

Dr. Amit Kumar

Jaglan

PROFILE



Post-doctoral Research Fellow

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I currently serve as a Post-doctoral Research Fellow at the Emerson Centre for Sustainable Studies at TERI School of Advanced Studies (TERI SAS). My work focuses on the IPSA-Kumbh project, analyzing the sewerage impact of the floating population during Maha Kumbh 2025. This initiative is supported by the National Mission of Clean Ganga (NMCG) under the Ministry of Jal Shakti and involves collaborations with IIT-BHU, IIT-Roorkee, TERI, and Hokkaido University.

My expertise spans sustainable architecture, circular economy, regenerative design, waste management, and environmental impact evaluation. I hold a Ph.D. in "Resource Recovery and Sustainability Assessment of Residential University Waste Systems" from IIT Kharagpur, where I assessed waste system sustainability through techno-socio-economic analysis. My academic journey also includes an M.Arch. in Sustainable Architecture from CURAJ and a Bachelor's degree from Rajasthan Technical University.

Throughout my career, I've pursued impactful research and teaching. At SPA-New Delhi, I taught design, construction, and architectural theory while organizing international conferences on smart cities, waste management, and sustainable materials. My work earned recognition, including a MEAE Grant from the French Government to explore Brutalist architecture aesthetics.

PUBLICATIONS

Journal Articles

1. **Jaglan, A.K.**; Sharma Hari Bhakta ; Vinaik, Mansi and Dubey, Brajesh Kumar. *Solid Waste Characterisation and Recycling Potential for a University Campus in a Developing Nation*; Int. J. of Environment and Waste Management. (Submission ID: IJEW-75415. Accepted in Press-2024)
2. **Jaglan, A. K.**; (2024) *Indicator Framework to Assess Circularity in the Waste from Construction and Demolition* in © SPACE Vol 24 no. 3-4, ISSN:0970-0706. The SPA Journal of Planning and Architecture, School of Planning and Architecture, New Delhi, Accepted in Press-2024)
3. **Jaglan, A.K.**; Korde N. *Capturing the Opportunity for Decarbonization in the Construction Industry: Emission-Free, Effective, and Resilient Solutions*. Engineering Proceedings. 2023; 53(1):1. <https://doi.org/10.3390/IOCBD2023-15184>
4. Korde N; **Jaglan, A.K.** *Deconstruct, Don't Demolish: An Overview of Rio de Janeiro in 2016 and London in 2012 as Olympic Host Cities*. Engineering Proceedings. 2023; 53(1):2. <https://doi.org/10.3390/IOCBD2023-15183>
5. **Jaglan, A.K.**; Cheela, V.R.S.; Vinaik, M.; Dubey, B. *Environmental Impact Evaluation of University Integrated Waste Management System in India Using Life Cycle Analysis*. Sustainability 2022, 14, 8361. <https://doi.org/10.3390/su14148361>

1. Sharma, H. B., Vanapalli, K. R., Cheela, V. S., Ranjan, V. P., Jaglan, A. K., Dubey, B., Goel, S., & Bhattacharya, J. (2020). Challenges, opportunities, and innovations for effective solid waste management during and post COVID-19 pandemic. *Resources, Conservation and Recycling*, 105052. (<https://doi.org/10.1016/j.resconrec.2020.105052>)

Conferences:

1. Dhankhar A, Kundu A, Basumatary N, Khune S, Jaglan, A.K. A Mitigating Strategy for Urban Heat Islands: The Biomimicry Approach Case of Delhi. *Proceedings*. 2024; 107(1):5. <https://doi.org/10.3390/proceedings2024107005>
2. Rawat K, Jha K, Jaglan, A.K. Transformational Potential of Urbanization Based on Biomimicry Notions. *Proceedings*. 2024; 107(1):14. <https://doi.org/10.3390/proceedings2024107014>
3. Kanna LV, Garg V, Jaglan, A.K. Recycling Used Textile Waste to Achieve Biomimicry and Promote Circular Economy. *Proceedings*. 2024; 107(1):20. <https://doi.org/10.3390/proceedings2024107020>
4. Jaglan, A.K. Shift in Architecture from Bioinspiration to Biomimicry: Trends and Perspectives. *Proceedings*. 2024; 107(1):10. <https://doi.org/10.3390/proceedings2024107010>
5. 36th Congress of the Committee International d'Histoire de l'Art (CIHA) Conference under the theme C. Appearance and Perception; Neha Korde; Jaglan A. K.; (2024) "Exploring an Experiential Sense of Beauty and Aesthetical Parameters of Tactility in Brutalist Architecture of India" organized having a focus on "Matter Materiality" at Lyon, France from 23rd to 28th June 2024. (Reference number: Accepted with CIHA 202400575)
6. Amit Kumar Jaglan; Ghosh Ratna; Sanyal Pratap Aaditya., The International Conference from Global Cleaner Production Conference (GCPC 2023),"A comprehensive study of food loss and waste generation in relation to food supply chain during CoVID-19" from 9-12 November 2023, Marriott Parkview, Shanghai,China (Reference number: JCPC2023_0449)
7. Jaglan, A. K. (2021). "Primary Online Education - The New Reality for India". "The International Conference on Resilience for Sustainability: Revisiting Management Practices and Strategizing for the future 2021". 26th March 2021, organized by the School of Management & Liberal Studies, The NorthCap University, Gurugram. (Oral Presentation).
8. The International Conference on Waste Management: Jaglan, A. K. (2020) Food Waste Management And Potential Interventions At Education Campuses In India: A Case Study Of Halls Of Residence Of Indian Institute Of Technology Kharagpur, West Bengal. *Recycle-2020*. E- Proceeding -Organized by Indian Institute of Technology Guwahati on 14th February 2020.

Book Chapter:

1. Sharma, P., Jaglan, A.K. (2024). Fire Safety of Urban Villages in Noida: Gap Identification in Policies and Building Norms. In: Nandineni, R.D., Ang, S., Mohd Nawawi, N.B. (eds) *Sustainable Resilient Built Environments. SRBE 2022. Advances in 21st Century Human Settlements*. Springer, Singapore. https://doi.org/10.1007/978-981-99-8811-2_54
2. Chhabra, J., Jaglan, A. (2024). Exploring the Land-Use Efficiency Dynamics and Improvement Potential in the Smart City Mission. In: Nandineni, R.D., Ang, S., Mohd Nawawi, N.B. (eds) *Sustainable Resilient Built Environments. SRBE 2022. Advances in 21st Century Human Settlements*. Springer, Singapore. https://doi.org/10.1007/978-981-99-8811-2_6
3. Sharma, P., Ghosh, R., Tomar, S., Jaglan, A.K. (2024). Benchmarking Existing Fire Safety Norms for Urban Villages in Noida with Best Practices. In: Nehdi, M., Hung, M.K., Venkataramana, K., Antony, J., Kavitha, P.E., Beena B R (eds) *Proceedings of SECON'23. SECON 2023. Lecture Notes in Civil Engineering*, vol 381. Springer, Cham. https://doi.org/10.1007/978-3-031-39663-2_57
4. Paul, M., Jaglan, A.K. (2024). A Strategy Plan for Innovative and Sustainable Construction in Emerging Nations: A Case of India. In: Nehdi, M., Hung, M.K., Venkataramana, K., Antony, J., Kavitha, P.E., Beena B R (eds) *Proceedings of SECON'23. SECON 2023. Lecture Notes in Civil Engineering*, vol 381. Springer, Cham. https://doi.org/10.1007/978-3-031-39663-2_64
5. Dutta, D., Cheela, V. R. S., Jaglan, A. K., Rani, S., Adibhatla, S., & Dubey, B. (2021). Products, processes, environmental impacts, and waste management of food industry focusing on ice cream. In *Environmental Impact of Agro-Food Industry and Food Consumption* (pp.147–168). Elsevier. <https://doi.org/10.1016/b978-0-12-821363-6.00008-4>

Magazine /Newspaper Article

1. Shreyoshi, G. (2020). IIT KGP Study Proposes Pandemic Waste Management Policy – The KGP Chronicle. Retrieved 8 June 2021, from https://kgpchronicle.iitkgp.ac.in/iit-kgp-study-proposes-pandemic-waste-management-policy/?fbclid=IwAR2_V1zOoapjwvyU1iSF3eGIYB4Sfd_wTF4BUtGVNangbRjFzhCt64A1fs
2. Rishikesh News. (2019). Retrieved 8 June 2021, from https://www.amarujala.com/uttarakhand/rishikesh/15610619101-rishikesh-news149?src=fb_share&fbclid=IwAR1jafJbkhkqGEqSgzkjbrSnL4MzMiu345kWrYeYRRCDehcpi65QcGvmho (Rishikesh News', 2019)
3. Rao P S N, Dewan A, Matai Khushal and Jaglan, A. K. (2022) Statue of Unity YOJANA December 2022 (YE-2141/2022)