Bikram Dholey

Department of Mathematics
Brainware University, Barasat

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bikram.dholey.563412@gmail.com

OBJECTIVE

- I would want to work in a dedicated professional atmosphere where I can use my knowledge and talents to assist the business to flourish while also improving myself.
- Aspiring for a rewarding teaching and research post in a recognized Institute/University/College in India/Abroad.
- I am excited to interact with and mentor students in order to gain a variety of information and skills in both research and teaching.
- To contribute effectively to the academic community by publishing important research and promote multidisciplinary cooperation.
- To keep informed with evolving trends in mathematics and implement creative ways in instruction and research.
- To foster critical thinking, creativity, and analytical abilities among students through effective teaching approaches.
- To contribute to curriculum creation, student assistance, and academic activities that enhance institutional standards.
- To leverage my analytical mentality and quantitative abilities in addressing real-world scientific and engineering challenges.

ACADEMIC BACKGROUND

Course	College/University	Year	CGPA/%
Ph.D. in Mathematics	Jadavpur University	2025–Present	—
Bachelor of Education (B.Ed.)	Bhaktabala B.Ed. College	2022–24	8.35
Master of Science	Ramakrishna Mission Vivekananda Centenary College	2020–22	9.57
Bachelor of Science (H)	Acharya Jagadish Chandra Bose College	2017–20	74
Intermediate/+2	Tarakeswar Mahavidyalaya	2016	79
High School	Soaluk Azad High School	2014	87

RESEARCH EXPERIENCE

- **Published Papers**
  - The Influence of SH-wave Propagation in a Tri-layered Composite Structure with Interfacial Imperfections | Journal of Vibration Engineering & Technologies | https://doi.org/10.1007/s42417-025-01776-y [2025]
- **Accepted Papers**
  - None
- **Communicated Papers**
  - Propagation of Love-type wave in a Piezoelectric Fiber Composite with Novel Combined Dual-Membrane Interface
  - Shear Horizontal Wave Dynamics in Advanced Functionally Graded FPC Structures Incorporating Twin Conventional Membrane Interface
  - Shear Horizontal Wave Dynamics and Sensitivity Analysis in a Complex Fluid Layer atop a PFRC Half-space Incorporating Two-layer Membranes
- **Supervision of MSc Project | Brainware University** [2023]
  - Guided Marjita Goswami through all stages of her project on "“Morse Theory".

CONFERENCE PRESENTATIONS

- **Shear-horizontal wave dynamics in smart fiber composites with layerwise interfacial imperfections**, Global Assembly for Mathematical Modeling and Analysis (GAMMA)-2025, The ICFAI University Tripura. [Type: Paper Presentation] [June. 2025]
- **Shear Horizontal Wave Dynamics in Smart Porous– Piezoelectric Systems with Electrically Induced Coupled Spring-Type Interface**, 2nd International Conference on Mathematical Analysis and Applications, National Institute of Technology Jamshedpur. [Type: Paper Presentation] [August 2025]

SEMINARS & WORKSHOPS

- **Metric spaces**, Krishna Chandra College. [Type: One week Web-Workshop] [March, 2021]
- **Metric spaces**, Krishna Chandra College. [Type: One week Web-Workshop] [March, 2021]
- **A National Webinar on Epidemiology and Mathematics**, Rahara ramkrishna mission Vivekananda centenary college. [Type: One week Web-Workshop] [July, 2021]
- **Dynamical Systems in Cosmological Studies**, Krishna Chandra College. [Type: International Webinar] [March, 2021]
- **Metric spaces**, Krishna Chandra College. [Type: One week Web-Workshop] [March, 2021]
- **Electronic Waste: Problem, Management & Policies in India**, Acharya Jagadish Chandra Bose College. [Type: Two - Day International Webinar] [August 2020]
- **Fighting COVID-19 through Mathematical Way**, Acharya Jagadish Chandra Bose College. [Type: Two - Day International Webinar] [August 2020]

SCHOLASTIC ACHIEVEMENTS

- CSIR-UGC NET for Junior Research Fellowship (JRF) and Lectureship in Mathematical Sciences, with All India Rank: 159 [Dec. 2024]
- Qualified Written Research Eligibility Test (WRET), Jadavpur University – Mathematics Department [Dec. 2024]
- SVMCM Scholarship in B.Ed. [2022]
- SVMCM Scholarship at PG level. [2020]
- SVMCM Scholarship at UG level. [2017]
- NTSE Scholarship at 10th levels. [2017]
- SVMCM Scholarship at Intermediate Level. [2017]
- Achieved NTSE Scholarship at 8th level. [2012]

WORK EXPERIENCE

- **Assistant Professor | Brainware University** [Sep'22-July'25]
  - Department of Mathematics
  - School of Computational & Applied Sciences
  - https://www.brainwareuniversity.ac.in/

TEACHING AND RESEARCH PLAN

- **Teaching Plan**
  - Develop engaging lesson plans for undergraduate and graduate mathematics courses, incorporating interactive teaching methods, technology, and real-world applications.
  - Mentor students, supervise research projects and foster critical thinking. Design curricula, assess student progress, and contribute to academic program development.
  - Integrate interdisciplinary approaches and promote a collaborative learning environment
- **Research Plan**
  - Investigating wave propagation in smart materials through mathematical modeling and computational simulations.
  - Focus on dispersion analysis, nonlinear wave interactions, and metamaterials for advanced control.
  - Develop analytical and numerical techniques to optimize wave behavior in engineering applications, enhancing material performance in aerospace, biomedical, and structural systems.

RESEARCH INTERESTS

- Solid Mechanics
- Wave Propagation
- Piezoelectricity
- Elastodynamics
- Vibrations
- Smart Materials

RELEVANT COURSES/ TRAININGS

- **Introduction to Abstract and Linear Algebra | FDP** [NPTL]
- **TEW in Analysis and Topology 2023 | FDP** [ATM School]
- **Recent Trends in Biomathematics & Dynamical Systems | FDP** [Mahadevananda Mahavidyalaya]
- **Python 3.4.3 | Training** [IIT Bombay]
- **LaTeX | Training** [IIT Bombay]
- **Number Theory & its Application | FDP** [Gates Institute of Technology]

PROJECTS

- **M.Sc. Project: "Morse Theory" - A tool to study topological structure of smooth manifold. | Satyabrota Kundu** [2020]

SKILLS

- **Programming Languages**: Python, C
- **Tools & Libraries**: Mathematica, Matlab, Matplotlib ,LaTeX

INTERESTS

- Differential Equations
- Wave Propagation
- Graph Theory
- Complex Analysis
- Manifold Theory

EXTRACURRICULAR ACTIVITIES

- National Service Scheme
- Sports

PERSONAL DETAILS

- Name: Bikram Dholey
- Father's name: Basudeb Dholey
- Mother's name: Mita Dholey
- Current Address: Barasat Traders, Vivekananda Sebhashram, Noyapara, Barasat, 700125.
- Permanent Address: Kelepara, Ghargohal, Pursurah, Hooghly, 712414.
- Date of Birth: 11/12/1998
- Nationality: Indian

- Gender: Male
- Marital Status: Unmarried
- Languages Known: Bengali, Hindi, English
- Mobile: 9874795937
- Email: bikram.dholey.563412@gmail.com

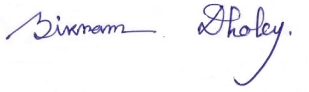
WEB ADDRESSES

- Email: bikram.dholey.563412@gmail.com
- Research Gate: https://www.researchgate.net/profile/Bikram-Dholey
- Orcid: https://orcid.org/0009-0000-5362-6152
- Google Scholar: https://scholar.google.co.in/citations?hl=en&user=D3Z_trYAAAAJ
- LinkedIn: https://www.linkedin.com/in/bikram-dholey-6a67ba161/
- Scopus: https://www.scopus.com/authid/detail.uri?authorId=59667688200
- Web of Science: https://www.webofscience.com/wos/author/record/MYQ-6875-2025
- Vidwan: https://vidwan.inflibnet.ac.in/profile/361592

REFERENCES

- **Gopal Ch. Shit | Professor**
  - Jadavpur University
  - Email: gcshit@jadavpuruniversity.in
- **Kshitish Ch. Mistri | Assistant Professor**
  - Ramakrishna Mission Vivekananda Centenary College
  - Email: kchmistri@gmail.com
- **Amrita Das | Assistant Professor**
  - Polba Mahavidyalaya, University of Burdwan
  - Email: amritadas.ism@gmail.com
- **Satyabrota Kundu | Assistant Professor**
  - Loreto College, University of Calcutta
  - Email: satyacaluniv@gmail.com

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief. I undertake to notify any changes therein at the earliest opportunity.



Name: Bikram Dholey.
Dated: August 3, 2025
Place: Barasat, India.