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ResearchGate Profile

EDUCATION

- **The Assam Royal Global University, Guwahati** *Pursuing*
PhD (Fractional Mathematical Modeling)
- **Assam University, Silchar** *2020*
M.Phil. (Fractional Fluid Flow Modeling)
- **CSIR UGC NET** *2016 (June)*
Qualified NET with JRF (Mathematical Sciences)
- **Assam University, Silchar** *2015*
Master of Science (Mathematics) *First class*
- **Gurucharan College, Assam University, Silchar** *2013*
Bachelor of Science (Mathematics Honours) *First class*
- **Ramanuj Gupta Junior College, Silchar** *2010*
Higher Secondary (10+2)th Level (Assam Higher Secondary Education Council) *First division*
- **Emmanuel English High School, Pailapool, Assam** *2008*
Matriculation 10th Level (Board of Secondary Education Assam) *First division*

EXPERIENCE

- **The Assam Royal Global University, Guwahati** *Feb 2021-till date*
Assistant Professor, Department of Mathematics
- **Assam University, Silchar** *July 2017- April 2018*
Guest Lecturer, Department of Statistics
- **Cachar College, Silchar, Assam** *July 2016-May 2017*
Guest Lecturer, Department of Mathematics

RESEARCH INTEREST

- Fractional Calculus and Fractional Mathematical Modeling

MEMBERSHIP OF PROFESSIONAL/SCIENTIFIC BODIES

- Life Member of Assam Academy of Mathematics (AAM)

ADDITIONAL DUTIES AND RESPONSIBILITIES

- Member NAAC Steering Committee, The Assam Royal Global University
- Member RGU Sports Club, The Assam Royal Global University
- Team Head, Sub-venue committee for convocation, The Assam Royal Global University

RESEARCH PUBLICATIONS

- Singha, H.I., Sengupta, S: *Dusty time fractional MHD flow of a Newtonian fluid through a cylindrical tube with a non-Darcian porous medium*; **Journal of Applied Mathematics and Computational Mechanics**; 19(4): 101-114 (DOI: 10.17512/jamcm.2020.4.09)(2020)
- Singha, H.I., Sengupta, S: *Dusty Time Fractional MHD Flow of a Newtonian Fluid through a Cylindrical Tube*; **International Journal on Emerging Technologies**; 11 (2), 610-617.(2020)

WORKSHOPS/CONFERENCES/SEMINARS ATTENDED

- Presented a paper on the topic "*Dusty time fractional MHD flow of Newtonian fluid through a uniform tube*" in the "National conference on Ancient and Modern Mathematics (NCAMM)" (23-24 February, 2019) organized by Department of Applied Mathematics, Maharaja Bir Bikram University, Agartala, Tripura.
- Presented a paper on the topic "*Flow of dusty time fractional Navier-Stokes equation through a tube in presence of magnetic field*" in the "Two days International Seminar on Recent Advances in Mathematical Sciences and their Applications (RAMSA)" (30-31 August, 2018) organized by Department of Mathematics, Surya Sen Mahavidyalaya, Siliguri, West Bengal.
- Participated in "*Annual Foundation School (AFS-II)*" workshop under National Centre for Mathematics (4-30 June, 2018) organized by Department of Mathematics, Assam University, Silchar.
- Attended a "*National conference on Recent Trends in Mathematical Sciences*" (24-26 March, 2017) organized by Department of mathematics, Assam University, Silchar.

FDPs ATTENDED

- Participated the "*Five Days e-Workshop on LaTeX*", organized by the Department of Mathematics, School of Science, GITAM, Bengaluru, India, held from 5th to 9th July 2021.
- Participated the *National Level Workshop on Artificial Intelligence and Machine Learning*" organised by Department of Mathematics, The Assam Royal Global University, Guwahati-35, from March 7 to March 11, 2022.
- Participated "*International Faculty Development Programme on Mathematical Modelling of Biosystems with Special Focus on Epidemiology*" held at Mizoram University during 22 - 27 August, 2022.
- Participated "*5 Days Faculty Development Programme on Advances in Research Methodology*" organized by Royal School of Pharmacy under the aegis of IQAC Cell, The Assam Royal Global University (RGU) from 22nd-26th May, 2023
- Participated "*Online Shor-term Course on mathematical Modelling and Numerical Simulation*" organized by Department of Mathematics, Dr. B.R. Ambedkar National Institute of Technology Jalandhar, India from 22nd-28th July, 2023.
- Participated *One week Faculty Development Programme on "Mathematics and its Applications in Technology and Science"* organized by Department of Mathematics, Madanapalle Institute of Technology and Science, Andhra Pradesh, India from 5th-9th June, 2023.
- Participated *One week workshop on "Research Oriented Teaching Writing (ROTW-2023)"* organized by Department of Electrical Engineering, NIT Jamshedpur, Jharkhand, India from 4th-8th July, 2023.
- Participated *5-Days Workshop on "Research, Academic Writing and LaTeX"* organized by Department of Mathematics, The Assam Royal Global University, India from 20th-24th February, 2023.

CONFERENCES/WORKSHOPS/FDPS ORGANIZED

- **Organized** the *"7 Days Faculty Development Programme on Data Analysis using Machine Learning Software"*, organized by the Department of Mathematics, The Assam Royal Global University from 26th April to 4th May 2023.

TECHNICAL SKILLS AND HOBBIES

Languages Known: English, Hindi, Assamese, Bengali, Manipuri

Software familiar with: L^AT_EX, Mathematica, MATLAB

Operating systems: Windows, Linux

Hobbies: Love to play guitar and sing songs, play badminton.

MSC AND BSC PROJECT STUDENTS GUIDED

- **MSc** : 5 students guided
- **BSc** : 2 students guided

ACHIEVEMENTS

- Qualified CSIR NET for JRF in June 2016