

Curriculum Vitae



Name and Designation:

SASANKA GHOSH

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Research gate account-

(https://www.researchgate.net/profile/Sasanka_Ghosh/)

I. Academic Qualification:

- B.Sc. in Geography (2014) from Barasat Govt. College under West Bengal State University
- M.Sc. in Geography (2016) from Presidency University, Kolkata
- P.hD. (pursuing) from University of Gour Banga, Malda.

II. Research fellowship:

- UGC NET JRF (July 2015)

III. Published Papers in Journals:

1. Das, S., Gupta, A., & Ghosh, S. (2017). Exploring groundwater potential zones using MIF technique in semi-arid region: a case study of Hingoli district, Maharashtra. *Spatial Information Research*, 25(6), 749-756.
2. Ghosh, S., & Das, A. (2017). Exploring the lateral expansion dynamics of four metropolitan cities of India using DMSP/OLS night time image. *Spatial Information Research*, 25(6), 779-789.
3. Ghosh, S., & Das, A. (2018). Modelling urban cooling island impact of green space and water bodies on surface urban heat island in a continuously developing urban area. *Modeling Earth Systems and Environment*, 4(2), 501-515.
4. Ghosh, S., & Das, A. (2019). Urban expansion induced vulnerability assessment of East Kolkata Wetland using Fuzzy MCDM method. *Remote Sensing Applications: Society and Environment*, 13, 191-203.
5. Ghosh, S., & Das, A. (2019). Urban growth modeling of a rapidly urbanizing area using FMCCA model. *Arabian Journal of Geosciences*, 12(6), 218.
6. Das, A., Ghosh, S., Das, K., Basu, T., Das, M., & Dutta, I. (2020). Modelling the Effect of Area-deprivation on COVID-19 Incidences: A Study of Chennai Megacity, India. *Public Health* 185, 266-269.

7. Das, A., **Ghosh, S.**, Das, K., Dutta, I., Basu, T., & Das, M. (2020). (In) visible impact of inadequate WaSH Provision on COVID-19 incidences can be not be ignored in large and megacities of India. *Public Health*, 185, 34-36.
8. Das, A., Das, M., & **Ghosh, S.** (2020). Impact of Nutritional Status and Anemia on COVID-19-Is it a public health concern? Evidence from National Family Health Survey-4 (2015-2016), India. *Public Health*. 185, 93-94.
9. **Ghosh, S.**, Das, A., Hembram, T. K., Saha, S., Pradhan, B., & Alamri, A. M. (2020). Impact of COVID-19 Induced Lockdown on Environmental Quality in Four Indian Megacities Using Landsat 8 OLI and TIRS-Derived Data and Mamdani Fuzzy Logic Modelling Approach. *Sustainability*, 12(13), 5464.
10. **Ghosh, S.**, & Das, A. (2020). Wetland conversion risk assessment of East Kolkata Wetland: A Ramsar site using random forest and support vector machine model. *Journal of Cleaner Production*, 275, 123475.
11. Das, A., **Ghosh, S.**, Das, K., Basu, T., Dutta, I., & Das, M. (2020). Living environment matters: Unravelling the spatial clustering of COVID-19 hotspots in Kolkata megacity, India. *Sustainable Cities and Society*, 102577.
12. **Ghosh, S.**, & Das, A. (2020). Wetland conversion risk assessment of East Kolkata Wetland: A Ramsar site using random forest and support vector machine model. *Journal of Cleaner Production*, 275, 123475.
13. Das, M., Das, A., Sarkar, R., Mandal, P., Saha, S., & **Ghosh, S.** (2021). Exploring short term spatio-temporal pattern of PM_{2.5} and PM₁₀ and their relationship with meteorological parameters during COVID-19 in Delhi. *Urban Climate*, 100944.

IV. Papers Presented in Conferences/ Seminars:

- Presented paper titled *Dynamics of urban growth of megacities of India using DMSP/OLS night time image* at international seminar on Changing Geo- Environmental Processes and Societal Adjustment (International Level) organized by Department of Geography, University of Gour Banga on 30/08/2016.
- Presented paper titled *Analysis of suspended sediment concentration of Teesta river at high flow using MODIS data* at 29th IGI Conference(National level) organized by Indian Geomorphological Institute on 26/11/2016
- Presented paper titled *Fuzzy Cellular- Automata model based urban growth prediction for rapidly growing urban area* at System Dynamics, Human- Nature interaction & Societal Discourse (International level) organized by Department of Geography, The University of Burdwan on 18/11/2017
- Presented paper titled *Fuzzy suitability based urban urban growth modelling using Cellular-Automata Markov-Chain model* at 2nd Regional Science and Technology Congress, 2017 (Regional level) organized by Department of Higher Education, Science & Technology and Bio Technology, Government of West Bengal on 8/12/2017.

- Presented paper titled *Urban expansion induced risk assessment of East Kolkata Wetland using Fuzzy MCDM method* at Population, Urbanization and Environment: Contemporary Issues and Challenges (Regional level) organized by Department of Geography, University of Gour Banga on 22/03/2018.
- Presented paper titled *Groundwater Potential Zone Identification through Integration of Geoinformatics and Machine Learning Techniques with Limited Training Data* at IGU 2020, Burdwan (International level) on Agriculture, Food, Water, Biodiversity and Health in Changing Climate organized by International Geographical Union (IGU)-India on 08/03/2020.
- Presented paper titled *Future Urban Growth and Urban Bio-physical Environmental Quality Degradation Assessment using Cellular Automata and Random Forest-Fuzzy-AHP Ensemble Method* at Two-Day International Webinar on Recent Advances in Environmental Research organized by Department of Geography, University of Gour Banga on 25/09/2020.

V. Training Courses/ Workshops attended:

- *Application of Statistical Softwares in Social Science Research* organized by Department of Commerce, University of Gour Banga from 18/1/2017 to 24/1/2017 (7 days).
- *Geospatial Data Analysis Using Open Source Software* organized by Department of Geohraphy, School of Science, Adamas University from 17/04/2018 to 19/04/ 2018 (3 days).
- *Spatial Modelling and Analysis of Environmental Systems using open source tools* organized by Department of Civil Engineering, IIT Madras (GIAN course) from 11/06/2018 to 23/06/ 2018 (13 days).
- *Geographic Information Systems (GIS) Methods for Flood Risk Management* organized by Water and Environment Division, Dept. of Civil Engineering, NIT Warangal (GIAN course)from 25/07/2018 to 01/08/ 2018 (8 days).
- *Geoinformatics and Geocomputational Modeling for Water Resources Engineering and Environmental Science* organized by Department of Civil Engineering, IIT(ISM) Dhanbad (GIAN course)from 18/09/2018 to 22/09/ 2018 (6 days).

VI. Research Interest:

- I. Urban Geography
- II. Remote sensing application for natural resource management
- III. Geo-spatial modelling

VII. Any other Information:

I. Article reviewed for (Journal)

- Sustainable cities and society- Elsevier (<https://www.journals.elsevier.com/sustainable-cities-and-society>)
- Journal of Cleaner production- Elsevier (<https://www.journals.elsevier.com/journal-of-cleaner-production>)
- Ecological Indicators –Elsevier (<https://www.journals.elsevier.com/ecological-indicators>)
- Science of the total environment (<https://www.journals.elsevier.com/science-of-the-total->

- Urban Climate (<https://www.sciencedirect.com/journal/urban-climate>)
- Journal of Environmental Management (<https://www.journals.elsevier.com/journal-of-environmental-management>)
- Landscape and Urban Planning (<https://www.journals.elsevier.com/landscape-and-urban-planning>)
- Urban Forestry and Urban Greening (<https://www.journals.elsevier.com/urban-forestry-and-urban-greening>)

II. Bibliometric Information (as on 01/09/2021):

1. Citation: 202 (Google Scholar- <https://scholar.google.com/citations?hl=en&user=Ubdd4hIAAAAJ>)
2. Citation SCOPUS: 136
3. 'h' Index: 8 (Google Scholar- <https://scholar.google.com/citations?hl=en&user=Ubdd4hIAAAAJ>)
4. 'h' index SCOPUS: 8
5. IRINS Profile (<http://knu.irins.org/profile/122375>)

III. Session Chaired/co-chaired:

1. Co-chaired a session *at IGU 2020, Burdwan (International level) on Agriculture, Food, Water, Biodiversity and Health in Changing Climate organized by International Geographical Union (IGU)-India on 07/03/2020.*
2. Co-chaired a session *at Two-Day International Webinar on Recent Advances in Environmental Research organized by Department of Geography, University of Gour Banga on 25/09/2020.*

IV. Invited Lecture:

1. Delivered a lecture on *“Defining ‘Urban’: Official Verses Contemporary Approach with Special Reference to India”* at seven days online lecture series in Geography for under graduate students organized by Department of Geography, Netaji Subhas Mahavidyalaya, Haldibari, Coochbehar.
2. Delivered a lecture on *“Geographical perspectives of Satellite image interpretation and DEM analysis”* at four days lecture series on Avenues of Contemporary Geography organized by Department of Geography, Magrahat College, Magrahat, South 24 Parganas.