

Curriculum Vitae

Name : Dr. Jayanta Borah
Designation : Assistant Professor
Specialization: Abstract Differential Equations
Date of Joining TU: 11th December, 2019.



Dr. Jayanta Borah
Assistant Professor
Department of Mathematical Sciences
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Research Interest: Abstract Differential Equations.

Academic Qualifications:

1. M.Sc from Gauhati University, Guwahati, Assam in 2003.
2. Ph.D in Fractional Differential Equations from IIT Guwahati, Assam in 2019.

Details of Employment:

Assistant Professor:

Institute: Tezpur University, Assam
Joining: 11th December 2019.

Assistant Professor (Stage III)

Institute: NERIST, Nirjuli, Arunahal Pradesh
Tenure: 07th July 2017—10th December 2019.

Assistant Professor (Stage II)

Institute: NERIST, Nirjuli, Arunahal Pradesh
Tenure: 07th July 2012—06th July 2017.

Lecturer

Institute: NERIST, Nirjuli, Arunahal Pradesh
Tenure: 07th July 2006—06th July 2012.

Publications:

1. Borah, J. and Bora, S. N. Existence of mild solution for mixed Volterra-Fredholm integro fractional differential equation with non-instantaneous impulses, Differential Equations and Dynamical Systems (<http://dx.doi.org/10.1007/s12591-018-0410-1>).
2. Borah, J. and Bora, S. N. Existence of mild solution of a class of nonlocal fractional order differential equation with not instantaneous impulses, Fractional Calculus and Applied Analysis, 22(2), 495-508, 2019.
3. Borah, J. and Bora, S. N. Sufficient conditions for existence of integral solution for non-instantaneous impulsive fractional evolution equation, Indian Journal of Pure and applied Mathematics, 51, 1065–1082, 2020.
4. Borah, J. and Bora, S. N. Non-instantaneous impulsive Fractional Semi linear Evolution Equations with Finite Delay, Journal of Fractional Calculus and Applications, 12(1), 120-132, 2021.
5. Borah, J. and Bora, S. N. Existence results for non-instantaneous impulsive fractional functional differential equation with finite delay, Fractional Differential Calculus, 11(1), 35-53, 2021.

6. Devi, D. and Borah, J. On the solution of nonlinear nonlocal Volterra–Fredholm type hybrid fractional differential equation, Indian Journal of Pure and Applied Mathematics, 2023 (<https://doi.org/10.1007/s13226-023-00462-7>).
7. Barman, T., Borah, J., Chutia, D and Haloi, R. Weighted norm inequalities for one sided vector valued Hardy–Littlewood maximal function on one sided Morrey like spaces, The Journal of Analysis, 2023 (<https://doi.org/10.1007/s41478-023-00602-6>).
8. Devi, D. and Borah, J. Existence of Solutions for a Nonlinear Nonlocal Hybrid Functional Fractional Differential Equations, Rocky Mountain Journal of Mathematics, 53(5), 1459–1467, 2023.
9. Borah, J, Devi. D, Haloi, R. Strong solutions to quasi-linear differential equations with deviating arguments, The Journal of Analysis, 2023 (<https://doi.org/10.1007/s41478-023-00600-8>).

Conference Presentations:

1. Mild solution of a class of nonlocal fractional differential equation, National Conference on Advances in Mathematical Sciences, Gauhati University, Guwahati, December 22–23, 2016.
2. Existence results of fractional functional evolution equation with non-instantaneous impulses, International Conference on Applied and Computational Mathematics, IIT Kharagpur, November 23–25, 2018.
3. Existence results of mild solution of fractional differential inclusion with non-instantaneous impulses, National Conference on Mathematical Sciences and Applications in Science, Engineering and Technology, Rajiv Gandhi University, Arunachal Pradesh, March 25–26, 2019.

Memberships:

1. Life Member, Assam Academy of Mathematics (AAM).
2. Life Member, Indian Mathematical Society (IMS).

Workshop Attended:

1. Application of Mathematical Methods in Physical Problem, SMIT, Sikkim, December 18–23, 2009.
2. Instructional School of Lecturers in Differential Equations and Computations, Jaypee University of Information Technology, Himachal Pradesh, June 04–16, 2012.
3. ATMW Partial Differential Equations of Fractional order, TIFR- Centre for Applicable Mathematics, Bangalore, July 06–18, 2015.
4. TEW on Real Analysis, Linear Algebra and Differential Equations, IIT Guwahati, December 14–19, 2015.
5. Mathematical Analysis and its Applications to Engineering, IIT Guwahati, January 02–04, 2016.
6. NE- Summer Workshop in Analysis and Probability-2016, Rajiv Gandhi University, May 31–June 04, 2016.
7. Pedagogical Training for Mathematics Teachers, Tezpur University, Tezpur, December 25–30, 2019.

8. International Webinar Series on "Advances in Mathematics" organized by Tata Institute of Social Sciences, Tuljapur from 22-27 July 2020.

9. Online Interdisciplinary Refresher Course on Changing Perspectives in Pedagogy organized by Tezpur University during 8-22 October, 2020.