

Curriculum Vitae

Dr. Malay Pramanik



Position: Assistant Professor

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URL: <https://serd.ait.ac.th/faculty/>

Academic Affiliation

- Urban Innovation and Sustainability
- School of Environment, Resources and Development

Academic Qualifications:

- **PhD** (Climate Change and Environment Management), Jawaharlal Nehru University, India.
- **M. Phil.** (Climate Change and Environment Management), Jawaharlal Nehru University, India.
- **M. Sc.** (Geography and Environment Management), Vidyasagar university, India.
- **Urban planning and management**– UES, Calcutta University, India.

Professional Experience

Organization	Designation	From	To
Tata Institute of Social Science	Assistant Professor	May 2021	May 2022
UKRI-GCRF Living Delta Hub Project at Asian Institute of Technology, Bangkok, Thailand	Research fellow	Mar 2020	May 2021
Department of Science & Technology- National Institute of Malaria research	Research Associate	Feb 2019	Feb 2020
Indian Council of Medical Research- National Institute of Malaria research	Research Associate	Dec 2017	Feb 2019

Specialization and Research Interests

- Integrated Geospatial Solutions
- Urban Resilience and Sustainability
- Urban Environment Management
- Urban Logistics and Innovation
- Climate Change and Disaster
- Sea Level Rise and Urban Infrastructure Planning
- Urban modeling, Simulation and Innovative Solutions

Details Course Taught at Tata Institute of Social Sciences:

- Disasters, Hazards and Extreme Events
- Digital Image Processing and Spatial Analysis
- Geoinformatics in Preparedness and Response
- Geospatial Hydrology for Disaster Management

Student Research Supervision: Theses supervised

TISS (2021-2022):

1. Disappearing Arravalis and the increasing trends of desertification in Delhi NCR region, JTSDS, TISS-Mumbai (2021-22).
2. Study of Junglemahal Region in West Bengal in the Context of NITI Aayog's Approach in LWE Area, JTSDS, TISS-Mumbai (2021-22)
3. Risk identification and mapping of Rhino Poaching using Geospatial approach: Case Study of Kaziranga National, JTSDS, TISS, Mumbai (2021-22).

International Federation of Red Cross students (IFRC-TISS Cohort 16):

1. Review the pastoral community coping strategies in response to climate change: the case of Ethiopia, IFRC-TISS, Mumbai (2021).
2. Hydrological drought vulnerability assessment using Geospatial Technology in Malera Sub-county, Bukedea district Uganda, IFRC-TISS, Mumbai (2021).

Selected Publications

Google Scholar (Citations = 708+; h-index = 14; i10-index=18) dated 1 June 2022.

<https://scholar.google.com/citations?user=XjntLcEAAA&hl=en>

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- **Pramanik, M., Szabo, S et al. (2021).** Twin Disasters: Tracking COVID-19 and Cyclone Amphan's Impacts on SDGs in the Indian Sundarbans, *Environment: Science Policy for Sustainable Development*, 63(4). <https://doi.org/10.1080/00139157.2021.1924575>. [Taylor & Francis, Q1-IF: 4.103/2020]

- Mallick, S.K., **Pramanik, M.**, et al., (2021). Understanding Future Urban Growth, Urban Resilience and Sustainable Development of Small Cities using Prediction-Adaptation-Resilience (PAR) Approach, *Sustainable Cities and Society*, 203196. <https://doi.org/10.1016/j.scs.2021.103196> [**Elsevier, Q1-IF: 7.587/2020**]
- Mondal, B., Chakraborti, S. ... **Pramanik, M.**, & Chatterjee, S. (2018). Evaluation of spatial modelling approaches to simulate urban growth dynamics: A case Study on Udaipur city, India. *Geocarto International*. 35(4), 411-433. <https://doi.org/10.1080/10106049.2018.1520922> [**Taylor & Francis, Q1-IF: 4.89/2021**]
- Mondal, B., Dolui, G., **Pramanik, M.**, et al. (2017). Urban expansion and wetland shrinkage by using GIS-based model on East Kolkata Wetland, India. *Ecological Indicators*, 83. 62-73. <https://doi.org/10.1016/j.ecolind.2017.07.037> [**Elsevier, IF: 4.96/2021**]
- Mallick, S.K., **Pramanik, M.**, et al., (2021). Plastic waste footprint in the context of COVID-19: Reduction challenges and policy recommendations towards sustainable development goals. *Science of The Total Environment*. 148951. <https://doi.org/10.1016/j.scitotenv.2021.148951>. [**Elsevier, Q1-IF: 7.963/2020**]
- **Pramanik, M.**, Dash, P. & Behal, D. (2021). Improving outcomes for socioeconomic variables with coastal vulnerability index under significant sea-level rise: an approach from Mumbai city. *Environ. Dev. Sustain.* <https://doi.org/10.1007/s10668-021-01239-w>. [**Springer, Q2-IF: 3.219/2021**]
- **Pramanik, M.**, Szabo, S., et al. (2021). Population health risks in multi-hazard environments: Action needed in the Cyclone Amphan and COVID-19 – hit Sundarbans region, India. *Climate & Development*. <http://doi.org/10.1080/17565529.2021.1889948>. [**Taylor & Francis, Q1-IF: 4.28/2020**]
- **Pramanik, M.** (2016). Impacts of Predicted Sea-Level Rise on Land Use/Land Cover Categories of the Adjacent Coastal Areas of Mumbai Megacity, India. *Environ Dev Sustain.*, 19, 1343-1366. <https://doi.org/10.1007/s10668-016-9804-9> [**Springer, Q2-IF: 3.219/2021**]
- Chaudhary, S.... **Pramanik, M.**, et al. (2021). Land evaluation and sustainable development of ecotourism in the Garhwal Himalayan region using geospatial technology and analytical hierarchy process. *Environ Dev Sustain.* <https://doi.org/10.1007/s10668-021-01528-4>. [**Springer, Q2-IF: 3.219/2021**]
- Szabo, S....**Pramanik, M.**, (2021). Perceptions of an ageing agricultural workforce and farmers' productivity strategies: Evidence from Prachinburi Province, Thailand. *Outlook of Agriculture*. <http://doi.org/10.1177/00307270211025053> [**Sage, Q2-IF: 1.88/2021**]
- Kumar, A., ... **Pramanik, M.** et al. (2021). Watershed prioritization for soil erosion mapping in the Lesser Himalayan Indian basin using PCA and WSA methods in conjunction with morphometric parameters and GIS-based approach. *Environ Dev Sustain.* <https://doi.org/10.1007/s10668-021-01586-8>. [**Springer, Q2-IF: 3.219/2021**]
- **Pramanik, M.**, et al. (2020). Climatic influence on the magnitude of COVID-19 outbreak: a stochastic model-based global analysis. *International Journal of Environmental Health Research*. <http://doi:10.1101/2020.06.02.20120501>. [**Taylor & Francis, Q1-IF: 3.411/2021**]
- Imdad, K.,**Pramanik, M.** (2020). A district-level susceptibility and vulnerability assessment of the COVID-19 pandemic's footprint in India. *Spatio-temporal Epidemiology*, (36). <https://doi.org/10.1016/j.sste.2020.100390>. [**Elsevier, CS: 2.4/2020**]
- Kumar, A., **Pramanik, M.**, ...Szabo, S., (2022). Geospatial Multi-Criteria Evaluation to Identify Groundwater Potential in a Himalayan District, Rudraprayag, India. *Environ Dev Sustain.* [**Springer, Q2-IF: 3.219/2021**]
- **Pramanik, M.**, Udmale, P., Bisht, P., Chowdhury, K., Szabo, S., & Pal, I. (2020). Climatic factors influence the spread of COVID-19 in Russia. *Int. Jour. of Environ. Health Res.* <http://doi.org/10.1080/09603123.2020.1793921>. [**Taylor & Francis, Q1-IF: 3.411/2021**]

- Atul, K., **Pramanik, M.**, et al. (2020). Land evaluation for sustainable development of Himalayan agriculture using RS-GIS in conjunction with analytic hierarchy process and frequency ratio. *J. Sou. Soc. Agriculture Science*. <http://doi.org/10.1016/j.jssas.2020.10.001> [**Elsevier, CS: 9.5/2019**]
- Udmale, P., Pal, I., Szabo, S., **Pramanik, M.**, Large, A. (2020). Global food security in the context of COVID-19: A scenario-based exploratory analysis, *Progress in Disaster Science* (7) <https://doi.org/10.1016/j.pdisas.2020.100120> [**Elsevier, CS: 2.4/2020**]
- **Pramanik, M.**, et al. (2020). El Nino Southern Oscillation as an early warning tool of Dengue prediction in India. *BMC Public Health*, 20, 1498. <http://doi.org/10.1186/s12889-020-09609-1> [**BMC Series-Springer, IF: 3.29/2021**]
- **Pramanik, M.**, et al. (2021). Identification of bio-climatic determinants and potential risk areas for Kyasanur forest disease in Southern India using MaxEnt modelling approach, *BMC Infectious Diseases*, 21, 1226. [**BMC Series-Springer, IF: 3.09/2021**]
- **Pramanik, M.**, Diwakar, A.K., Dash, P., Szabo, S., Pal, I. (2020). Conservation planning of cash crops species under current and future climate in the Western Ghats, India. *Environ Dev Sustain*. <http://doi.org/10.1007/s10668-020-00819-6> [**Springer, Q2-IF: 3.219/2021**]
- **Pramanik, M.**, Paudel, U., Mondal, B., et al. (2017). Predicting climate change impacts on the distribution of the threatened *Garcinia Indica* in the Western Ghats, India. *Climate Risk Management*, 19, 94-105. <http://doi.org/10.1016/j.crm.2017.11.002>. [**Elsevier, Q1-IF: 4.9/2020**]
- Szabo, S., Apipoonyanon, C., **Pramanik, M.**, Tsusaka, T.W., and Leeson, K. (2021) Agricultural Productivity, Aging Farming Workforce, Sustainable Agriculture, and Well-Being: Household Survey Data From Central Thailand, *Frontiers in Sustainable food systems*, 5, 721120.
- **Pramanik, M.** (2016). Site suitability analysis for agricultural land use of Darjeeling district using AHP and GIS techniques. *Model Earth Syst. Environ.*, 2, 1–22. <https://doi.org/10.1007/s40808-016-0116-8> [**Springer**]
- Pal, R., Biswas, S.S., **Pramanik, M.**, Mondal, B. (2016). Landslides and Floods in the Tista Basin (Darjeeling and Jalpaiguri Districts): Historical Evidence, Causes and Consequences, *J. of Ind. Geophysical Union*, 20(2), 209-215. [**IGU, IF: 0.31/2014**]
- Pal, R., Biswas, S. S., **Pramanik, M.**, & Mondal, B. (2016). Bank vulnerability and avulsion modelling of the Bhagirathi-Hugli River between Ajay and Jalangi confluences in lower Ganga Plain, India. *Modeling Earth Systems and Environment*, 2(2), 65. <https://doi.org/10.1007/s40808-016-0125-7> [**Springer**]
- **Pramanik, M.**, Biswas, S. S., et al. (2015). Sea level rise and coastal vulnerability along the eastern coast of India through geospatial technologies. *Journal of Remote Sensing and GIS*. 4, 145. <http://doi.org/10.4172/2469-4134.1000145> [**IF - 1.06**]
- **Pramanik, M.**, Biswas, S., et al. (2015). Coastal vulnerability assessment of the predicted sea-level rise in the coastal zone of Krishna - Godavari delta region, Andhra Pradesh, east coast of India. *Environ. Dev. Sustain*. 18(6), 1635–1655. <https://doi.org/10.1007/s10668-015-9708-0> [**Springer, Q2-IF: 3.219/2021**]
- **Pramanik, M. K.**, 2016. Assessment of the Impacts of Sea Level Rise on Mangrove Dynamics in the Indian Part of Sundarbans Using Geospatial Techniques, *J Biodivers Biopros Dev*. 3 (1). [**Cosmos IF: 4.62**]
- **Pramanik, M. K.**, 2014. Climate change and sea surface temperature: modelling the effects on coral bleaching *J. Earth Sci. Clim. Change*. 5, 235. **IF: 1.16**]

- Biswas, S.S., Pal, R., Mondal, B., and **Pramanik, M. K.**, 2015. Role of Multipurpose Projects on Distribution of Cropping Intensity and Canal Irrigation: A Study on DVC Projects of the Middle Damodar River Valley of West Bengal, **Journal of Environment and Earth Science**. 5(8).
- **Pramanik, M.K.**, 2015. Changes and Status of Mangrove habitat in Ganges delta: case study in Indian part of Sundarbans. **Forest Research**. 4(3). [IF: 1.065]
- Biswas, S.S., Pal, R., **Pramanik, M.K.**, Mondal, B., 2015. Assessment of anthropogenic factors, floods using remote sensing, and GIS on lower regimes of Kangshabati-Rupnarayan River Basin, **India. Int J Remote Sens and GIS**. 4(2), 77–86.
- Pal, R., Biswas, S.S., **Pramanik, M.K.**, Mondal, B., 2015. Effects of Rainfall Variability and Barrage Construction on Discharge and Channel Modification in the Lower Damodar River, India. **Int. J. of Environ. Engin. Res**. 4 (2).
- **Pramanik, M.K.**, 2015, Morphometric Characteristics and Water Resource Management of Tista River Basin Using Remote Sensing and GIS Techniques. **J Hydrogeol Hydrol Eng**. 5, 1. [IF: 2.27]
- **M. Pramanik**, I. Pal, S. Szabo, P. Udmale and M. J. Rana, (2021). A Systematic Analysis of Vietnam's Province Level Household Energy Security Status and its Implication for Sustainable Development Goals. IEEE, 1-8, doi: 10.1109/ICUE49301.2020.9307112. [IF: 1.52]
- Rahman, K., Pal, I., Szabo, S., **Pramanik, M.K.**, Udmale, P. (2021). Disaster Law and Risk Governance Framework in Delta Region: A Case Study of Bangladesh, India and Vietnam. (Book chapter Disaster Resilience and Sustainability, Elsevier)

Approved Research Grants

- **Project (Co-PI):** Risk perception and implication on risk governance for dual disasters Cyclone Amphan and COVID-19 in Kolkata Metropolitan Area (KMA), Rapid Response Fund, Living Deltas Hub, UKRI GCRF, UK. (Oct 2020 – Sep 2021), GBP 6,505.
- **Project (External Researcher):** Climate Resilient Infrastructure for Social Transformation and Adaptation (CRISTA), Climate Innovation Challenge, ADPC and World Bank, Thailand (Jan 2022– Dec 2022), USD 150,000.

Achievements:

a. Scholarship:

Examination passed	Institution	Subject	Year
UGC-NET	UGC	Geography	2012
CBSE-JRF	UGC	Geography	2015
CBSE-SRF	UGC	Geography	2017
Merit-Cum Means Scholarship	Vidyasagar University	Geography and Environment Management	2009-2011
National Scholarship			1998-2009

Maisali Trailokya
Vidyapith, Contai
KSSSS, Contai P.K.
College

b. Awards:

1. **“Miami Winter Symposium 2019 Travel Award”** from **International Union of Biochemistry and Molecular Biology (IUBMB)** as an International travel support in Miami Winter Symposium 2019 on "Evolving Concepts in...& Emerging viral Infections", Date: 27th-30th January 2019, Miami, USA.
 2. **“Early Career Scientist's Award”** from **European Geophysical Union (EGU)** as an International Travel Support in EGU General Assembly Meeting in 2019, Date 7th-12th April 2019, Vienna, Austria.
 3. **“Our Planet Our Health Initiative”** from **‘Welcome Trust’** and **‘The International Society for Urban Health’** as an International Travel Support in ‘IUCH2019’ Meeting in 2019, Date 4th-8th November, 2019, Xiamen, China.
 4. **“Miami Winter Symposium 2020 Travel Award”** from **IUBMB** as an international travel support in Miami Winter Symposium 2019 on "Molecular Mechanisms Linking the Microbiome and Human Health", Date: 26th-29th January 2019, Miami, USA.
 5. **“WOHC2020 fellowship award”** from the **6th World One Health Congress 2020** as a fellowship support for virtual presentation on “advancing science to improve health and security”, October 2020.
 6. **“Best poster award”** from **Elsevier** in 57th International Conference of **Estuarine & Coastal Sciences Association (ECSA, UK)** on “Changing estuaries, coasts and shelf systems - Diverse threats and opportunities”, Date: 3rd -6th September 2018, Pan Pacific Perth, Perth, Western Australia, Australia.
 7. **“Charlie Boyden Award”** from Estuarine & Coastal Sciences Association (ECSA, UK) as a travel grant from to attend **“ECSA57”** in conference in Pan Pacific Perth, Perth, Western Australia, Australia (3rd -6th, September 2018).
 8. **“Young Scientist Award”** from **Department of Science and Technology (DST)** – Science and Engineering Research Board (SERB) as an international travel support in 4th Asian Conference in Geography on "Rising Asia and Our Geography", Date: 6th-10th December 2018, San Yat-Sen University, Guangzhou, China.
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Selected Seminars/Conferences Attended

1. Poster presentation for the topic of **“Climate Change and Increasing Emergence of Nipah Virus: Climate Envelope Model to Understand the Current and Future Distribution Under Different Scenarios”** during “Miami Winter Symposium 2019” on "Evolving Concepts in...& Emerging viral Infections", Date: 27th-30th January, 2019, Miami, USA.
2. Oral presentation for the topic of **“Predicted range shifts and vulnerability to future climate change of *Garcinia indica*, a vulnerable medicinal species to the Western Ghats”** during “1st International Conference on remote sensing and GIS for application in Geosciences”, Date: 11th -13th August, 2017, Department of Geology, Aligarh Muslim University, Aligarh, UP, India.

3. Oral presentation for the topic of “**Climate change induced livelihood vulnerability and its management in transboundary mangrove ecosystems: a case study of Sundarbans**” during “Borders in the Global South”, date: 19th February 2016, CIPOD, School of International Studies, Jawaharlal Nehru University, New Delhi, India.
4. Oral presentation for the topic of “**Biodiversity Decline under Predicted Climate Change Scenario in the Northern Western Ghats: A MaxEnt Approach**” during “39th NAGI IGC on future cities, sustainable development, and Geospatial technologies”, date 5-7th December 2017, Department of Geography, Osmania University, Hyderabad, Telangana, India.
5. Oral presentation for the topic of “**Predicting current and future geographic distribution of the endangered *Garcinia gummi-gutta* species under climate change in the southern Western Ghats**” during “12st International Conference of Deccan Geographical society on environmental changes in South and South-east Asia: Challenges and Prospects”, Date: 24th -26th September, 2017, Department of Geography, Pt. Ravisankar Shukla University, Raipur, Chhattisgarh, India.
6. Oral presentation for the topic of “**Bioclimatic Niches of Endangered *Garcinia Indica* Species on the Western Ghats: Predicting Habitat Suitability under Current and Future Climate**” during “young geographer session of 39th NAGI IGC on future cities, sustainable development, and Geospatial technologies”, date: 5-7th December 2017, Department of Geography, Osmania University, Hyderabad, Telangana, India.
7. Oral presentation for the topic of “**Efficacy of Conservation Strategies for Endangered *Garcinia gummi gutta* species under climate Change in Western Ghats**” during “young geographer session of 12st International Conference of Deccan Geographical society on environmental changes in South and South-east Asia: Challenges and Prospects”, Date: 24th -26th September, 2017, Department of Geography, Pt. Ravisankar Shukla University, Raipur, Chhattisgarh, India.
8. Poster presentation for the topic of “**Coastal vulnerability to the significant sea level rise in the coastal zone of Mumbai**” during “ECSA57” on Changing Estuaries, Coasts, and Shelf Systems: Diverse Threats and Opportunities”, Date: 3rd -6th September, 2018, Perth, WA, Australia.
9. Oral presentation for the topic of “**Conservation strategies for *Garcinia gummi gutta* species under predicted climate in Western Ghats**” during International Conference of IGNOU on “Environmental and Ecological Sustainability: engaging the stakeholders”, Date: 4th -5th October, 2018, SITS, IGNOU, New Delhi, India.
10. Poster presentation for the topic of “**Climate Change and declining species suitability for Endangered *Garcinia Gummi-Gutta*: Predicting habitat suitability and conservation priorities under climate change scenario**” during “The 4th Asian Conference on Geography” on "Rising Asia and Our Geography”, Date: 6th-10th December, 2018, Guangzhou, China.
11. Oral presentation for the topic of “**Sea Level rise and coastal flooding in Mumbai: Causes and Adaptation measures**” during “The 4th Asian Conference on Geography” on "Rising Asia and Our Geography”, Date: 6th-10th December, 2018, Guangzhou, China.

Memberships and Credentials:

1. Estuarine & Coastal Sciences Association, UK (<https://ecsa.international/>)
2. European Geoscience Union, Germany (<https://trader.copernicus.org//myorders/EGU2019-ASG-2018-263>)
3. European Society for Paediatric Infectious Diseases, Scotland, UK (<https://www.espid.org/>)
4. American Society of Microbiology (ASM), USA (<https://www.asm.org/Events/ASM-Microbe/Home>)
5. The International Society for Urban Health (ISUH), USA (<https://isuh.org/>)

6. International Society for Pharmacoeconomics and Outcomes Research (ISPOR), USA (<https://www.ispor.org/>)
7. Indian Society of Remote Sensing, Dehradun, India.
8. Indian Meteorological Department, Pune, India.
9. National Association of Geographers, India (NAGI), Delhi, India.
10. Indian Science Congress Association, Kolkata, India.
11. The Association of Geographical Studies, Delhi, India.
12. Manuscript Reviews (Journals)

- Remote Sensing of Environment
- Global Environmental Change
- Ecological Indicators
- International Journal of Disaster Risk Reduction
- Asia-pacific Journal of Regional Science
- American Journal of Applied Sciences
- Environment Development and Sustainability
- Climate Risk Management
- Climate Services
- BMC Public Health
- International Journal of Environmental Health Research

Date: 1.6.2022

Place: Bangkok, Thailand



Signature