

CURRICULUM VITAE

Dr. ANURAG BAGADE

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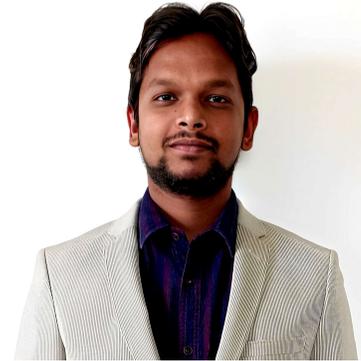
EDUCATION

Ph.D (Architecture and Planning), M.Tech (Urban planning), Visvesveraya National Institute of Technology, Nagpur, Maharashtra, B.E (Civil)

RESEARCH AREA OF INTEREST

Environmental Sustainability, Climate change, Urban Heat Island, Urban and Rural environment, GIS technologies and Spatial planning.

EXPERIENCE



Feb '24-Current Assistant Professor

- **Assistant Professor (Feb 2024 – Present)** at Department of Planning, School of Planning and Architecture, Vijayawada. Faculty coordinator for the course 'Climate Change and Cities', 'Contemporary Planning Theories', 'Environmental Planning and Management Studio I, and 'Advanced Geomatics'

Sept '23 – Feb '24 Environment and Sustainability Consultant

Consultant (Environment and Sustainability) at School of Planning and Architecture, Bhopal. Lead team for GIS plan preparation, geospatial data analysis and projections for the project Regional Planning of Coimbatore and The Nilgiris – 2047. This includes sub-regional plan preparation of 4 districts in Tamil Nadu, India.

Aug '20-Sept '23 Assistant Professor (3 Years)

- **Assistant Professor (Aug 2020 – Sept 2023)** at Department of Environmental Planning, School of Planning and Architecture, Bhopal. Faculty coordinator for the course 'Green Infrastructure', 'Disaster Management', 'Environmental Planning Studio I and II', 'Thesis', 'GIS application in Environmental Planning' and 'Climate change and resilient planning'. Developed research and consultancy proposal pertaining to green infrastructure, carrying capacity and disaster resiliency.

- **Coordinator, National Centre for Spatial Rural Development Planning (June 28, 2023 - Present)** at SPA Bhopal

- **Coordinated with UNICEF India** for developing Climate Resilient Development Plan 2035 as a part of academic studio exercise.

- **Special Invitee**, Syllabus development for Environmental Planning subjects in line with National Education Policy - 2023

- **Urban and Regional Planning Expert (March 2022 – Present)** in consultancy project titled 'Preparation of Regional Plan – Coimbatore and The Nilgiris Regional Plan – 2047.'

- **Member** in Ministry of Panchayati Raj funded Project Revised Gram Panchayat Spatial Development Program for Bilkisganj Gram Panchayat, Madhya Pradesh (**March 2023 – Present**). Leading site visits and GIS based planning proposals for the village. Providing expertise in Village Planning Schemes and its overall development.

- **Member** in Institute Innovation Council (**March 2021 – Present**): Drafted institute start-up policy for students, faculty, staff, and alumina.

- **GIS Expert (April 2021 – June 2021)** in consultancy research project titled 'SDG Monitoring through Earth Observation' for Kochi Municipal Corporation (KMC), Kerala, India' (**April – June 2021**). Researched alternatives to localise SDG with the help of geospatial technologies and deliver the same on the online platform.

Dec '17- Dec '19 Teaching Assistant (2 Year)

Ph.D. fellow with teaching assistantship for subjects including 'Urban Climatology', 'Surveying' and 'Graphic 2' at Department of Architecture and Planning, VNIT, Nagpur.

Dec '15- Dec '17 Research Fellow (3 Year)

Senior research fellow (1 year) and Junior research fellow (2 years) in **DST-SERB funded research project** titled "Evolving strategies for mitigating urban heat island in Nagpur using 'Local Climate Zones' and Human Thermal Stress" supervised by Dr. Rajashree Kotharkar, Principal Investigator at department of Architecture and Planning, VNIT, Nagpur. Carried out data collection, analysis, maintain financial and technical records, manuscript and research report writing.

PAPERS PUBLISHED

1. Biswas, D., & Bagade, A. (2022). Flood Hazard Mapping for Disaster Management: Multisectoral Approach for a Riverine Region. 5th World Congress on Disaster Management, 2022, 2, 120-129
2. Kotharkar, R., Bagade, A., & Singh, P. (2020). A systematic approach for urban heat island mitigation strategies in critical local climate zones of an Indian city. Urban Climate.
3. Kotharkar, R., Bagade, A., & Agrawal, A. (2019). Investigating Local Climate Zones for Outdoor Thermal Comfort Assessment in an Indian City. Geographica Pannonica, 23(4), 319-328.
4. Kotharkar, R., Ramesh, A., & Bagade, A. (2018). Urban Heat Island studies in South Asia: A critical review. Urban Climate.
5. Kotharkar, R., & Bagade, A. (2018). Evaluating urban heat island in the critical local climate zones of an Indian city. Landscape and Urban Planning, 169, 92-104.
6. Kotharkar, R., & Bagade, A. (2018). Local Climate Zone classification for Indian cities: A case study of Nagpur. Urban Climate.
7. Bagade, A., & Kotharkar, R. (2018). Identification and Appraisal of Urban Heat Island Dominant Local Climate Zones. 10th International Conference on Urban Climate/ 14th Symposium on Urban Environment, New York, USA. 6-10 August 2018.
8. Kotharkar, R., & Bagade, A. (2018). Analyzing Outdoor Thermal Comfort and Urban Heat Island during Heat wave period. 10th International Conference on Urban Climate/ 14th Symposium on Urban Environment, New York, USA. 6-10 August 2018.
9. Kotharkar, R., & Bagade, A. (2016), "Local Climate Zone Classification for Indian Cities: A Case study of Nagpur"; 4th International Conference on Countermeasures to Urban Heat Island, Singapore.
10. Kotharkar, R., & Bagade, A. (2016), "Study of Urban Heat Island Effect using Local Climate Zone and Land Surface Temperature using Landsat 7 ETM + for Nagpur, India"; 4th International Conference on Countermeasures to Urban Heat Island, Singapore. 30th May to 1st June 2016.

Other Articles:

Rathore D., Bade S., & Bagade A (2023), "Critical Appraisal of Bio-Cng project under Smart City Mission: A Case of Indore City"; Report article presented at SAAR Compendium, New Delhi, 14th March 2023.

Deossant S., & Bagade A (2023), "Nexus Between Urban Form and its Air Quality At The Local Scale" ILUS - International Land Use Symposium 2023, Urban Analytics for Transforming Cities and Regions: Tools, Methods and Applications, 4th-6th October 2023 at CEPT University in Ahmedabad, India

THESIS GUIDED

1. Biswas, D., 2022, Assessment of spatio-economic aspects of flood disaster for resilience building: a case study of Dibrugarh, Assam (**ITPI MP Best Thesis**)
2. Jain, S., 2022, Assessing impacts of Ken-Betwa inter-linking river project on livelihoods (Co-guided)
3. Oberoi, M., 2022, Investigating urban determinants of human health in a nonattainment city
4. P, Sankar Y., 2022, Enhanced surface water detection through Geo Ai and its application in planning
5. Rathore, D., 2022, Planning to improve accessibility to clean cooking fuels through gender perspective: a case of Indore (Co-guided)
6. Singh, D., 2021, Artificial intelligence and big data to use for vulnerability mapping : in case of Delhi
7. Deosant, S., 2021, Investigating the use of ecological corridors to mitigate the impact of urbanization on

- forests: a case of Nagpur metropolitan.
8. Mosby, S., 2021, Evaluation of ecosystem services to mitigate land degradation through integrated framework. (Co-guided)
 9. Nalme, S., 2021, Prognosis of ecosystem services richness based on land use landcover changes: a case of Indore
 10. Deosant, S., 2021, Examining the effects of local urban morphological features on air quality (**ITPI MP Best Thesis**).

OTHER PROFESSIONAL SERVICES:

- Jury member in ITPI best thesis for Nagpur Chapter, 11 September 2023
- Member of Innovation Council at SPA Bhopal. Contributed to developing institute Startup Policy 2023.
- Capacity development partner with UK university on CREST module.
- Capacity Building Workshop and Training
 - Delivered Expert lecture in 15th ISOLA Conference on 23rd Feb 2024 on Climate sensitive design.
 - Conducted workshop for the software ENVI-met for Ecology and Environment Course for M.Arch Students at Institute of Architecture and Planning, Nirma University on 4th - 6th Sept 2023.
 - Delivered Lecture “Community engagement and participation in climate adaptation planning” in National Online Faculty Development Program on “Architecture Urbanism: Adapting Cities to **Climate Change** and Resilience”, 30th May, 2023 conducted by COA and DIT University, Dehradun
 - Delivered Training on ENVI-met software at Dr Bhanuben Nanavati College of Architecture for Women, Pune during 27th Feb-28th Mar 2023.
 - Organised 3-Day workshop on Climate Sensitive Planning: A real world to ideal future discourse at SPA Bhopal on 5th - 7th Jan 2023.
 - Delivered expert lecture at Indian Town Planning Institute (ITPI), Haryana Chapter (Online), on Towards **Climate Action** – Planning for mitigating urban heat island effect using local climate zones ' on 22 January 2022.
 - Assisted in coordinating international workshop on ‘Transforming Peri-urban Futures’ dated 18-19th January 2022.
 - Coordinated training Programme on Ecosystem Restoration through Spatial Planning for Resilient Settlements on 25-27 August 2021
 - Delivered expert lecture at Professional Development Programme (Online) on 'Applications of Geospatial Technologies in Planning' for the Officials of Directorate of Town and Country Planning, Madhya Pradesh, during 8-12 February 2021.
 - Delivered expert lecture to Spatial Analytics Research Group (SARG) on 14 January 2021.
 - 3 Day training programme on Resilient Settlements-2030 (Exploring Role of Spatial Planning) conducted by SPA Bhopal and NIDM, during 8-10 September 2020.
 - Co-ordinating partner for **climate smart city assessment framework** for the city of Jabalpur, Madhya Pradesh 2020.
- Membership:
 - International Association for Urban Climate
 - Institute of Town Planners 2019-668, AITP

SOFTWARE PROFICIENCY:

Drafting and Mapping : ESRI ArcGIS, AutoCAD, Google Sketchup
 Office tools : MS Office, Advance Excel, Photoshop
 Programming & Language : Linux, Java, Python, R , Html, Xml, JSP, Spring 5
 Statistical and Modelling tools : R, Minitab, Contravolts, AIM Enduse Modelling software, ENVI-met
 Data Analysis Management : MySQL, Machine Learning and Deep Learning

Declaration: All statements made, and information furnished in this document are true and to the best of my knowledge and belief.

Date: 19-03-2024

Dr. Anurag Bagade

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