

# Ms Reetu KUMARI

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## Education

- Graduate Certificate in Applied GIS, Department of Geography, National University of Singapore, 2024
  - Master of Planning (Housing), Department of Urban Planning, Centre for Environmental Planning and Technology, 2014
  - Bachelor of Architecture, Priyadarshini Institute of Architecture and Design Studies, Nagpur University, 2012
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## Professional Experience

SEPTEMBER 2021—NOVEMBER 2021

### Senior Urban Planner, NDA Team, Vietnam

- “Da-Nang Hi-tech zone”, Vietnam
  - Studied, prepared and presented case studies of “Innovations Districts”.
  - Performed literature study and guided existing situation analysis, land-use plan & master plan.
- “Ninh Thuan Coastline: General Plan”
  - Performed site study, literature study and conceptual proposal

JULY 2018—MAY 2019

### Research Assistant, National University of Singapore

- Worked with Asst. Prof. Ye Zhang on research project “Measuring the physical profile and use of Park Connector Network in Singapore using machine learning techniques”.
  - Executed primary surveys, database development, data processing & analysis on ArcGIS and regression modelling for future predictions.
  - Performed literature review and co-authored conference paper.
  - Co-ordinated student RA’s and administrative works of the research project.
- Worked with Asst. Prof. Ye Zhang on research project “Social amenities marking in HDB estates of Singapore”.
  - Prepared maps of education, healthcare, sports, community, transportation and green amenities of HDB estates on QGIS.

MARCH 2017—JUNE 2017

### Research Assistant, National University of Singapore

- Worked with Assoc. Prof. Rudi Stouffs and Assoc. Prof. Patrick Janssen on research project “Jurong vision: Parametric Urban Modeling Study Project”.
  - Managed & produced GIS database, analysis maps, PowerPoint presentations.
  - Organized and presented PowerPoint presentations at the consultation meetings.

May 2024

JULY 2015—DECEMBER 2015

## **Urban Planner, Creative Circle, India**

- Design development, presentations, report writing, map preparation and site surveys.

JUNE 2014—MAY 2015

## **Urban Planner, HCP Design and Management Pvt. Ltd., India**

- “Development Plan for Morbi Wankaner Urban Development Authority (MWUDA)”
  - Conducted land-use surveys, mapping on Auto CAD, sector wise baseline assessment, population projections, conceptual proposals, presentations and final proposals.
  - Co-written inception report, base line assessment report and final project report.
  - Mentored & guided junior urban planners involved in the project.
- “Nagpur Improvement Schemes”
  - Co-written Development Control Regulations (DCRs) & performed locational value of plots
  - Produced sub plotting and 3D modeling maps and models based on ruling DCRs.

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## **Research Area/Topic/Discipline**

Urban planning; sustainability; Energy transition

## **Short Biography**

Ms. Reetu Kumari joined as Research Assistant with the Asia Urbanisms Cluster on 2 May 2024. She is a graduate in Urban Planning (2014) from CEPT University, India, undergraduate in Architecture (2012) from Nagpur University, India and recently finished her certification in Introduction to Applied GIS from NUS (2024). She has acquired close to four years of experience across South Asian countries in research, physical urban planning, spatial data analytics and architecture. She has research interests in sustainable development of urban settlements and is keen to investigate planning models and methods to mitigate issues in cities for a sustainable and resilient future. She will be working with Asst Prof Naomi C. Hanakata on her project, “Singapore’s Entanglement in the Energy Transition. Challenges and Potentials for a Regional, Just Transition.”

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## **Publications**

Kumari, R., Tian, J., Zhang, Y., & Jarvi, J. (2023). “Greener and Healthier Urban Mobility: A Comprehensive Analysis of Green Routes in Singapore using Green View Index”. The 3rd Workshop of Asian Young Geographers. Online.

Zhang, Y., Kumari, R., Zhe, J., Seah, C. M., & Chua, T. S. (2018). “Measuring the physical profile and use of Park Connector Network in Singapore using deep learning techniques”. IFOU. Singapore: ResearchGate. doi:10.3390/IFOU2018-05972