

## Mani Dhingra

PhD researcher | Ex DAAD research scholar | Urbanist and architect

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<https://scholar.google.co.in/citations?user=y7MY09sAAAAJ&hl=en>

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### ACADEMIC QUALIFICATIONS

Year	Examination	University/Board	CGPA/Percentage
2015 - 2021	Ph.D. thesis submitted – Methodology to assess smartness quotient inherent in traditional Indian settlements	Department of Architecture and Regional Planning, Indian Institute of Technology (IIT), Kharagpur, India	Waiting for review from external examiners
2013 - 2014	Master's thesis under guidance of Prof. (Dr.) Subrata Chattopadhyay (IIT Kharagpur) & Prof. Dipl. Ing. Markus Neppl (KIT Karlsruhe)	German Academic Exchange Program (DAAD IIT Masters Sandwich Program)	N.A.
2012 - 2014	Masters of city planning/ M.Tech. in urban and regional planning	Department of Architecture and Regional Planning, Indian Institute of Technology (IIT), Kharagpur, India	9.53/10 (Institute Silver-batch topper)
2006 - 2011	Bachelors of Architecture	National Institute of Technology, Jaipur, India	8.93/10 (Gold Medalist - batch topper)
2005 - 2006	Senior Secondary Examination	Central Board of Secondary Education, Ajmer region	90.67 %
2003 - 2004	Secondary Examination	Central Board of Secondary Education, Ajmer region	94.20 % (State Merit List)

### EXPERIENCE: PROFESSIONAL & VOLUNTEER

#### Department of Architecture and Regional Planning, IIT Kharagpur

*Teaching assistant and senior researcher*

*July '15 – June '21*

- **Preparation and Assistance of seminars, lectures and evaluation** for Masters and Bachelors programme for subjects such as Engineering/ Architecture Drawing, Climatology, Housing and Community Planning, Basic Design, Planning Seminars and Architectural Design
- **Conduct research** on relevant themes in the domain of urban planning, environment, social sciences etc.
- **Assistance** in scientific report writing, editorial works, preparing technical presentations and seminars

#### Haryana State Industrial Infrastructure and Development Corporation, New Delhi

*Planning Consultant for proposed greenfield cities*

*Nov '18 – Nov '19*

- **Project title** - Preparation of Master Plan 2040 for New Cities adjoining Gurugram, Faridabad and Sonapat
- **Technical supervision, advisory and procurement** related roles for high level government functionaries such as Chief Minister's office, Haryana, India
- **Evaluating, facilitating and monitoring** the master planning stages undertaken by the appointed master planning consultants (AECOM, India and SCP, Singapore)
- **Acquisition and preparation of spatial dataset** for the planning team
- **Assisted state government** in taking informed decisions on various matters raised from time to time

#### Delhi Development Authority, New Delhi

*Assistant Director*

*July '18 to Oct '18*

- **Supervision and planning tasks** related to Master Plan Delhi 2020 for Zone F
- **Digitization** of cartographic data and neighborhood level facilities on GIS
- **Responding to RTIs** filed by the general public

**Freelance consultant***Urban Planner**Jan '08 – till now*

- **Preparation and assistance** of housing schemes, landscape planning, institutional, residential and commercial projects
- Archino Consultants, Alwar; 3D constructions, Alwar; Bhawani Verma & Associates, Jaipur and Shirish Beri Associates, Kolhapur

**Integrated Research & Action for Development, New Delhi***Research Associate, climate change and urban development division**July '14 – June'15*

- **NGO and center of excellency** under ministry of urban development, India
- **Stakeholders' consultation, focus group discussions and primary household surveys** in slums & hill communities of Himalayas
- **GIS mapping of temporal and spatial changes** of ecosystem assets, disaster prone areas & threats to local communities
- **Geo-spatial and statistical data analysis** to identify urban hotspots and vulnerability assessment
- **Preparation of draft & final research reports, knowledge dissemination and project deliverables**

**Karlsruhe Institute of Technology, Germany***Research scholar under international student exchange program**Sep '13 – Mar'14*

- **Documentation of Karlsruhe planning**, under Prof. Rob Van Gool
- **Climate change adaptation and mitigation plan** for Oststadt Living Quarter in Karlsruhe

**State Innovation Council; Government of Rajasthan***Planning Intern**May '13 – Jun '13*

- **Assessment report of inner-city renewal projects** under JNNURM for Ajmer-Pushkar Region under the mentorship of district collector & magistrate IAS Vaibhav Galriya, Ajmer
- **Primary and secondary surveys** followed by **data analysis**
- **Submission of report and presentation** to high level state government committee

**CONTINUING EDUCATION & SKILLS**

<b>Certificate courses and skills</b>	<b>CGPA/Percentage</b>
Sustainability strategies, design and ESG frameworks	completed
16th IIRS Outreach Programme on Geospatial Technologies for Urban Planning by Indian institute of remote sensing and Indian space research organization	86.67%
Compulsory Coursework for PhD- Project Engineering and Management, Financing Infrastructure Projects and Decision Modelling	10/10
Open learning campus course: Turn Down the Heat: Why a 4°C Warmer World Must be Avoided by World Bank Group	-
Massive Open Online Course (MOOC): Disasters and ecosystems- Resilience in changing Climate by United Nation Environment Program and Cologne University of Applied Sciences	Completed leadership and expert tracks
Academic Courses on urban conservation, climatology, history of architecture, architectural drawing, planning workshop, regional analysis and programming	-
A2 level German Language, KIT, Karlsruhe	A (top 10%) as per ECTS, US equivalent
<b>Research interest:</b> Sustainable urban development, smart cities, livable and inclusive urban planning, built environment characteristics, social research methods, fuzzy logic-based computation, spatial analysis, text analytics, space syntax, climate change, disaster resilience and risk reduction, ESG frameworks for sustainability , biomimicry, natural capitalism, policy analysis, regenerative economy	
<b>Software skills:</b> ArcGIS 10.5 (pro-version and desktop), QGIS, AutoCAD, DepthMap, R, Python, MATLAB, IBM SPSS, Adobe Photoshop, Revit, 3D Max, MS Office for data analysis and report writing.	

## ACHIEVEMENTS & ACCOLADES

- Awarded **Best Planning Student by WB-ITPI in Kolkata**
- Awarded with **Institute Silver Medal, IIT Kharagpur, MCP Batch Topper 2012-14**
- Recipient of **DAAD Scholarship for Masters Sandwich Program 2013-14**
- **3<sup>rd</sup> position for paper presented on “Urban sprawl and its smart management”** in national symposium On ‘managing lands in urban fringes: controlling urban sprawl’ in Kolkata
- Awarded with **Gold Medal, MNIT Jaipur, B.Arch Batch 2006-11**
- Received **2<sup>nd</sup> position in MNIT Pavilion Design with Recyclable and Collapsible Material**
- Received **13<sup>th</sup> Nyati Rathi Fellowship Award for best student in B.Arch**
- Birla White Soul Stirring Design Entry – **2<sup>nd</sup> Position at College level**
- Received Mamraj Agarwal **Rastriya Puruskar for State Merit List** by Her Excellency Mrs. Pratibha Patil

## PUBLICATIONS, CONFERENCES & WORKSHOPS

Book chapter ‘Geospatial assessment and identification of inherent smart attributes of traditional neighborhood-level urban communities: a case study of Alwar walled settlements in North India.’ for the edited volume entitled Smart Cities and Smart Communities: Empowering Citizens through Intelligent Technologies under the theme of Smart Community Planning	Submitted
Dhingra, M., & Chattopadhyay, S. (2021). A systematic text-analytics-based meta-synthesis approach for smart urban development. International Journal of Urban Planning and Smart Cities (IJUPSC), 3(1).	In press
Dhingra, M., & Chattopadhyay, S. (2021). A fuzzy approach for assessment of smart socio-cultural attributes of a historic urban landscape: Case study of Alwar walled city in India. Sustainable Cities and Society, 69(August 2020), 102855. <a href="https://doi.org/10.1016/j.scs.2021.102855">https://doi.org/10.1016/j.scs.2021.102855</a>	2021
Dhingra M, Chattopadhyay S. Fuzzy Approach for Assessment of Smart Urban Attributes of Traditional Urban Systems in India. In: Jain M, Ramamurthy A, Tarafadar AK, Mohamed AR, Chndeli FA, Vardhan P, editors. INTERNATIONAL CONFERENCE ON RESILIENT & LIVEABLE CITY PLANNING (RLCP – 2020) -Transforming Urban Systems -. Virtual Mode: Department of Planning, School of Planning and Architecture, Vijaywada, Andhra Pradesh, India; 2021. p. 323–6.	Feb 12 <sup>th</sup> , 2021
Interview on Sustainability and the DAAD: Our contribution to the 2030 Agenda published on DAAD Alumni web portal with title “For me, ‘smart’ means sustainable, liveable, socially inclusive”, can be accessed from <a href="https://www.alumniportal-deutschland.org/en/members/alumni-portraits/article/germany-alumni-mani-dhingra-sustainability-india.html">https://www.alumniportal-deutschland.org/en/members/alumni-portraits/article/germany-alumni-mani-dhingra-sustainability-india.html</a>	2021
Special ISOCARP-UNESCO Event, “Towards Sustainable Cities We Need: An Obligated Way to Save Life on Our Lovely Planet”: a follow up of the 2016 Durban Congress “Cities we Have vs. Cities We Need” around the Sustainable Development Goals in cooperation with the United Nations Educational, Scientific and Cultural Organization (UNESCO) at Portland, Oregon, USA	Oct. 23 <sup>rd</sup> , 2017
Dhingra, M., & Chattopadhyay, S. (2017). Exploring the Real Smartness in an Urban Context through a deductive meta-synthesis approach (Quest to the Real Urban Smartness). 53 <sup>rd</sup> ISOCARP Congress. CONF. Portland, Oregon, USA	Oct 24 <sup>th</sup> - 27 <sup>th</sup> 2017
Dhingra, M. & Chattopadhyay, S. (2017). “Exploring the Real Smartness in an Urban Context through a deductive meta-synthesis approach, ISOCARP. (2017). October 24-27, 2017. In H. Wang & S. Ledwon (Eds.), Proceedings: Smart Communities (pp. 642–652). Portland, Oregon: ISOCARP.	2017
Dhingra, M., Kumar, M., Chattopadhyay, S., Singh, M. K., & Chattopadhyay, S. (2017). City, Culture and Society Macro level characterization of Historic Urban Landscape: Case study of Alwar walled city. City, Culture and Society, 9, 39–53. <a href="https://doi.org/10.1016/j.ccs.2016.10.001">https://doi.org/10.1016/j.ccs.2016.10.001</a>	2017
Dhingra, M., Singh, M. K., & Chattopadhyay, S. (2016). Rapid Assessment tool for traditional Indian Neighbourhoods: a Case Study of Alwar walled city in Rajasthan. Sustainable Cities and Society, 26, 364–382. <a href="https://doi.org/10.1016/j.scs.2016.06.015">https://doi.org/10.1016/j.scs.2016.06.015</a>	2016
Dhingra, M., & Chattopadhyay, S. (2016). Advancing Smartness of Traditional Settlements- Case Analysis of Indian and Arab old cities. International Journal of Sustainable Built Environment, 5, 549–563. <a href="https://doi.org/10.1016/j.ijsbe.2016.08.004">https://doi.org/10.1016/j.ijsbe.2016.08.004</a>	2016
Advancing Smartness of Traditional Settlements- Case Analysis of Indian and Arab old cities. (2016). In Ajman 4 <sup>th</sup> International Environment Conference (AIEC2016). CONF.	March 3 <sup>rd</sup> to 5 <sup>th</sup> , 2016

Editorial Team Member for Pre- and Post-Symposium Publication for International Symposium 'Livable Habitat and Sustainable Urban Agenda' organised by the Department of Architecture and Regional Planning, Indian Institute of Technology Kharagpur in association	June 2016
Participant at International Symposium 'Livable Habitat and Sustainable Urban Agenda' at Kolkata on 27th and 28th of January organised by the Department of Architecture and Regional Planning, Indian Institute of Technology Kharagpur in association with the Ministry of Housing and Urban Poverty Alleviation (MoHUPA), Government of India	Jan 27 <sup>th</sup> & 28 <sup>th</sup> , 2016
Interview on Sustainable Living agenda published on DAAD Alumni web portal on 24th November 2015 with title 'Sustainability to me is an attitude and way of life', can be accessed from <a href="https://www.alumniportal-deutschland.org/en/members/alumni-portraits/article/germany-alumni-mani-dhingra-sustainability-india.html">https://www.alumniportal-deutschland.org/en/members/alumni-portraits/article/germany-alumni-mani-dhingra-sustainability-india.html</a>	2015
Kaushik A., Dhingra M., Singh M. K., Parikh J. K., Indian Cities towards Smartness: A Case Study of Guwahati City, selected in "Smart City Expo World Congress, presented on 17-19 November 2015, Barcelona, Spain"	2015
Dhingra M., Kaushik A., Singh M. K., Parikh J. K., "Mainstreaming Disaster Resilience for Sustainable Development of Cities in India: Case study of Guwahati and Shillong", presented at the 6th Conference of the International Society for Integrated Disaster Risk Management (IDRIM -TIFAC 2015) on October 28, 2015	2015
Participant at an India under Construction Symposium on 'Smart Cities' held at FICCI Auditorium in New Delhi	Nov 28 <sup>th</sup> , 2015
Participant at National Workshop on 'Governance, Administrative Reforms, and Capacity Building' being organized by ICRIER: Shri Venkaiah Naidu, Honorable Minister of Urban Development, Housing & Urban Poverty Alleviation, Government of India, was the chief guest and speak on the occasion.	Mar 25 <sup>th</sup> , 2015
Participant at "Climate Resilience in Built Environment" at Stein Auditorium, India Habitat Centre, New Delhi	Mar 12 <sup>th</sup> , 2015
Participant at "Building climate resilient cities: Exploring theories, practices and prospects" at TERI University, New Delhi	Feb 17 <sup>th</sup> , 2015
Paper "Urban Sprawl & its Smart Management" published in International Journal of Research	2014
Conducted Workshop on Dissemination & Consultation Workshop on "Studies on Subsidized Petroleum Products: Diesel and Kerosene" by IRADe supported by IISD	Nov 14 <sup>th</sup> , 2014
Round Table Consultation on Policy Engagement with State Governments on Urban Climate Resilience by TERI- (ACCCRN & Rockefeller Foundation)	Nov 12 <sup>th</sup> , 2014
National Workshop on Urban Risk Reduction and Climate Change Adaptation: Towards Sustainable Development of Cities organized by UNDMT in partnership with the Ministry of Environment, Forests and Climate Change [MoEF]	Oct 17 <sup>th</sup> , 2014
Participant & Speaker at Final Dissemination & Deliberation Workshop at TERI, New Delhi on: Reforming LPG & Kerosene Subsidies: Short Term Priorities & Long-Term Ambitions.	Sept 18 <sup>th</sup> , 2014
"Urban Sprawl and its Smart Management" paper submitted in National Symposium On 'Managing Lands in Urban Fringes: Controlling Urban Sprawl' in Kolkata – 3 <sup>rd</sup> Position	2013

## REFERENCES

- Dr. Subrata Chattopadhyay, Professor, Department of Architecture and Regional Planning, IIT Kharagpur, India, [schat@arp.iitkgp.ernet.in](mailto:schat@arp.iitkgp.ernet.in)
- Mr. Ashim Kumar Manna, Doctoral student, International Centre of Urbanism, KU Leuven, [ashimkumar.manna@kuleuven.be](mailto:ashimkumar.manna@kuleuven.be)
- Ms. Riya Rahiman, Infrastructure Resilience Specialist, United Nations Development Programme (UNDP), [riya.rahiman@undp.org](mailto:riya.rahiman@undp.org)
- Mr. Rajat Mukherjee, Lead Consultant, Govt & Infrastructure Advisory, Knight Frank; [rajat.mukherjee@in.knightfrank.com](mailto:rajat.mukherjee@in.knightfrank.com)

I hereby declare that the above information provided is true to best of my knowledge.



Mani Dhingra; Dated 5<sup>th</sup> July, 2021