

KANIKA TANEJA


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PROFESSIONAL CREDENTIALS

 JAMIA MILLIA ISLAMIA, NEW DELHI, INDIA 2015 - Present
Research Scholar (PhD Student)

 INDIA METEOROLOGICAL DEPARTMENT 2013- 2017
MINISTRY OF EARTH SCIENCES, NEW DELHI, INDIA
Senior Research Fellow

- **Project on Augmentation of Environmental Monitoring & Research**
- Study of Aerosol Optical Properties over India using IMD's network of sky-radiometers for measurement of aerosol optical and radiative properties in India; spatial and temporal analysis of satellite retrievals of aerosol characteristics over India.
- Atmospheric aerosol monitoring using ground based instruments such as Nephelometer, Aethalometer, Skyradiometer etc.
- Data analysis using Matlab, Python, R , GrAds, ArcGIS, SPSS, OriginPro and Microsoft Excel.

 EQMS INDIA PVT. LTD., NEW DELHI 2012 – 2013
Environmental Engineer

- Preparation of Environmental Impact Assessment (EIA) Report including Baseline data interpretation, Secondary data research, Compiling documents, Preparing Prefeasibility report, and Conducting presentations for the same to State Expert Appraisal Committee (SEAC).

EDUCATIONAL QUALIFICATION

Doctorate:	Ph.D Jamia Milia Islamia University (2015-Present)
Post Graduation:	M.Tech Environmental Engineering Malaviya National Institute of Technology (MNIT), Jaipur (2010-2012) CGPA: 8.7 PG Diploma (Distance Learning) in Intellectual Property Rights (IPR) National Law School of India University (NLSIU), Bangalore (2011- 2013)
Graduation:	B.Tech Biotechnology Amity University, Noida (2006-2010) CGPA: 8.52
Higher Education:	AISSCE (XII) St. Thomas' School, New Delhi (2005) 80.4% (Physics, Chemistry, Maths, Biology, English)
Matriculation:	AISSCE (X) St. Thomas' School, New Delhi (2003)

IT/COMPUTER SKILLS

- Operating Systems: Windows XP, 7 & 8; Linux.
- Data processing/analysis tools: Python, R, GrADS, Matlab, and ArcGIS.

PUBLICATIONS

Journal Papers:

1. **Taneja K.**, Ahmad S., Ahmad K., Attri S.D., 2020. Variation in aerosol optical properties due to a severe dust storm over an urban city in India. Current Science (In Press).
2. **Taneja K.**, Ahmad S., Ahmad K., Attri S.D., 2020. Spatio-Temporal Analysis of Urban Air Quality: A Comprehensive Approach. In Ahmed S., Abbas S.M. and Zia H. (Eds.), Smart Cities—Opportunities and Challenges (Vol. 58), Springer, Singapore.
3. **Taneja K.**, Attri S. D., Ahmad S., Ahmad K., Soni, V. K., Mor V. and Dhankhar R., 2017. Analysis of Diurnal and Seasonal variations in Aerosol Optical Properties over a Mega City and Adjacent Urban Area in India. MAUSAM, 68, 4, 673-688.
4. **Taneja K.**, Ahmad S., Ahmad K., Attri S.D., 2016. Time series analysis of aerosol optical depth over New Delhi using Box-Jenkins ARIMA modeling approach. Atmospheric Pollution Research, 2016; 7: 585-596. doi:10.1016/j.apr.2016.02.004.
5. Mor V., Dhankhar R., Attri S.D., Soni V. K., Sateesh M. and **Taneja K.**, 2016. Assessment of aerosols optical properties and radiative forcing over an Urban site in North-Western India. Environmental Technology, 1-13.
6. Attri S. D., Soni V. K., Tiwari S., Srivastava A. K., Tiwari S. and **Taneja K.**, 2016. High aerosol loading over mega city Delhi in the western Indo-Gangetic plain : Optical characteristics. MAUSAM, 67, 3, 609-618.
7. **Taneja K.**, Soni V.K., Attri S.D., Peshin S.K., Mor V., Sateesh M., 2014. Seasonal asymmetry of aerosol optical and radiative properties over New Delhi, India using ground-based observations. Global Sustainability Transitions: Impacts & Innovations, 124-130.

Reports:

8. Soni V.K., Attri S.D., **Taneja K.**, and Peshin S.K., Assessment of Aerosol Radiative properties in India. Met Monograph No. ESSO/IMD/EMRC/01/2014, India Meteorological Department, Ministry of Earth Sciences, New Delhi.

Conference papers:

9. **Taneja K.**, Ahmad S., Ahmad K., Attri S.D., 2019. Assessment of aerosols characteristics over Indian mega city using satellite and ground based instrument measurements. In: RMetS Student and Early Career Conference 2019, July 04-05, University of Birmingham, United Kingdom (Oral Presentation).
10. **Taneja K.**, Ahmad S., Ahmad K., Attri S.D., 2019. Spatio-temporal analysis of aerosol optical properties over North India, Atmospheric Science Conference, July 02-03, University of Birmingham, United Kingdom (Poster presentation).
11. **Taneja K.**, Ahmad S., Ahmad K., Attri S.D., 2019. Spatio-Temporal Analysis of Urban Air Quality: A Comprehensive Approach Towards Building a Smart City. In: International Conference on smart cities (ICSC 2019), March 14-16, Jamia Millia Islamia, Delhi, India. (Oral Presentation)
12. **Taneja K.**, Soni, V. K., Ahmad S., Ahmad K., 2019. Analysis of aerosol optical properties over an Indian mega city and its surroundings using skyradiometer and satellite remote sensing. In: International Skynet Workshop (ISW 2019), February 13-15, Ministry of Earth Science, Delhi, India. (Oral Presentation)
13. **Taneja K.**, Ahmad S., Ahmad K., Attri S.D., 2018. Impact of an extreme weather event on aerosol optical and radiative properties in India. In: 6th General Assembly of SPARC, October 1-5, Kyoto, Japan. (Poster Presentation)

14. **Taneja K.**, Ahmad S., Ahmad K., Attri S.D., 2018. Variability of aerosol optical properties during different seasons over North India. In: Conference on Aerosol Technology (AT2018), June 17-20, Bilbao, Spain. (Poster Presentation)
15. **Taneja K.**, Ahmad S., Ahmad K., Attri S.D., 2018. Assessment of optical properties of aerosols over North India. In: RICTA2018, the 6th Iberian Meeting on Aerosol Science and Technology June 20-22, Bilbao, Spain. (Poster Presentation)
16. **Taneja K.**, Ahmad S., Ahmad K., Attri S.D., 2018. Monitoring and modeling of atmospheric aerosols during an intense dust storm over Delhi, India. In: Workshop on 'An introduction to Earth Observation Techniques: Application to the Land and Atmosphere' by UK-India Education and Research Initiative. March 26-28, IIT-Kanpur, India. (Poster Presentation)
17. Singh S., Soni V.K., Sinha P., Ranjan R., Sateesh M., Tiwari A. and **Taneja K.** Study of particulate matter, NO_x, Ozone, Aerosol Optical Depth and Black Carbon in and around Delhi. In: IISC 2016, December 07-11, CSIR-NPL, pp. 392-393.
18. **Taneja K.**, Soni V. K., Attri S. D. and Peshin S.K., Ahmad S. and Ahmad K. Impact of severe dust event on Aerosol Optical and Radiative Properties over New Delhi. In: TROPMET 2015 National Symposium on Weather & Climate Extremes, 2015, February 15-18. Punjab University, Chandigarh, Haryana, India. (Oral and Poster Presentation)
19. **Taneja, K.**, Soni V.K., Attri S.D. and Peshin S.K. Analysis of seasonal variations in aerosol optical and radiative properties over Indo-Gangetic Plains in India. In: Indian Aerosol Science and Technology Association (IASTA), 2014, November 11-13. Banaras Hindu University, Varanasi, U.P., India. (Poster Presentation)
20. **Taneja K.**, Soni V. K., Attri S. D, and Sateesh M. Multiyear analysis of ground-based SKYRAD measurements of Aerosol optical and radiative properties and its comparison with satellite retrievals over India. In: of 6th International Verification Methods Workshop, 2014, March 17-19, New Delhi, India. (Poster Presentation)

AWARDS and ACCOLADES

- The Royal Meteorological Society's Legacies fund grant (2019)
- Department of Science and Technology (DST)- SERB travel grant (2019)
- The XXVII IUUGG General Assembly Student bursary (2019)
- Best oral presentation award in International Conference on smart cities (ICSC 2019)
- Best poster award in RICTA2018, the 6th Iberian Meeting on Aerosol Science and Technology in Bilbao, Spain, during June 20-22 (2018)
- Best student volunteer in Aerosol Technology 2018, AT2018 in Bilbao (Spain) from June 17-20 (2018)
- Council of Scientific & Industrial Research (CSIR) Travel grant (2018)
- SPARC (Stratosphere-troposphere Processes And their Role in Climate) 2018 General Assembly Individual fund
- American Association for Aerosol Research 2018 student bursary for International Aerosol conference (2018)
- Junior/Senior fellowship at India Meteorological Department, Ministry of Earth Science, India (2013-2017)
- Second prize for oral presentation on 'World ozone day' at MNIT, Jaipur (2011)

MEMBERSHIPS

- The Royal Meteorological Society, UK
 - The Aerosol Society, UK
 - Canadian Geophysical Union, Canada
 - Indian Association of Air Pollution Control (IAAPC)
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PERSONAL DOSSIER

Gender: Female

Date of Birth: 19/09/1987

Nationality: Indian

Interests: Creative writing, Reading, Dancing

Languages known: English, Hindi, German (Basic)

REFERENCES

- **Dr. V.K.Soni**

Head/ Scientist E

Environment Monitoring and Research (EMRC)

India Meteorological Department

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- **Dr. S.D. Attri**

Dy Director General of Meteorology/ Scientist F

Agromet Advisory Service Division

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- **Prof. Shamshad Ahmad**

Professor, Department of Civil Engineering

Faculty of Engineering & Technology

Jamia Millia Islamia, New Delhi-110025.

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DECLARATION

I hereby declare that the statements made in this resume are true, complete and correct to the best of my knowledge and belief.

Date:

Place: New Delhi, India

Kanika Taneja