2. Asif M., Arafat SMY., **Islam S. M. R.,** Rahman MM. (**2023**): Wave profile analysis of the (3+1)-dimensional mKdV-ZK model in mathematical physics. 1st **National Conference** on Advances in Science and

Technology organized by Faculty of Science, BUET on 7-8 December, 2023. (***Poster Presentation***)

1. **Islam. S. M. R.**, Khan. K., Akbar M. A. (**2015**): The enhanced (G'/G)–expansion method applied to the Coupled (1+1)-Dimensional Broer-Kaup equations, 1st **International Conference** on Mathematics and its Applications. Mathematics Discipline, Science Engineering and Technology School, Khulna University, Khulna-9208, Bangladesh.

PROFESSIONAL ACTIVITIES

❖ **REVIEWER:**

International Journal of Applied and Computational Mathematics (Springer); Optical and Quantum Electronics (Springer); Scientific Reports (Springer); Nonlinear Dynamics (Springer); Journal of Mathematics (Hindaw); Acta Mechanica et Automatica; Applied Sciences (MDPI); Modeling Earth Systems and Environment (Springer); Results in Engineering (Elsevier); Symmetry (MDPI); Mathematics (MDPI); Heliyon (Elsevier); Journal of Ocean Engineering and Sciences (Elsevier); Waves in Random and Complex Media (Taylor and Francis); European Physical Journal Plus (Springer); Physica Scripta (IOP Science); International Journal of Applied Mathematics and Theoretical Physics (Science PG); American Journal of Applied Mathematics (Science PG); American Journal of Applied Sciences (Science Publications).

❖ **EDITOR:**

Journal of Mathematical Techniques and Computational Mathematics

MEMBERSHIPS

- Life Time Member (আ ৯৭৩) of Bangladesh Mathematical Society, Dhaka, Bangladesh.
- Life Time Member of Rajshahi University Alumni, Rajshahi, Bangladesh.
- Life Time Member of Rajshahi University Mathematics Alumni Association, Rajshahi, Bangladesh.
- Honorable Member of Badalgachi Students Welfare Association, University of Rajshahi, Rajshahi. Bangladesh.

SCHOLARSHIP & AWARD

- University Full Scholarship from the Central South University, China.
- A F Mujibur Rahman Scholarship and Gold Medal Award, A F Mujibur Rahman Foundation, Dhaka, Bangladesh.
- University of Rajshahi (RU) merit Scholarship during undergraduate studies.
- Got Shah Makhdum Hall Talent Award, Rajshahi University, Bangladesh for good result in B.Sc. (Hons).
- Achievement Award 2014, Badalgachhi Students Welfare Association (BSWA), University of Rajshahi, Rajshahi, Bangladesh.

RESEARCH AUTHOR ID (WEB BASED)

Google Scholar ID**:** https://scholar.google.com/citations?hl=en&user=ZmTJjkEAAAAJ
ResearchGate ID**:** https://www.researchgate.net/profile/S_M_Rayhanul_Islam
Orcid Author ID**:** https://orcid.org/0000-0002-6613-8016
Publons Author ID**:** https://publons.com/researcher/2092112/s-m-rayhanul-islam/
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REFERENCES

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