

KASTURI MUKHERJEE

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Govt. Housing Estate, D.H. Road,
Kolkata-700038, West Bengal, India

CURRENT POSITION

Head of the Department, Geography
Associate Professor
Adamas University, Kolkata

Since December 2020

EDUCATION

Ph.D. 2020
University of Calcutta, Dept. of Geography
In the topic of “Impact of urban land use change: A case of Barasat Municipality, India”
Supervisor: Prof. Pannalal Das

Master of Geography (Gold Medalist) 2010
Rabindra Bharati University, Dept. of Geography
Specialization: Environmental Geography
Thesis: “Eutrophication-an Environmental Hazard -A Case Study from
Bodortala Village under Baruipur P.S”
Supervisor: Dr. Biswajit Bera

Bachelor of Geography (Honours) 2008
University of Calcutta, Asutosh College, Department of Geography
Economics (pass), Sociology (pass)

WORK EXPERIENCE

Associate Professor Since December 2020
Adamas University, Kolkata

Adjunct Faculty
Digital University Kerala August 2022 – January 2023

Visiting Researcher September 2020 – December 2020
Stockholm Resilience Centre

Assistant Professor, Geography May 2015- September 2020
Adamas University, Kolkata

Trainee Teaching Associate June 02, 2014- May 05, 2015
Indian Institute of Management Calcutta
Assisted in the courses like Indian Economic and Political History, Environment and
Development, Urban Management: Issues and Strategies, Indian Social Structure in

the Post-Graduation Program

Guest Lecturer, Geography

Muralidhar Girls' College

Rani Birla Girls' College

August 2012 – May 2015

February 2012 – May 2014

HONORS AND AWARDS

Core Research Grant

Earth Science (Earth & Atmospheric Sciences)

2022

Gold Medalist

1st ranker in M.A., Rabindra Bharati University.

2011

Best Paper Awarded

A Case Study on Ecosystem Services and Its Impact on Urban Sectors of Barasat Municipality, Geospatial Conclave, Jadavpur University

2020

Impact of Urban Expansion on Thermal Environment -A Case Study of Barasat Municipality, India, National Conference on the Application of Geospatial Technology in Research and Development, Jadavpur University

2018

Eutrophication-an Environmental Hazard” National Seminar on Sustainable Development and Disaster Management, Rabindra Bharati University

2010

QUALIFIED NATIONAL EXAMS

Research Eligibility Test

University of Calcutta

January 2012

UGC-NET

Lectureship

June 2012

PUBLICATION: JOURNAL

Kasturi Mukherjee, Kakali Roy and Baidyanath Pal, 2023, Gender Parity in Urbanizing City: A Case Study of Barasat City, India, *Global Social Welfare*, Springer DOI: 10.1007/s40609-023-00296-5

Bhaswati Roy, Nuruzzaman Kasemi and **Kasturi Mukherjee**, 2023, Identification of Urban Growth Typology and its Association with Thermal Environment: A Study of Siliguri Urban Agglomeration, West Bengal, India, *Journal of the Indian Society of Remote Sensing*, Springer DOI: <https://doi.org/10.1007/s12524-023-01714-z>

Kasturi Mukherjee and Debika Mondal, 2022, Spatial equity in urban facility versus residents' satisfaction: a challenge for the unplanned cities—a case study of Barasat city, India, *GeoJournal*, Springer DOI: 10.1007/s10708-022-10674-9

Kasturi Mukherjee and Pannalal Das, 2018, Modelling the Relationship between Urban Growth Modes and the Thermal Environment-A Case Study of the Barasat Municipality, West Bengal, *Journal of Geography, Environment, and Earth Science International*, DOI: 10.9734/JGEEESI/2018/44047

Kasturi Mukherjee and Ratnadeep Ray, 2017, An Analytical Study on the Effects of LULC Dynamics on Land Surface Thermal Environment: A Case Study on Barasat Municipal Area, North 24 Paraganas, West Bengal, India”, *International Journal of Remote Sensing & Geoscience*, Vol 6(2), pp10

PUBLICATION: CONFERENCE PROCEEDINGS

Debasmita Bhowmick, **Kasturi Mukherjee**, Pratik Dash, Rachita Mondal, 2023, Use of “Local Climate Zones” for Detecting Urban Heat Island: A Case Study of Kolkata Metropolitan Area, India. In *IOP Conference Series: Earth and Environmental Science*, IOP Publishing

Deblina Paul, **Kasturi Mukherjee**, Jitendra Kumar Pandey, Abira Dutta Roy, 2023, Assessing the Urban Environmental Quality: A Case Study of Kolkata Metropolitan Area, India. In *IOP Conference Series: Earth and Environmental Science*, IOP Publishing

Rashmi Chhetri, **Kasturi Mukherjee**, Pratik Dash, Potential Potential Effect of the Changing Urban Climate on Non-Communicable Diseases: A Case Study on Barasat City, India. In *IOP Conference Series: Earth and Environmental Science*, IOP Publishing

Rubesh Mallik, Samudra Roy, Kessang Dikkila Bhutia, Megha Nandi, Pratik Dash, **Kasturi Mukherjee**, Spatio-temporal Analysis of Environmental Criticality: Planned Versus Unplanned Urbanization. In *IOP Conference Series: Earth and Environmental Science*, IOP Publishing

Kasturi Mukherjee, 2020, Delineating fringe by rough-set theoretic approach: a case study on Barasat city, India. In *Journal of Physics: Conference Series*, IOP Publishing

Kasturi Mukherjee, 2019, Delineating Fringe by Global Diversity Value: Case Study on Barasat municipality, India, Delineating fringe by global diversity value: A case study on Barasat municipality, India. In *2019 International Conference on Big Data and Computational Intelligence (ICBDICI)*, IEEE.

PUBLICATION: BOOK CHAPTER

Pratik Dash, **Kasturi Mukherjee**, and Surajit Ghosh, 2023, Flash Flood Susceptibility Mapping of a Himalayan River Basin Using Multi-Criteria Decision-Analysis and GIS, *The Three Poles, Advances in Remote Sensing Technology*, Wiley, DOI: 10.1002/9781119787754.ch17

Kasturi Mukherjee, Nandita Deb, Abira Dutta Roy, Pratik Dash, 2022, Impact of Noise Pollution on Human Health in Barasat Urban Area, West Bengal. In *Sustainable Urbanism in Developing Countries*, CRC Press

Abira Dutta Roy, Munni Debnath Parial, **Kasturi Mukherjee**, 2020, Synergy Between Air Quality, Various Urban Forms, and Land Surface Temperature: A Case Study of Kolkata Metropolitan Area, *Handbook of Research on Resource Management for Pollution and Waste Treatment*, IGI Global

PROFESSIONAL ACTIVITIES

Invited Talk 10+

Editorial Board Member, IOP Conference Series: Earth and Environmental Science, 2021

Reviewer, IOP Conference Series: Earth and Environmental Science, 2021; *Advances in Urbanism, Smart Cities, and Sustainability*, Taylor, and Francis; *Air, Soil and Water Research*, SAGE Publication

Panelist, 3 Days Capacity building program on Climatic Hazards and Financial Resilience, 5-7th October 2021, The National Institute of Disaster Management, India

Panelist, Panel discussion on Climate change and our oceans on World Ocean Day, 2021, Adamas University

Organizing Chairperson, International Conference on Geospatial Science for Digital Earth Observation (GSDEO), March 26-27, 2021

Convener, Faculty Development Programme / Summer Training on Climate Change Analysis using R and Cloud Computation, 19-26 July 2021, Adamas University

Coordinator, Panel Discussion on the Science of Places: Exploring the Career Goals and Competencies of Future Geographers, 31st of May, 2020, Adamas University

Convener, National Webinar, Road Map of Future Geographers, 18th May 2020, Adamas University

Convener, four days National Symposium for Future Geographers, At Adamas University, 3-6th March 2020

Organizing Chair, Celebration of World GIS Day, Adamas University, 22nd November 2019

Convener, “World GIS Day- Exploring the World through GIS”, Adamas University, 15th November 2018

Convener, two days national workshop on “Road Map of Future Geographers: Drone Technology and Geospatial Analysis” Adamas University, March 26th- 27th, 2019

Technical Session co-chair, national conference on the Application of Geospatial Technology in Research and Development, Jadavpur University, 2018

Technical Session chair at 58th ERSO Congress, Places for People: Innovative, Inclusive and Liveable Regions, Cork, Ireland, 2018

Convener, three days' workshop on "Geospatial Data Analysis Using Open Source Software" Adamas University, 17th April to 19th April 2018

ACADEMIC SUPERVISION

No. of Masters Dissertation Supervised – 17, Completed, 10 ongoing
No. of Ph.D. Supervised – 4, Ongoing
Internship – 3 Completed

PROFESSIONAL TRAINING

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|---|------|
| Summer School Indian Statistical Institute | 2019 |
| Workshop on Statistical Methods & R Programming Adamas University | 2019 |
| Workshop on Radar Data Processing Opsis System Pvt. Ltd | 2018 |
| Course on Social Development and Social Policy Indian Institute of Management Calcutta | 2014 |
| Post Graduate Diploma in Applied Remote Sensing and GIS Jadavpur University, CAD centre | 2011 |
| Diploma in Software Engineering NIIT, Kolkata | 2008 |

LANGUAGES KNOWN

English, Bengali, and Hindi.

COMPUTER SKILLS

Remote Sensing & GIS: Arc GIS, Arc-View GIS, Erdas Imagine, MapInfo, AutoCAD
Map3D, Geometica, QGIS, Tnt Mips, Surfer, SAGA GIS

Statistics: SPSS, XLStat

OTHER

Have an interest in Radio Announcing

An Indian Citizen

Date: 06. 07. 2023

Place: Kolkata