

Contact Details

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- 9433742010
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 Dumdum, Kolkata, West
 Bengal, PIN 700030

Administrative Work

- 12 years' experience in AICTE approval, MAKAUT Affiliation;
- AISHE, NIRF data submission;
- NAAC Cycle 1, Cycle 2;

Technical Skills

COMSOL C, FORTRAN, Python, MATLAB Arduino Photoshop MS Word, Excel, PowerPoint Windows, Linux

Experience

Teaching: **13 years** Research: **8 Years**

Publication Count

Journal Paper: **05** Conference Paper: **04** Book Chapter: **01**

Avik Ghosh Dastidar

Assistant Professor, Department of Physics Regent Education and Research Foundation Group of Institutions

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Objective

To effectively teach the students of college/university and motivate them from very beginning to contribute towards Research and Development in India through sincere effort.

		Work Experience
•	18/08/2010 to Present	Assistant Professor Department of Physics Regent Education and Research Foundation, Barrackpore, Kolkata • Teach Physics and other subjects
		 Maintain and prepare necessary documents related to affiliation / approval processes for AICTE and other regulatory bodies
	14/01/2010 to 13/08/2010	Senior Faculty Department of Physics St. Peter's Group of Institutions, Sector V, Saltlake, Kolkata
		Teach Physics and allied subjects
	06/01/2009 to 13/01/2010	Senior Research Fellow Jadavpur University, Kolkata
		 Run a global T120 spectral NWP model, named 'Varsha', developed by National Aerospace Laboratories (NAL) in parallel processing mode in a four node Linux cluster.
		 Study a quantitative analysis of the performance of the model for a long period like 10 years over India.
•	25/05/2006 to 05/01/2009	Junior Research Fellow Jadavpur University, Kolkata
		 Perform a detail analysis of the global output of T80 model (a Numerical Weather Prediction model) for the years of 2001 to 2005 operational at NCMRWF, Delhi. Verification of the above output has been done with observed (analysis) data.

Education

PhD, Registered on 25/07/2019

Mizoram Central University, MZU Registration number: MZU/Ph.D./1681 of 25.07.2019 In progress

MCA, 2008

Indira Gandhi National Open University (IGNOU), Delhi First Class (63.28%)

M.Sc. in Physics (Electronics Special Paper), 2005

Jadavpur University, Kolkata Second Class (56.27%)

B.Sc.(H) in Physics, 2001

University of Calcutta, Kolkata Second Class (57.25%)

Higher Secondary, 1998

Scottish Church Collegiate School, Kolkata First Division (73.7%)

Madhyamik, 1996

Ramakrishna Mission Vidyalaya, Narendrapur, Kolkata First Division (78.0%)



Publications

- 1. "Higher order Markov chain models for monsoon rainfall over West Bengal, India." IJRSP, Vol 39, Feb 2010
- 2. "Statistical analysis of monsoon rainfall distribution over West Bengal, India." Mousam, Vol 61, Issue 4, Oct 2010
- "An efficient electrostatic actuation model for MEMS-based ultrasonic transducers with fringing effect", Microsystem Technologies. Springer, Vol 29, P 583–597, Jan 2023 DOI: https://doi.org/10.1007/s00542-023-05412-1
- "Squeeze Film Effect in Surface Micromachined Nano Ultrasonic Sensor for Different Diaphragm Displacement Profiles", Sensors, MDPI, Vol 23, Issue 10, P 4665, May 2023 DOI: https://doi.org/10.3390/s23104665
- "An analytical and FEM simulation-based study of the dependence of capacitance profile on structural parameters of CMUT with and without vent", Microsystem Technologies. Springer, Sep 2023 DOI: https://doi.org/10.1007/s00542-023-05537-3

Conferences

- "Performance of silicon nitride as structural material in MEMS pressure sensors", 2nd International Conference on Mathematical Techniques and Applications (ICMTA-2021), March, 2021
- "Displacement Profile of Micromachined Nano-Electro-Mechanical-Ultrasonic Pressure Sensor: A Comparative Analysis", 2021 IEEE 21st International Conference on Nanotechnology (NANO), July, 2021
- "Dependence of Capacitance Profile on Structural Parameters of CMUT with and without Vent", 5th International Conference on Energy Systems, Drives and Automations, December, 2022
- 4. "Analysing the Effect of Silicon Nitride as Structural Material in Gas Pressure Sensors", 2nd Annual Convention of North East (India) Academy of Science and Technology (NEAST) & International Seminar on Recent Advances in Science and Technology (ISRAST), November, 2020

Book Chapter

Dastidar AG, Maity R, RC, Ghosh D, "Validation of the Theoretical Prediction of Capacitance of Circular Multi-Vented CMUT: A FEM Approach", Synthesis III, 2003, Levant Books, pp. 49-54 ISBN: 978-93-91741-93-8

Awards

Graduate Aptitude Test in Engineering (GATE), India, 2006

PhD Particulars

Topic: "Modeling, Simulation and Analysis of Micro-Electro-Mechanical-Systems Based Ultrasonic Transducer" Supervisor: Prof. R C Tiwari,

Professor, Department of Physics, Mizoram University (A Central

University), Aizawl

Joint-Supervisor: Dr. Reshmi Maity, Associate Professor, Department of Electronics and Communication Engineering, Mizoram University (A Central

University), Aizawl

Date of Registration:

25/07/2019 **Registration No:** MZU/Ph.D./1681 of 25.07.2019 **Coursework Completed:** 12/02/2020 **Coursework SGPA:** 8.67

Key Factors

Hard Working Patience Adaptability Ethics Collaboration Critical Thinking



FDP / Certification

- Embedded Systems-Design Verification and Test (FDP) NPTEL Topper (81%), Jun-Oct 2018
- Solid State Physics NPTEL (81%), Jun-Oct 2018
- 2 Days Instructor Led Live Online Workshop On ML & Al Using Covid-19 Virus Data Analysis
 Finland Labs (A Unit of Revert Technology Pvt. Ltd.)
 In Association with National Social Summit, IIT Roorkee May, 2020
- Introduction and Programming with IoT Boards
 Pohang University of Science and Technology,
 Coursera, May 2020
- Programming for Everybody (Getting Started with Python)

University of Michigan, Coursera, Jun 2020

- Python Data Structures
 University of Michigan, Coursera, Jun 2020
- Using database with Python
 University of Michigan, Coursera, Jun 2020
- Using Python to Access Web Data
 University of Michigan, Coursera, Jun 2020
- **The Joy of Computing using Python** NPTEL (75%), Jan-Apr 2024
- **Python for Data Science** NPTEL (79%), Jan-Feb 2024

Personal Details

Date of Birth:	March 8, 1980
Gender:	Male
Height:	166 cm
Language Known:	Bengali, Hindi, English
Marital Status:	Married
Nationality:	Indian
Hobbies & Interests:	Reading books, Recitation, Music, Travelling, Electronics