

Urban and Territorial Planning Researcher specialising in Spatial Planning, Territorial Management, GIS and Spatial Analytics

LinkedIn

ORCID

Scopus

Google Scholar

ResearchGate

*“Urban planner and postdoctoral researcher specialising in spatial planning, territorial management, GIS, spatial analytics, urban accessibility, and sustainable regional development. My research integrates quantitative spatial analysis with planning theory and governance to investigate how urban and territorial systems influence sustainability, resilience, mobility, and socio-spatial equity. I have developed an internationally recognised research profile through collaborations across **Europe**, the **Middle East**, **Africa**, and **South Asia**, combining methodological innovation with policy relevant research and university teaching.”*

Research Areas:

- Spatial Planning and Territorial Management
- Urban Accessibility and Sustainable Mobility
- Territorial Governance and Planning Policy
- Urban and Regional Planning
- Urban Morphology and Space Syntax
- Smart Cities and Digital Urbanism
- GIS and Spatial Analytics
- Climate Adaptation and Urban Resilience

Research Metrics:

- 13 peer reviewed journal articles, including majority in Q1 WoS journals
- Scopus citations: 59
- 6 peer reviewed book chapters
- Google Scholar citations: 99
- 11 peer reviewed conference proceedings, including Scopus indexed
- h-index: 5

Software skills

- **Geospatial & Spatial Analysis:** QGIS, ArcGIS, ERDAS, Global Mapper, DepthMapX (Space Syntax), Fractalyse,
- **Statistical & Data Analysis:** R-Studio, SmartPLS, SPSS, Agent-based Modelling.
- **Urban Planning & Design:** AutoCAD Map 3D, Mappuzzle, Revit, Lumion 3D, Google SketchUp, Adobe Suite
- **Qualitative Research & Tools:** Questionnaires, Interviews, Grounded Theory, MS Office, Power BI
- **AI tools for Planning:** ESRI Geo AI, Google Earth Engine, UrbanFootprint, Autodesk Forma, Autodesk Spacemaker, CityEngine, Mapbox, Keplr.gl

CURRENT POSITION(S)

- Research & Development Scientist (Postdoctoral Fellow): University of Cagliari, **Italy**
- Climate and Urban Sustainability Consultant, Bantu Studio Design & Research, **Spain & Africa**

EDUCATION

2020 – 2024

Ph.D. in Urban and Territorial Planning – mark: **9.11/10 CGPI**, August 9, 2024, RCG School of Infrastructure Design and Management, **Indian Institute of Technology Kharagpur**, India
Thesis: *“Morphological Assessment of Built Environment and its Impact on Water Usage in the Indian Context”*

2017 – 2019

Master in Architecture (Urban Regeneration) – mark: **8.52/10 CGPI**, *Distinction (Honours) with gold medal*, June 28, 2019, F/o Architecture and Ekistics, **Jamia Millia Islamia**, New Delhi, India
Thesis: *“Regenerating Balance between the Water Systems and Human Settlements: A Case of Bagjola khal in Kolkata, West Bengal, India”*

2012 – 2017

Bachelor in Architecture – mark: **9.325/10 CGPI**, June 20, 2017, *Honours with silver medal*, Department of Architecture, ZHCET, F/o Engg. & Tech., **Aligarh Muslim University**, India
Thesis: *“Kolkata Museum of Modern Arts (KMoMA), Kolkata, West Bengal, India”*

TEACHING & PEDAGOGICAL EXPERIENCE

Teaching, Extension and Knowledge-Transfer Activities

18.10.2024 – 30.01.2026	Invited Lecturer , DICAAR, Faculty of Engineering and Architecture, University of Cagliari, Italy . - UG & PG Erasmus students of European Union on – Urban and Regional Sustainability: Smart Cities and Ecosystem Services in Planning (16 contact hours). - PhD evaluation committee member. - Workshop for PhD students at Department of Architecture, UNiCA, Italy – Research Writing and Practical Implications of Dynamic Urban Modelling Tools in Planning (15 contact hours).
01.05.2025 – 31.05.2025	Guest lecturer , Department of Architecture and Design (DAD), University of Genoa, Italy . Topic: Fractal Analysis in Urban Planning with Prof. Giampiero Lombardini & Prof. Chiara Garau (3 contact hours).
07.12.2020 – 20.03.2024	Teaching Assistant , Ranbir and Chitra Gupta School of Infrastructure Design and Management, Indian Institute of Technology Kharagpur, India . Courses on: - Infrastructure Performance & Management Workshop with PG students (72 contact hours). - Design & Evaluation Laboratory with PG students (36 contact hours). Co-supervised M.Tech thesis focused on transit corridor development & sustainable city design in urban India.
07.12.2020 – 30.04.2022	Teaching Assistant , Department of Civil Engineering, Indian Institute of Technology Kharagpur, India . Course on: Engineering Drawing and Computer Aided Graphics with UG students (48 contact hours).
24.07.2023 – 13.10.2023	Teaching Assistant , National Programme on Technology Enhanced Learning (NPTEL) course for Geographic Information Systems (GIS) in collaboration with Indian Institute of Technology Madras, India . Conducted a 24-hour International online certification course of Remote sensing & GIS.
19.07.2022 – 27.06.2023	Teaching Assistant , Department of Civil Engineering, Medinipur Sadar Govt. Polytechnic, India . Course on: Minor AutoCAD Project for 60 contact hours to 3rd and 4th semester students.
18.04.2022 – 27.06.2022	Teaching Assistant , Department of Architecture, Faculty of Engineering, Zakir Hussain College of Engineering and Technology, Aligarh Muslim University, India . Course taught on: History of Architecture theory classes, including Greek, Roman, Baroque, & Renaissance styles of Architecture for UG students (18 contact hours).

Course-Specific Teaching and Supervision

Studio / Design Teaching	- Infrastructure Performance & Management Workshop (72 hrs) - Design & Evaluation Laboratory (36 hrs) - AutoCAD project supervision - History of architecture
Digital / Technical Teaching	- GIS/Remote sensing (NPTEL) - Spatial Analytics and Science (Space syntax) workshop - Urban fractal tools and techniques - Dynamic Urban Modelling workshops
Supervision	- Assessing the Temporal Dynamics of Urban Expansion and Land Surface Temperature: A Multi-Decadal Analysis of Navi Mumbai Metropolitan Region, India - Role: Co-supervisor Institution: IIT Kharagpur Year: 2022 – 2024 Thesis - Construction 3D Printing for Disaster Relief - Role: Co-supervisor Institution: IIT Kharagpur Year: 2022 – 2024 Thesis - Modelling Attributes of Tourism: Case of Auroville, India - Role: Co-supervisor Institution: IIT Kharagpur Year: 2022 – 2024 Thesis

RESEARCH EXPERIENCE & SCIENTIFIC PROJECTS

02.10.2024 – Present	Research & Development Scientist (Postdoctoral Fellow) at the University of Cagliari, Italy – Department of Civil, Environmental and Architectural Engineering (DICAAR) - Project: Investigate governance tools to improve urban and regional accessibility in Sardinia. - Research focus: Governance of regional accessibility and sustainable mobility through GIS, spatial analytics, and smart city platforms.
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- Project grant: € 250,000
 - Key Contributions:
 - Developed spatial accessibility models for Demand Responsive Transport.
 - Integrated GIS datasets into the Snap4City platform.
 - Evaluated governance strategies for regional connectivity.
 - Produced evidence supporting sustainable tourism and territorial accessibility.
- 10.07.2025 – 10.09.2025 Visiting Researcher at the University of Porto, Portugal** – CEGOT Research Center, Department of Geography, Faculty of Arts
- Project: From Ports to People: Reconfiguring Urban Access for Smart Cities in Porto and Cagliari (PORT2PEOPLE).
 - Research focus: Comparative analysis of urban accessibility, port-city integration, and spatial morphology to support sustainable metropolitan planning.
 - Project grant: € 30,000
 - Key Contributions:
 - Applied space syntax and GIS techniques to evaluate accessibility around the port regions of Porto and Cagliari.
 - Undertook comparative analyses of metropolitan spatial structures and urban integration.
 - Investigated relationships between urban morphology, accessibility, and socio-spatial equity.
 - Strengthened international research collaboration between Portuguese and Italian institutions.
- 02.01.2020 – 09.08.2024 Doctoral Researcher at the Indian Institute of Technology Kharagpur, India** – Ranbir and Chitra Gupta School of Infrastructure Design and Management
- Project: PMRF Research Project proposal.
 - Research focus: Urban morphology, water sustainability, and spatial planning using quantitative spatial analysis and mixed-method research.
 - Research grant: € 30,000
 - Key Contributions:
 - Developed an interdisciplinary research framework linking urban morphology with household water use.
 - Applied GIS, fractal analysis, space syntax, structural equation modelling, and cluster analysis to investigate urban systems.
 - Designed questionnaires, conducted field surveys, and integrated qualitative and quantitative datasets.
 - Disseminated research through peer-reviewed publications, conferences, and stakeholder engagement.
- 05.01.2021 – 01.01.2024 Prime Minister Research Fellow (PMRF) at the Indian Institute of Technology Kharagpur, India** – Ranbir and Chitra Gupta School of Infrastructure Design and Management
- Project: Morphological Assessment of Built Environment and its Impact on Water Usage in the Indian Context.
 - Research focus: Implementation and dissemination of doctoral research through competitive national research funding.
 - Research grant: € 40,000
 - Key Contributions:
 - Led implementation of research activities supported through India's Prime Minister Research Fellowship.
 - Managed research planning, budgeting, reporting, and dissemination throughout the fellowship.
 - Presented annual research progress to interdisciplinary academic and governmental evaluation panels.
- 02.01.2020 – 31.12.2021 Project Assistant at Indian Institute Technology Kharagpur, India** – Ranbir and Chitra Gupta School of Infrastructure Design and Management
- Project: Transit Oriented Development (TOD): Developing an Integrated Housing and Transport Model – International Project of SPARC (Scheme for Promotion of Academic and Research Collaboration) with Queen's University, Belfast, UK: (1528) (Submitted: 10.11.2023).
 - Research focus: Transit-oriented development, housing, and transport integration through international collaborative research.
 - Research grant: € 150,000
 - Key Contributions:
 - Contributed to an international research project investigating integrated housing and transport models.

- Conducted literature reviews and supported empirical research on transit-oriented development.
- Assisted in questionnaire development, data collection, technical reporting, and publication preparation.

PROFESSIONAL & APPLIED PLANNING EXPERIENCE

01.06.2026 – Present	Policy Advisor , in collaboration with UN-HABITAT, Kingdom of Saudi Arabia • Project: Transfer of Development Rights (TDR): Mechanisms to Protect Green and Environmentally Sensitive Areas in KSA (2026). • Performed Activities: Conducted evidence validation, international benchmarking, governance assessment, and implementation framework review for a policy-oriented case study on Transfer of Development Rights as a complementary instrument to Urban Growth Boundaries in Saudi Arabia.
01.03.2026 – Present	Climate and Urban Sustainability Consultant , Bantu Studio Design & Research, Spain & Africa • Projects: Spatial plans for 6 cities in Northern Ghana, Africa; Rwanda Green City Kigali, Africa. • Performed Activities: Contributed to urban planning reports, supported spatial layout design and documentation, feasibility study, and assisted in the development of planning proposals addressing functional and socio-spatial requirements.
30.09.2019 – 30.12.2019	Urban Planner , Beyond Built Pvt. Ltd., New Delhi, India • Assignment: Badshahpur Canal Redevelopment into a Public Recreational Space Project at Gurugram, Delhi National Capital Region, India • Performed Activities: Detailed site assessment, urban design report and execution on site, drawings and layout for landscaping on site.
01.06.2017 – 03.06.2019	Architect , The Studio – Axis Design, New Delhi, India • Assignment: S.S Craft Industrial Building Design, Sonika Tractors Industrial Building Design, Nidhi Auto Industrial Building Design, Residential building design in Noida, India. • Performed Activities: Conceptual drawing, design development (including large-scale projects), sanction drawings, presentation drawings, working drawings and details for execution.

EDITORIAL & PEER REVIEW ACTIVITIES

06.2026 – Present	Scientific Editor – Elsevier (Social Sciences & Humanities Open; World Development Sustainability)
03.2023 – Present	Editorial Board Member – International Journal of Sustainable Development Research
08.2026 – Present	Applied Geography (Elsevier): Q1 , IF: 7.4
12.2025 – Present	Scientific Reports (Springer Nature): Q1 , IF = 3.9
11.2025 – Present	Journal of Asian Architecture and Building Engineering (Taylor & Francis): Q2, IF = 1.6
11.2025 – Present	Carbon Balance and Management (Springer NATURE): Q1 , IF = 5.8
11.2025 – Present	Humanities and Social Sciences Communications (Springer NATURE): Q1 , IF = 3.6
10.2025 – Present	Environmental Monitoring and Assessment (Springer NATURE): Q2, IF = 3
06.2025 – Present	Land Use Policy (Elsevier): Q1 , IF = 5.9
06.2025 – Present	Landscape and Urban Planning (Elsevier): Q1 , IF = 9.2
10.2023 – Present	Sustainable Cities and Society (Elsevier): Q1 , IF = 11.7
06.2023 – Present	Journal of the Urban Planning and Development Division (ASCE): Q1, IF = 2.53
03.2023 – Present	Proceedings of EASTS (J-Stage): SJR = 0.25
03.2023 – Present	Heliyon (Elsevier): Q1 , IF = 3.776
03.2023 – Present	npj Urban Sustainability (Springer Nature): Q1 , SJR = 3.19
02.2023 – Present	npj Ocean Sustainability (Springer Nature): Q1 , SJR = 1.5

AWARDS AND ACCOMPLISHMENTS (INCLUDES GRANTS AND FELLOWSHIPS)

03.06.2025	Winner of Young Researchers Mobility Programme (MGR25) : Awarded research grant (Application 16811) for travelling & conducting research at the University of Porto (Portugal) . Funded by the Autonomous Region of Sardinia with funds from Regional Law no. 7 of 7 August 2007 "Promotion of Scientific Research and Technological Innovation in Sardinia". Also recognised under the European 'HR Excellence in Research Award'.
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17.07.2024	Winner & awarded research grant: L. 30.12.10 N. 240 – Code 47A-24, DR 13.05.2024 n. 765, published on 15.05.2024 Area 08 - Civil Engineering and Architecture, SC 08/F1 - SSD ICAR/20 – funded by the Italian Ministry, Next Generation EU, and the University of Cagliari.
28.12.2022	Commendable Performance was attained in the PMRF annual research review in December 2022. Classified as one of the top 8% of researchers by MHRD, Govt. of India (out of 2500 PMRF students).
06.01.2021	Prime Minister Research Fellowship (PMRF) , 2021, with a total grant of 40,000 EUR : A competitive selection based on professional skills and research proposal comprising only 500 students among 60 top public institutes of India and considered "India's most prestigious research fellow award").
02.01.2020	Institute Assistantship (PhD Scholarship) , 2020, with a total grant of 30,000 EUR for doctoral studies at the Indian Institute of Technology Kharagpur, India.
2019 - 2020	Top 25 thesis of the DAIDA Thesis Awards 2019-2020 by Institute of Housing and Urban Development Studies, Erasmus University Rotterdam, Netherlands.
28.06.2019	Gold Medallist , 2019, for securing the first position in M.Arch (Urban Regeneration) at Jamia Millia Islamia, India.
20.06.2017	Silver Medallist , 2017, for securing the second position in B.Arch (Architecture) at Aligarh Muslim University, India

PROFESSIONAL QUALIFICATIONS

2017 – 2027 Member of **Council of Architecture, India** – Architect's License no.: CA/2017/88104

SCIENTIFIC PUBLICATIONS (* = corresponding author; # = presenter)

Journal Articles

Published

01. **Alam, T.** (2026). Governance as the determinant of NbS feasibility: A spatial diagnostic framework for urban watersheds in Kolkata. *Environmental Development*, 60, 101539. <https://doi.org/10.1016/j.envdev.2026.101539>
02. **Alam, T***, Saraiva, M., & Garau, C. (2026). Aligning Transit Provision with Urban Morphology: A Diagnostic Assessment of Porto and Cagliari. *Cities*, 178, 107306. <https://doi.org/10.1016/j.cities.2026.107306>
03. **Alam, T***, Dastoum, M., Askarizad, R., & Garau, C. (2026). Morphological and Fractal Diagnostics for Sustainable Transport Planning in Sensitive Tourism Landscapes. *Sustainable Cities and Society*. 143, 107365. <https://doi.org/10.1016/j.scs.2026.107365>
04. **Alam, T.** (2026). Integrating Space Syntax and Bathtub Flood Modelling to Assess Accessibility Impacts of Sea-Level Rise in Copenhagen's Historic Core. *Journal of Environmental Management*. 397 (128314). <https://doi.org/10.1016/j.jenvman.2025.128314>
05. Garau, C. & **Alam, T***. (2026). Scaling Urban Complexities using Space Syntax and Fractal Analysis: The Sardinian Cities in Italy as a case study. *Journal of Urban Design*, 1–20. <https://doi.org/10.1080/13574809.2026.2629313>
06. **Alam, T***, & Banerjee, A. (2026). Predicting significant urban attributes based on elevated water stress using K-Means clustering. *Urban Water Journal*, 1–17. <https://doi.org/10.1080/1573062X.2026.2639350>
07. **Alam, T.** (2026). Revitalizing Blue Infrastructure in Indian Cities: A Comparative Study for Climate Resilience. *Journal of Sustainable Water in the Built Environment: ASCE*. <https://doi.org/10.1061/JSWBAY/SWENG-704>
08. Dastoum, M*, **Alam, T.**, Askarizad, R., & Garau, C. (2026). Assessing Socio-Spatial Equity in Access to Coastal Areas of Italian Island Cities. *TeMA Journal of Land Use, Mobility and Environment*, 21–36. <https://doi.org/10.6093/1970-9870/13323>
09. **Alam, T***, & Banerjee, A. (2024). Investigating urban morphological drivers of household water use in developing economies: A structural equation model approach. *Environment and Planning B: Urban Analytics and City Science*, 52(5). <https://doi.org/10.1177/23998083241284824>
10. **Alam, T***, & Banerjee, A. (2024). Impact of Urban Morphology on Transportation Preferences in Fostering the Sustainable Development of Emerging Urban Centers in South Bengal. *Journal of the Eastern Asia Society for Transportation Studies*, 15, 690–707. <https://doi.org/10.11175/easts.15.690>
11. **Alam, T***, & Banerjee, A. (2023). Analyzing the Urban Form in Suburban Areas of the South Bengal Region Using Built Fractals. *Journal of Urban Planning and Development: ASCE*. 149 (4). <https://doi.org/10.1061/JUPDDM.UPENG-4543>
12. **Alam, T***, & Banerjee, A. (2023). Characterizing land transformation and densification using urban sprawl metrics in the South Bengal region of India. *Sustainable Cities and Society*, 104295. <https://doi.org/10.1016/j.scs.2022.104295>

13. **Alam, T***, & Banerjee, A. (2021). Rapid Transit-Oriented Morphological Transformations in Indian Cities: A Case of Kolkata Metro. *Sustainable Urban Mobility: Opportunities and Challenges in Developing Countries: Institute of Town Planners India*. <https://doi.org/10.5281/zenodo.8321753>

Under Review (awaiting publication)

14. **Alam, T***, & Singh, P. (2026). Climate-Resilient to Commercialised: Visualising Cultural Shifts in Housing Typology of Kullu, India. *Facilities*. [Revision Submitted].
15. Garau, C. & **Alam, T***. (2026). Comparative Fractal and Configurational Analysis of Island Transport Networks in Sardinia and Sicily. *Journal of Urbanism: International Research on Placemaking and Urban Sustainability*. [Under Review].
16. Babapoor, A*, Ricci, L., & **Alam, T.** (2026). Path-Dependent Urban Expansion in Arid Cities: A Multi-Decadal Remote Sensing Analysis and ANN–CA–Markov Modelling of Saudi Arabian Cities (1984–2034). *City and Environment Interactions*. <https://doi.org/10.21203/rs.3.rs-8447461/v1> [Preprint].
17. **Alam, T***, Dastoum, M., Askarizad, R. (2026). Beyond Density: Evaluating the Spatial Coherence of Urban Densification Policy through Street Network Accessibility and Urban Heat Resilience. *Landscape and Urban Planning*. [Under Review].
18. **Alam, T.** (2026). Urban Form, Landscape Systems and Climate Resilience: A Systematic Review and Spatially Integrated Framework. *Urban Climate*. [Under Review].

Book Chapters

19. **Alam, T.**, Plaisant, A., Garau, C*. (2027). Urban Artificial Intelligence as a Meta-Modelling Framework: Repositioning AI in Urban Analysis and Planning. In: Gervasi, O., et al. *Computational Science and Its Applications – ICCSA 2026 Workshops. ICCSA 2026. Lecture Notes in Computer Science*, vol 16765. **Springer**, Cham. https://doi.org/10.1007/978-3-032-30536-7_37
20. **Alam, T***, Garau, C. (2026). Evaluating Geometric and Structured Fractal Analysis Methods to Determine the Optimal Approach for Urban Road Network Assessment. In: Gervasi, O., et al. *Computational Science and Its Applications – ICCSA 2025 Workshops. ICCSA 2025. Lecture Notes in Computer Science*, vol 15895. **Springer**, Cham. https://doi.org/10.1007/978-3-031-97651-3_6
21. **Alam, T.** (2025). Comparing Anthropogenic Water Risks from Climate Change in London and Kolkata. In: Marques, B., Ruivo, C., Leite Viana, D., Vieira Vaz, J. (eds) *Formal Methods in Architecture. FMA 2024. Digital Innovations in Architecture, Engineering and Construction*. **Springer**, Cham. https://doi.org/10.1007/978-3-032-02782-5_27
22. **Alam, T***, Shukla, S., Banerjee, A. (2025). Analyzing Diverse Urban Forms Across Kolkata's Urban Agglomeration. In: Achari, A., Bhatia, H., Nagraath, A., Rane, N.L., Pande, C.B. (eds) *Environmentally Sustainable and Socially Resilient Urban Development and Management*, 767–786. **Springer**, Cham. https://doi.org/10.1007/978-3-031-92850-5_32
23. **Alam, T.** (2021). Futuristic Urbanism of eco-sensitive zone of India: A case study of Kolkata region. *Sustainable Climate Action and Water Management*, 303–309. https://doi.org/10.1007/978-981-15-8237-0_25
24. **Alam, T.** (2020). Impact of Tourism on Local Communities: A Case of Nalanda, Bihar. In: Irshad, Q. *Urban Development - Philosophies, Principles, and Practice.*, Vol. 1(1) ISBN: 978-81-948211-4-4, pp. 193 - 218. Jamia Publication House. <https://doi.org/10.5281/zenodo.8379568>

Books

25. Garau, C., & **Alam, T***. (2026). *From Urban Form to Urban Performance: Dynamic Modelling Approaches for Spatial Planning*. **Springer Nature**, Switzerland. [Submitted]
26. **Alam, T***, Das, R., & BS, Manoj. (2026). *Morphologies of Access: Urban Form and the Life-Course City*. Routledge, **Taylor and Francis**, England. [Under Progress].

Proceedings

27. **Alam, T***, Plaisant, A., Garau, C*. (2027). Urban Artificial Intelligence as a Meta-Modelling Framework: Repositioning AI in Urban Analysis and Planning. In: Gervasi, O., et al. *Computational Science and Its Applications – ICCSA 2026 Workshops. ICCSA 2026. Lecture Notes in Computer Science*, vol 16765. **Springer**, Cham. https://doi.org/10.1007/978-3-032-30536-7_37
28. Babapoor, A*, Ricci, L., & **Alam, T***. (2026). Urban Sprawl Dynamics in Saudi Arabia's Major Cities: Data-Driven Evidence from 1984 to 2024. *Urban Regeneration and Sustainability (URS) - 7th Edition*. IEREK Publications. Rome, Italy [Upcoming].
29. **Alam, T***, Saraiva, M., & Garau, C. (2026). Urban form, accessibility, and cultural change: Insights from comparative spatial analysis. In *SUPTM 2026 conference proceedings (Sciforum, 142015)*. <https://doi.org/10.31428/10317/24346>

30. **Alam, T.**, Askarizad, R., Dastoumi, M^{*}, Plaisant, A., & Garau, C[#]. (2026). Fractal models for public transport optimisation: Facilitating sustainable tourism access to "Cala Mariolu" in Sardinia (Italy). In R. De Lotto et al. (Eds.), *INPUT 2025* (Lecture Notes in Civil Engineering, Vol. 826, pp. 449 to 460). **Springer**. https://doi.org/10.1007/978-3-032-18822-9_37
31. **Alam, T[#].**, & Garau, C. (2025). Evaluating Geometric and Structured Fractal Analysis Methods to Determine the Optimal Approach for Urban Road Network Assessment. In: Gervasi, O., et al. *Computational Science and Its Applications – ICCSA 2025 Workshops. ICCSA 2025. Lecture Notes in Computer Science*, vol 15895. **Springer**, Cham. https://doi.org/10.1007/978-3-031-97651-3_6.
32. **Alam, T[#].** (2025). Comparing Anthropogenic Water Risks from Climate Change in London and Kolkata. In: Marques, B., Ruivo, C., Leite Viana, D., Vieira Vaz, J. (eds) *Proceedings of the 7th International Symposium on Formal Methods in Architecture (7FMA)*, Porto, 2024. **Springer**, Cham. https://doi.org/10.1007/978-3-032-02782-5_27
33. **Alam, T[#].**, & Banerjee, A. (2023). Evaluation of Urban Typologies and Land Affordability Surrounding Core City in Kolkata Urban Agglomeration. *Book of Abstracts. Conference of the International Seminar on Urban Form (ISUF)*. Belgrade, Serbia. <https://doi.org/10.5281/zenodo.14245425>.
34. **Alam, T[#].**, & Banerjee, A[#]. (2023). Impact of Urban Morphology on Transportation Preferences in Fostering the Sustainable Development of Emerging Urban Centers in South Bengal. In *Proceedings of the 15th International Conference of Eastern Asia Society for Transportation (EASTS'2023)*. Shah Alam, Malaysia; EASTS. <https://doi.org/10.11175/easts.15.690>.
35. **Alam, T[#].**, & Banerjee, A. (2022). Deciphering urbanization and spatial disparity in South 24 Parganas district of West Bengal, India. *Proceedings of the 58th ISOCARP World Planning Congress*. Brussels, Belgium. <https://doi.org/10.47472/zkjaabc>.
36. **Alam, T[#].**, & Banerjee, A. (2021). Changing Urban Morphologies in TOD of Indian Cities. Oral Presentation at the *International Conference on Sustainable Urban Mobility- SUMo2020 (ITPI Bengal Chapter)*, Kolkata, India. ISSN: 0537-9679 **[Awarded Best Presentation]**
37. **Alam, T[#].** (2019). Impact of Anthropogenic Activities on Natural Resources: A Case of Water in Kullu Region, Himachal Pradesh. *Conference proceedings of Architecture for Masses: Ekistics*. Vol. 1 (1), ISBN 978-8193774946, Jamia Publication House.

International conferences and presentations

38. **Alam, T[#].**, Plaisant, A., Garau, C^{*}. (2026, June 30 – July 3). Urban Artificial Intelligence as a Meta-Modelling Framework: Repositioning AI in Urban Analysis and Planning. *The 26th International Conference on Computational Science and Its Applications*. Braga, Portugal.
39. Garau, C[#]. & **Alam, T^{*}.** (2026, June 10 – 12). Reframing Intelligent Urbanism: Artificial Intelligence as an Interpretative Layer in Spatial Analysis and Planning. *XXVII National Conference of the Italian Society of Urban Planners*. Milan, Italy.
40. **Alam, T[#].**, Saraiva, M., & Garau, C. (2026, Jan 20 – 22). Urban Form, Accessibility, and Cultural Change: Insights from Comparative Spatial Analysis. 3rd Conference on Future Challenges in Sustainable Urban Planning & Territorial Management. Cartagena, Spain.
41. Saraiva, M[#]., **Alam, T.**, & Garau, C. (2025, Nov 19 – 21) Socio-spatial vulnerability in the city of Porto and its relationship with the morpho-functional structure. The 15th Portuguese Geography Congress. Évora, Portugal.
42. Dastoum, M., **Alam, T.**, Askarizad, R., Congiu, T., Campisi, T., & Garau, C[#]. (2025, September 11 – 12). Equitable access to coastal areas of Italian island cities: A comparative study of socio-spatial equity. In *Living and Walking in Cities (LWC 2025): Smart mobility and shared urban spaces (27th International Conference)*. Brescia, Italy.
43. **Alam, T[#].**, & Garau, C. (2025, June 30 – July 3). Evaluating Geometric and Structured Fractal Analysis Methods to Determine the Optimal Approach for Urban Road Network Assessment. *The 26th International Conference on Computational Science and Its Applications*. Istanbul, Turkey.
44. Garau, C[#]. & **Alam, T^{*}.** (2025, June 18 – 20). Mapping the City: Assessing the Suitability of Space Syntax and Fractal Models for Analysing Urban Forms. *XXVII National Conference of the Italian Society of Urban Planners*. Milan, Italy.
45. **Alam, T[#].** & Garau, C. (2025, April 10 – 12). Enhancing Accessibility: Exploring Urban and Regional Connectivity Possibilities in Sardinia, Italy. International conference 2nd edition Accessibility and Inland Mobility Advancement Strategies (AIMAS). Petralia Soprana, Sicily, Italy.
46. Askarizad, A[#]., Dastoum, M., **Alam, T.**, & Garau, C. (2025, April 4). Reimagining Healthier Cities: Post-Pandemic Urban Design and the Paradox of Social Connectivity vs. Distancing. *Basic, Translational, and Clinical Research, Driven by Covid-19 Pandemics*. Cagliari, Sardinia, Italy. **[Awarded Best Presentation]**
47. **Alam, T[#].** (2024, December 3–6). *Comparing anthropogenic water risks from climate change in London and Kolkata* [Conference presentation]. 7th Symposium Formal Methods in Architecture, Ordem dos Arquitectos – Secção Regional Norte (OA-SRN), Porto, Portugal.
48. **Alam, T[#].** (2024, June 23 – 28). Comparing Anthropogenic Water Risks from Climate Change in London and Kolkata. *Water Science Conference*. St. Paul, Minnesota, USA.

49. **Alam, T[#].** (2024, January 24 – 26). Regional Spatial Justice: Role of Urban Typologies Surrounding Core City in Kolkata Urban Agglomeration. *Twentieth International Conference on Environmental, Cultural, Economic & Social Sustainability*. Aveiro, Portugal. https://cgscholar.com/cg_event/events/S24en/proposal/69472
50. **Alam, T[#].** (2023, July 5 – 15). Urban Morphology: An Integrated Approach towards Dynamic Urban Futures. Oral Presentation at the *AESOP PhD Workshop and 35th Annual Congress*, Poznan and Lodz, Poland.
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PERSONAL INFORMATION

Gender	Female
Mother tongue(s)	Bengali, Hindi, Urdu (native speaker)
Other Languages (*)	English, Arabic, Punjabi, Nagamese, Portuguese (basic, currently learning).

References available on request.