# Dr. Debajit Datta

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## Education

| Degree | Year | University |
|---|---|---|
| Ph.D. | 2012 | Indian Institute of Technology Kharagpur |
| M.Sc | 2006 | University of Calcutta |
| B.Sc | 2004 | Presidency College (University of Calcutta) |

## Teaching Experience

Assistant Professor in the Department of Geography, Jadavpur University, Kolkata, India (15 October, 2015 - Present)

Assistant Professor of Geography in Taki Government College**,** West Bengal, India (West Bengal Education Service) from 18.11.2010-14.11.2015

## Industrial Experience (0)

## Field of Specialization

Regional Planning

## Courses Taught/ Teaching

Environmental Geography, Climatology, Landscape Ecology, Urban Geography, Geographical Thought, Statistical Techniques

**Research Area**

Natural Resource Management, Political Ecology, Urbanization and Rural Environmental Change, Ecosystem Services and Payments, Sustainable Tourism

**Experience**

Doctoral Research Fellow: 3 years

Teaching: 10 years

**Conference Papers Published (Since 2015)**

| Title of the paper | Conference | Year | Role | Vol. Number-Page Number |
|---|---|---|---|---|
| Ethnic identity, electoral politics and women: a geographical inquiry of Koch-Rajbanshi sovereignty movements in North Bengal | UGC sponsored National seminar on 'Women empowerment: a third world perspective" | 2017 | Corresponding author | ISBN: 978-93-81037-66-9 (254-264) |
| Humanized landscapes, forest degradation and livelihood losses: a geospatial analysis of forest cover changes in Bankura district of West Bengal | National seminar on 'Remote Sensing and GIS in Environmental Management'. ISBN: 978-81-921692-8-6 | 2017 | Corresponding author | ISBN: 978-81-921692-8-6 (10-19) |

**Journal Papers Published (Since 2015)**

| Title of the paper | Journal | Year | Role | Vol. Number-Page Number |
|---|---|---|---|---|
| An alternative approach to delineate wetland influence zone of a tropical intertidal mudflat using geo-information technology | Estuarine, Coastal and Shelf Science | 2021 | First and Corresponding Author | 253:107308 |
| Long□term monitoring of cropland transformation in Kolkata Metropolitan Area, India using open□source geospatial technologies | SN Applied Sciences | 2021 | Corresponding author | 3:98-117 |
| Insurgencies in Northeast India: the case of the Gorkhaland Movement | Asian Studies: Journal of Critical Perspectives on Asia | 2020 | First and Corresponding Author | 56(1):94-106 |
| Immediate disturbances induced by tropical cyclone Fani on the coastal forest landscape of eastern India: A geospatial analysis | Remote Sensing Applications: Society and Environment | 2020 | Corresponding author | 20(2020):100407 |

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|---|---|---|---|---|
| Typological inventorization and rapid ecological health assessment of the wetlands of Medinipur Coastal Plain, India | Folia Geographica | 2020 | Corresponding author | 62(2):22-47 |
| Avifauna habitability of wetlands in an intensive cultural landscape: insights from the Ichhamati floodplains, India | Environmental Monitoring and Assessment | 2020 | Corresponding author | 192(6):1-16 |
| Geospatial analysis of the effects of tsunami on coral and mangrove ecosystems of Mayabunder in Andaman Islands, India | Brazilian Journal of Oceanography | 2019 | Corresponding author | 67:1-10 |
| Quest for identity: linking ethnicity, electoral politics and violence in Koch-Rajbanshi sovereignty movement of India | Human Geographies-Journal of Studies and Research in Human Geography | 2019 | Corresponding author | 13(1):1-18 |
| Analyzing the effects of afforestation on estuarine environment of river Subarnarekha, India using geospatial technologies and participatory appraisals | Environmental Monitoring and Assessment (Springer) IF: 1.804 | 2018 | Corresponding author | 190(11):645-660 |
| Assessment of mangrove management alternatives in village-fringe forests of Indian Sunderbans: resilient initiatives or short-term nature exploitations? | Wetland Ecology and Management (Springer) IF: 1.508 | 2018 | Sole author | 26(3):399-413 |
| An alternative approach for estimating above ground biomass using Resourcesat-2 satellite data and artificial neural network in Bundelkhand region of India | Environmental Monitoring and Assessment (Springer) IF: 1.804 | 2017 | Corresponding author | 189(11):576-588 |
| Forest structure and soil properties of mangrove ecosystems under different management scenarios: Experiences from the intensely humanized landscape of Indian Sunderbans | Ocean and Coastal Management (Elsevier) IF: 1.696 | 2017 | Corresponding author | 140(2017):22-33 |
| Local tourism initiative in an eastern Himalayan village: sustainable ecotourism or small scale nature exploitation? | Bulletin of Geography: Socio-economic Series | 2015 | First Author | 27(2015):33-49 |
| Evaluating sustainability of community endeavours in an Indian floodplain wetland using multi-criteria decision analysis | Singapore Journal of Tropical Geography (Wiley) IF: 0.638 | 2015 | First Author | 36(2015):38-56 |

**Books Published (0)**

**Awards (2)**

| Awarded by | Award Name | Year |
|---|---|---|
| JU RUSA 2.0 Support to Faculty Members | Travel Grant to attend the 10th IALE World Congress on 'Nature and Society Facing the Anthropocene Challenges and Perspectives for Landscape Ecology at Milan, Italy on 01-05 July, 2019 | 2019 |
| UGC | Travel Grant for College/ University Faculties to attend the Eleventh International Conference on Environmental, Cultural, Economic and Social Sustainability at Copenhagen, Denmark on 21-23 January, 2015 | 2015 |

**Ph.D. Thesis Guidance (7)**

| Name | Title | Index Number | Status |
|---|---|---|---|
| Mansa Dey | A Study of Tropical Coastal Wetlands of Contai-Baleshwar Coastal Stretch | 68/21/Geo/27 | On-going |
| Mrinmoyee Naskar | Brackish Water Aquaculture in Purba Medinipur Coastal Plain | 20/20/Geo./26 | On-going |
| Asit Kumar Roy | Agroecosystem Services of Wetlands | 186/16/Geo./25 | On-going |
| Jibananda Gayen | Changing Ecosystem Health of Wetlands of North 24 Parganas, West Bengal | 172/16/Geo./25 | On-going |
| Shrabana Sengupta | An Integrated Approach for Assessing Sustainability of Urban and Peri-urban Agriculture in Kolkata Metropolitan Area | 173/16/Geo./25 | Submitted |
| Chandreyi Sengupta | The Political Ecology of Koch-Rajbanshi Sovereignty Movements in West Bengal and Assam: Resource, Power and Governance | 112/16/Geo./24 | Awarded |
| Mohana Basu | Mobility of Women with Urbanization and Social Change in Asansol Durgapur Development Area | 231/16/Geo./25 | Awarded |

**M.Phil. Thesis Guidance (1)**

| Name | Title | Registration Number | Status |
|---|---|---|---|
| Jai Gopal Nath Sarkar | Habitat status of Fiddler Crab (Uca rosea) in Junput Mudflat of West Bengal, India | 142850 | Awarded |

**MASTER Thesis Guidance (11)**

05 completed; 06 on-going

**Project Works (6)**

| Title | Amount (INR) | Funding Agency | Time of Initiation | Role | Status |
|---|---|---|---|---|---|
| Development of Integrated Database for Sustainable Land Resource Management at Village Level in Selected Blocks of Darjeeling District, West Bengal | 2,493,400/- | JU RUSA 2.0 | February, 2019 | Joint Coordinator | Completed |
| Assessment of Above Ground Biomass Dynamics of Vegetation Communities for Sustainable Environmental Management along Digha-Sankarpur Coastal Stretch, India using SAR Data | 566,800/- | JU RUSA 2.0 | February, 2019 | Principal Investigator | Completed |
| Spatially Explicit Estimation of Wetland Carbon Stocks in the Contai-Baleshwar Coastal Stretch, India by Integrating Elemental Analysis and Geospatial Technologies | 3,033,800/- | Science and Engineering Research Board, Department of Science and Technology, GoI | December, 2018 | Principal Investigator | On-going |
| Remote Sensing Based Coral Habitat Suitability Mapping and Conservation along Andaman and Nicobar Island | 1,604,000/- | Woman Scientist Scheme-A (WOS-A), Department of Science and Technology, GoI | December, 2017 | Mentor Scientist | Completed |
| Assessment of Ecological Sustainability of Urban and Peri-Urban Agriculture in Kolkata Metropolitan Area | 1,000,000/- | UGC-BSR | March, 2017 | Principal Investigator | Completed |
| Delineation of Urban and Peri-Urban Agricultural Areas in Kolkata Metropolitan Area Based on Crop Type and Crop Health | 50,000/- | JU Research Grant | 2016 | Principal Investigator | Completed |

**Patents (0)**

**Collaborative Programs (0)**

**Invited Lectures (8)**

| Title | Organized by | Venue | Year |
|---|---|---|---|
| Sundarban-Its Livelihood and Sustainability | South Asian Institute for Advanced Research and Development, Kolkata | Webinar | 2020 |
| Climate Change and Urban Environment: Patterns, Externalities and Mitigation | Women's Christian College, Kolkata | Webinar | 2020 |
| Environment and Sustainability: Land, Water and Ecosystem Perspective | Kashipur Michael Madhusudan Mahavidyalaya, Purulia | Webinar | 2020 |
| Climatic Hazards and Resilience | Sree Chaitanya College, Habra | Webinar | 2020 |
| Impacts of Cyclonic Disturbances on the Coastal Areas of Odisha and West Bengal | PCM College, Kolkata | Webinar | 2020 |
| Resilience in Mangrove Management: Experiences from Indian Sundarbans | Global Change Program, JU | Jadavpur University | 2019 |
| Application of Quantitative Techniques in Spatial Planning | Centre of Human Settlement Planning, JU | Jadavpur University | 2018 |
| An Appraisal of the Mangrove Management Alternatives in Village-fringe Forests of Indian Sunderbans: Resilient Initiatives or Short-term Nature Exploitations? | Sripat Singh College, Murshidabad | Sripat Singh College, Murshidabad | 2017 |

**Membership of Learned Societies (5)**

Board member and 'Regional Contact for South Asia' of the Young Geographer Working Group of Asian Geographical Association
Life member of the International Society of Tropical Foresters
Life Member of the IGU Commission of 'Landscape Analysis and Landscape Planning'
Member of the International Association for Landscape Ecology
Life member of the Geographical Society of India, Kolkata
Life member of the Indian Institute of Geographers, Pune

## Orientation/Refresher/QIP Course Attended/Organized (6)

| Course | Sponsor | Venue | Year |
|---|---|---|---|
| Refresher Course on 'Information and Communication Technology' held from 24 August - 5 September, 2020 | UGC | University of Hyderabad | 2020 |
| Short-term training programme on 'Coastal and Ocean Management' held from 28 January – 1 February, 2019 | - | Indian Institute of Remote Sensing, Dehradun, India | 2019 |
| Resource Person in the 'Workshop on Statistical Methods and Techniques of Spatial Analysis' from 11-17 July, 2017 | - | Women's Christian Girls College, Kolkata, India | 2017 |
| GIAN course on 'Soil Moisture and Soil Hydraulic Properties at Micro and Macro-Scales for Water Resources Management' held from 26-30 December, 2016 | - | Indian Institute of Technology, Bhubaneswar | 2016 |
| Interdisciplinary Refresher Course on 'Disaster Management' held from 20 October - 11 November, 2016 | UGC | Jadavpur University | 2016 |
| Resource person in the workshop on 'Block Level Hazards, Risks & Vulnerabilities Assessment' on 12 June, 2015 | Administrative Training Institute, Kolkata | Bongaon Block Development Office | 2015 |
| Short-term course on 'Multivariate Data Analysis' held from 1-6 June, 2015 | - | Indian Institute of Technology, Kharagpur | 2015 |

## Seminar/Conference/Workshop (13)

| Programme Name | Organized by | Venue | Year | Type of Participation |
|---|---|---|---|---|
| Third National Seminar on 'Natural Resource Management for Sustainable Development' | Mizoram University | Mizoram University, Aizawl | 2019 | Paper presentation |
| Tenth IALE World Congress on 'Nature and society facing the Anthropocene: challenges and perspectives' | University of Milano-Bicocca | University of Milano-Bicocca at Milano, Italy | 2019 | Paper presentation |
| Third Ireland India Institute Conference on South Asia, 2019 | Ireland India Institute, Dublin City University | Dublin City University, Ireland | 2019 | Co-author with the presenter |
| International Conference on 'Global Water Crisis: Agriculture and Food Security in the Era of Climate Change' | Aligarh Muslim University | Aligarh Muslim University, India | 2018 | Co-author with the presenter |
| 13$^{th}$ DGSI International Geography Conference on 'Sustainable Rural Development-Geospatial Solutions' | Bangalore University | Bangalore University, India | 2018 | Paper presentation |

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|---|---|---|---|---|
| 14th Biennial Conference of Asian Studies in Israel | Hebrew University of Jerusalem | Hebrew University of Jerusalem, Israel | 2018 | Paper presentation |
| 4th International Seminar on 'Population, Urbanization and Environment: Contemporary Issues and Challenges' | Gour Banga University | Gour Banga University, India | 2018 | Paper presentation |
| NTNU Sustainability Science Conference, 2017 | Norwegian University of Science and Technology | Norwegian University of Science and Technology at Trondheim, Norway | 2017 | Paper presentation |
| International Seminar and 48th Regional Science Conference on 'Rural Habitat, Institutions and Development: Changing Nature and Challenges' | Tripura University | Tripura University, India | 2017 | Paper presentation |
| 9th International Geographical Union (IGU) Conference on 'Land Use Change, Climate Extremes and Disaster Risk Reduction' | IGU and SBS College, University of Delhi | University of Delhi | 2016 | Paper presentation |
| National Seminar on 'Biodiversity Conservation and Sustainable Development' | Indian Statistical Institute | Indian Statistical Institute, Giridih, Jharkhand | 2015 | Co-author with the presenter |
| Eleventh International Conference on Environmental, Cultural, Economic and Social Sustainability | On Sustainability Knowledge Community | Copenhagen, Denmark | 2015 | Paper presentation |

**Session chaired (2)**

| Programme Name | Organized by | Venue | Year | Type of Participation |
|---|---|---|---|---|
| Third National Seminar on 'Natural Resource Management for Sustainable Development' | Mizoram University, Aizawl | Mizoram University, Aizawl | 2019 | Co-chairperson |
| International Seminar and 48th Regional Science Conference on 'Rural Habitat, Institutions and Development: Changing Nature and Challenges' | Tripura University, Agartala | Tripura University, Agartala | 2017 | Co-chairperson (2 sessions) |

**Professional Society Activity (0)**

**Consultancy work / Testing (0)**

**Other Notable Activities (3)**

1. Associate Editor of *Ecological Processes* (Springer)
2. Editorial Board Member of *Sustainable Marine Structures* (Nan Yang Academy of Sciences)
3. Reviewer for *Agriculture, Ecosystems, and Environment; Animal Biodiversity and Conservation; Anthropocene; Arabian Journal of Geosciences; Bulletin of Geography-Socio-economic Series; Ecological Indicators; Environment, Development and Sustainability; Environmental Engineering and Management Journal; Environmental Monitoring and Assessment; Journal of the Indian Society of Remote Sensing; International Forestry Review; Journal of Environmental Management; Journal of Sustainable Development; Ocean and Coastal Management; Pedosphere; Science of the Total Environment; Singapore Journal of Tropical Geography; The Egyptian Journal of Remote Sensing and Space Sciences; Wetland Ecology and Management, Wetlands*