

Dr. Adithya Bandari



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Current Position

Assistant Professor at the Planning and Allied Departments, School of Planning and Architecture, Bhopal.

Research Areas

Urban Studies, Planning Theory, Urban Infrastructure Planning, Spatial Planning, Settlement Geography, Water Infrastructure Planning, Physical Infrastructure Performance Measurement Systems, and Service Level Benchmarking

Experience

School of Planning and Architecture, Bhopal

Assistant Professor
May 2025 – Present (09 months)

School of Planning and Architecture, Bhopal

Assistant Professor (Contractual)
July 2024 – May 2025 (10 months)

Maulana Azad National Institute of Technology, Bhopal

Assistant Professor (Contractual)
July 2023 – June 2024 (12 months)

Education

Ph.D.	Indian Institute of Technology Roorkee Dissertation: Investigating the Determinants of Domestic Water Supply and Consumption in Indian Cities Advisor: Dr. Shubhajit Sadhukhan	June 2024
M. Tech	Visvesvaraya National Institute of Technology, Nagpur Thesis: Comparative Evaluation of the Wastewater Collection Efficiency & Wastewater Generation- VMC Advisor: Dr. Vinayak S Adane	June 2019
B. Plan	School of Planning and Architecture, Vijayawada Thesis: Assessment of Intra-City Domestic Water Demand Variation, Vijayawada Advisor: Dr. Prasanth Vardhan	May 2017

Professional Memberships

International Water Association (IWA) Member	0004443
Institute of Town Planners, India (ITPI) Associate Member of ITPI (AITP)	AITP/2021/0507
Prime Minister's Research Fellow (PMRF) Indian Institute of Technology Roorkee	2021-2023

Publications

Journal Publications

1. **Bandari, A.,** & Sadhukhan, S. (2025). Variations in domestic water consumption in Hyderabad, India. *Utilities Policy*, 96. <https://doi.org/10.1016/j.jup.2025.102017>
2. **Bandari, A.,** & Sadhukhan, S. (2024). Analysis of spatial pattern of water supply continuity in an Indian metropolis: a case study of Hyderabad. *Urban Water Journal*, 21(7), 839–858. <https://doi.org/10.1080/1573062X.2024.2360180>
3. **Bandari, A.,** & Sadhukhan, S. (2023). Efficiency of non-revenue water reduction in improving water supply performance in Indian metropolises. *Water Supply*, 23(5), 1917–1934. <https://doi.org/10.2166/ws.2023.084>
4. **Bandari, A.,** & Sadhukhan, S. (2022). Investigating the relations between performance indicators of urban water supply in India. *Urban Water Journal*, 19(10), 999–1014. <https://doi.org/10.1080/1573062X.2022.2134040>
5. **Bandari, A.,** & Sadhukhan, S. (2021). Determinants of per capita water supply in Indian cities with low surface water availability. *Cleaner Environmental Systems*, 3, 100062. <https://doi.org/10.1016/j.cesys.2021.100062>

Conference Papers

1. Chaudhary, A., Sinha, V., Ugursandi, L., Jain, P., & **Bandari, A.** (2025). Integrating traditional knowledge systems and modern techniques for disaster risk reduction: A case study approach. *Roorkee Urban Symposium (RUS 2023)*. Indian Institute of Technology Roorkee, Roorkee, India.
2. **Bandari, A.,** Puttappathi, P. V., & Sadhukhan, S. (2023). Domestic water consumption determinants in urban neighborhoods: A case study of Vijayawada, India. *18th International Conference on Environmental Science and Technology (CEST-2023)*. Athens, Greece. <https://doi.org/10.30955/gnc2023.00065>
3. **Bandari, A.,** Kant, R., & Sadhukhan, S. (2023). Spatial Distribution of Urban Population, Population Densities, and COVID-19 Cases in Indian States and Union Territories. *Conference on Spatial Methods for Urban Sustainability (SMUS India 2023)*. Indian Institute of Technology Roorkee, Roorkee, India.
4. **Bandari, A.,** & Sadhukhan, S. (2020). Socio-cultural Dimensions of Sustainable Neighbourhood. *1st International Conference on Urban Science and Engineering (ICUSE-2020)*. Indian Institute of Technology Bombay, Mumbai, India.
5. **Bandari, A.,** & Sadhukhan, S. (2019). Urban Water Management of a Tourist Hill Station: Shimla Planning Region as a Case Study. *8th Asian Pacific Association of Hydrology and Water Resources (APHW) Conference on Emerging Techniques in Urban Water Management*. Indian Institute of Technology Roorkee, Roorkee, India.

Preprints

1. **Bandari, A.,** & Sadhukhan, S. (2022). A Review of Performance Indicators of Urban Water Supply: Global and Indian Scenario. *SSRN Electronic Journal*. <https://doi.org/10.2139/ssrn.4009763>

Creative Publications

1. **Bandari, A.** (2014). I die for my Country. In Stephen Geez and Holly Riordan (Eds.), *Fresh Ink Group Short Story Showcase #1* (ISBN: 1936442175). Fresh Ink Group, LLC, Guntersville, AL.

Thesis Guidance

Scholar Name	Course	Year	Topic
1. Wankhede Atharva Bhagwantrao	M. U. R. P	2024-25	Analyzing the Impact of Intra-city Public Bus Usage on Residential Property Prices: A Case of Nashik, Maharashtra
2. Raghav Baheti	M. U. R. P	2024-25	Analyzing the Influence of Factors Affecting Rental Housing Location Choices in Indian Metropolitan Cities-I: A Case of Indore
3. Charvi Sree	B. Plan	2024-25	Identification of Optimal Park-and-Ride Locations and User Satisfaction Levels for Hyderabad Metro Rail
4. Devrishi Bhardwaj	B. Plan	2024-25	Collection and Delivery Points for E-Commerce Last-Mile Logistics: A Study of Consumer Acceptance using a Unified Theoretical Framework
5. Jatin Mathur	B. Plan	2024-25	Assessment Of Commuter Preference For E-Bike as a Last-Mile Connectivity Mode: A Case Study on Electronic City, Noida
6. Ashutosh Mishra	B. Plan	2024-25	Regeneration Strategies for Industrial and Abandoned Spaces near Waterfronts

Fellowships/Awards/Prizes/Recognitions

Best Poster Award, Institute Research Day Indian Institute of Technology Roorkee	2023
Elite + Gold Certification NPTEL Course of Housing Policy and Planning	2022
Best Poster Award, Institute Research Day Indian Institute of Technology Roorkee	2022
Prime Minister's Research Fellowship (PMRF) Indian Institute of Technology Roorkee	2021
1st Prize at Transform Nagpur Hackathon (TUMI) Hosted at XI Urban Mobility India Conference and Expo at Nagpur by the Ministry of Housing and Urban Affairs	2018
1st Prize at Heritage Hunt Hosted on World Heritage Day at SPA Vijayawada	2018
Vice President of Student Council School of Planning and Architecture, Vijayawada	2016-17
2nd Prize at Grey Matter Quiz Competition and 3rd Prize at Crossfire Debate Hosted at XVII NOSPlan Annual Convention at College of Engineering, Pune	2015
2nd Prize at Brain Scratch Quiz Competition Hosted at XVI NOSPlan Annual Convention at School of Planning and Architecture, Bhopal	2014
2nd Prize at Skit Competition Hosted at XV NOSPlan Annual Convention at IDS, University of Mysore, Mysore	2013
3rd Best Street Play Hosted by AP Environment Connect, Government of Andhra Pradesh	2009
Young Leader at Dreams + Teams Under the Youth Sports Trust and British Council	2008

Creative Works

- Director of the short film "**Smart Exclusion**" displayed at XVII Annual NOSPlan Convention, 2015 at College of Engineering, Pune (<https://www.youtube.com/watch?v=VUZGnJDtf4c>)
- Director and Editor for the VLOG "Urban Dwellers" (<https://www.youtube.com/watch?v=BUJ90yXctn4>)

Software And Computer Languages

ArcGIS Pro, ArcGIS 10.8, IBM SPSS Statistics 27.0, IBM SPSS AMOS 27.0, R Studio, Python, SONY Vegas Pro, GeoDa 1.20

Analytical Skills

Spatial Analysis, Multivariate Analysis, Longitudinal Studies, and Multi-Criteria Decision-making Methods