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Research interest: Remote sensing | Urban ecology | Ecological modelling | Landscape planning | Green infrastructure | Urban dynamics | Spatial analysis | Vulnerability assessment |

Work Experience

2021/12 – present	Postdoctoral Associate <i>School of the Environment, Yale University, New Haven</i>
2021/08 – 2021/11	Project Assistant <i>Urban Resilience and Adaptation for India and Mongolia (URGENT) Project, European Union (Jawaharlal Nehru University- JNU), New Delhi, India</i>
2019/10– 2020/09	Guest Researcher <i>UFZ–Helmholtz Centre for Environmental Research (DAAD), Saxony, Germany</i>
2018/08 – 2021/07	Senior Research Fellow <i>JNU, University Grants Commission, New Delhi, India</i>
2016/07 – 2018/07	Junior Research Fellow <i>JNU, University Grants Commission, New Delhi, India</i>
2016/01 – 2016/06	Assistant Professor (Guest) <i>PGDAV College, University of Delhi, New Delhi, India</i>
2014/08 – 2015/01	Research Assistant <i>Wildlife Institute of India, Utrtrakhand, India</i>

Education

2016/07 – 2021/12	PhD (Environmental Science) <i>Jawaharlal Nehru University (JNU), New Delhi</i> Title: <i>Characterizing urban ecosystems in the capital cities of the Western Himalaya</i>
2012/07 – 2014/07	Master of Science (Environmental Studies) <i>University of Delhi, New Delhi</i>
2008/07 – 2011/07	Bachelor of Science (Zoology) <i>Zakir Husain College, University of Delhi, New Delhi</i>

Grants/Fellowships

- Research Grant - NASA Black Marble grant and Resources for the Future Molly Macauley grant, United States (2021-2022)
 - Research Grant - Bi-nationally Supervised Doctoral Degree funded by DAAD (Deutscher Akademischer Austauschdienst), Germany (2019-2020)
 - Senior Research Fellowship (UGC-SRF) in Environmental Sciences funded by University Grants Commission (UGC), Government of India (2018-2021)
 - Junior Research Fellowship (UGC-JRF) in Environmental Sciences funded by University Grants Commission (UGC), Government of India (2016-2018)
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Publications

Peer-reviewed articles

1. **Anees, M.M.***, Mann, D., Sharma, M., Banzhaf, E., and Joshi, P.K. (2020). Assessment of urban dynamics to understand spatiotemporal differentiation at various scales using remote sensing and geospatial tools. *Remote Sensing*, 12(8), 1-30.
2. **Anees, M.M.**, Shukla, R., Punia, M., and Joshi, P.K.* (2020). Assessment and visualization of inherent vulnerability of urban population in India to natural disasters. *Climate and Development*, 12(6), 532–546.
3. Mann, D., **Anees, M.M.**, Shalini, R., and Joshi, P.K.* (2020). Spatio-temporal variations in landscape ecological risk related to road network in the Central Himalaya. *Human and Ecological Risk Assessment*, 1-18.
4. Sharma, S., Nahid, S., Sharma, M., Sannigrahi, S.*, **Anees, M. M.**, Sharma, R., Shekhar R., Basu A. S., Pilla, F., Basu, B., Joshi, P. K. (2020). A long-term and comprehensive assessment of urbanization-induced impacts on ecosystem services in the capital city of India. *City and Environment Interactions*, 7, 1-12.
5. Sharma, S., **Anees, M.M.**, Sharma, M., and Joshi, P.K.* (2020). Longitudinal study of changes in ecosystem services in a city of lakes, Bhopal, India. *Energy, Ecology and Environment*, 1-17.
6. **Anees, M.M.**, Sajjad, S., and Joshi, P.K.* (2018). Characterizing urban area dynamics in historic city of Kurukshetra, India, using remote sensing and spatial metric tools. *Geocarto International*, 34(14), 1–24.

Book chapter

1. **Anees M.M.**, Sharma R., and Joshi, P.K. (2021) Urbanization in Himalaya - An interregional perspective to land use and urban growth dynamics. In U. Schickhoff et al. (eds.), *Mountain Landscapes in Transition, Sustainable Development Goals Series* (Springer Nature)

Manuscripts/Book chapters under submission/review/in preparation

1. **Anees, M.M.**, Mann, D., Sharma, M., Banzhaf, E., and Joshi, P.K*. Landscape characterization and morphological analysis of urban green infrastructure in Himalayan cities – A quality index approach. (submitted)
2. Sharma R., **Anees, M.M.**, and Joshi, P.K. Mapping and modelling urban ecosystem – a geospatial approach. (Book chapter -under review)
3. Shukla R., **Anees, M.M.**, Mann, D., Nayan K., Urban Vulnerability & Climate Change. In Joshi P.K., and Mahato S., (eds.), *Urban Ecosystems* (Book chapter -in preparation)
4. Sharma R., and **Anees, M.M.** Urban Heat Island Phenomena in cities. In Joshi P.K., and Mahato S., (eds.), *Urban Ecosystems* (Book chapter -in preparation)

Selected conference/symposium

- **Anees M.M.** and Joshi P.K. (2021). Conceptual framework for assessment of inherent vulnerability in urban district population of the Western Himalaya to natural hazards, presented at the *International Conference on Challenges of Disasters: Vulnerability, Adaptation and Resilience*, 02-03 March 2021, Jamia Millia Islamia, New Delhi, India.
- **Anees M.M.** and Joshi P.K. (2021). Assessment of urban dynamics and landscape structure of green spaces at various scales in a touristic hill city of Indian Himalaya, presented at the *VI. International Online Conference On City Planning and Urban Design*, 07 May 2021, DAKAM (Eastern Mediterranean Academic Research Center), Istanbul, Turkey.
- **Anees M.M.** and Joshi P.K. (2021). Characterizing urban ecosystems of the Western Himalaya – a conceptual framework, presented at the *V. International Conference On Ecology, Ecosystems and Climate Change*, 14 May 2021, DAKAM (Eastern Mediterranean Academic Research Center), Istanbul, Turkey.
- **Anees M.M.** and Joshi P.K. (2021). Characterizing landscape structure and processes of urban ecosystems in the Western Himalaya – a conceptual framework. In: *1st Annual Symposium of Indian Regional Association for Landscape Analysis (IRALE)*, (On-line), 03-05 October 2021, India.