

ADNAN MATEEN QADRI

Address: 47, Al Fazal Colony, Peerbagh,
Srinagar, J & K.

D.O.B: 03/07/1991

Contact No: +91-8082115314

Email :adnanmq@iitk.ac.in

adnanqadri1@gmail.com

EDUCATIONAL DETAILS

Course	Institute / University	Year	CPI / Percentage
PhD (Environmental Engineering)	Indian Institute of Technology, Kanpur	2024	8.3/10
M.Tech (Environmental Engineering)	Zakir Husain College of Engineering and Technology, Aligarh Muslim University	2016	9.77/10
B.Tech (Civil Engineering)	Zakir Husain College of Engineering and Technology, Aligarh Muslim University	2014	8.34/10
12th	Burn Hall School, Srinagar, J&K Board	2009	89.2% • Distinction in Physics, Chemistry, Mathematics, English, IT
10th	Burn Hall School, Srinagar, J&K Board	2007	91.2% • Distinction in Science, Social Science, Mathematics, English, Urdu

WORK EXPERIENCE

- Principal Project Scientist at **IIT Delhi** working on the project “Emission Inventory, Source Apportionment and Carrying Capacity of Durgapur-Raniganj in West Bengal”. (Dec 2023-Aug 2024)
- Worked on a project related to ‘**National Carbonaceous Aerosols Program (NCAP-COALESCE)**’ through **chemical analysis of aerosol samples and source apportionment by receptor modeling technique**. Under the supervision of: **Prof. Tarun Gupta** (Jan 2019- Jan 2023)
- **Meteorological data** extraction using **ECMWF (ERA Reanalysis)**.
- Hands-on analysis experience in drawing **Wind Rose** and **Pollution Rose** plots (**Meteoinfo/OriginPro**).
- Extraction of **air mass backward trajectories** using the **NOAA-HYSPLIT** model and **Trajstat2.0** model.
- Extraction of **active fire data, fire counts, and fire maps** using **FIRMS, NASA**.
- Working knowledge of instruments like **ED-XRF, EC-OC Analyzer, Ion Chromatography, UV-VIS Spectrophotometer, TOC/TN Analyzer**.
- **Teaching Assistantship: Lab in charge of TOC/TN analyzer** involving demonstration of the instrument to B. Tech and MTech students along with instrument-related analytical work and troubleshooting. (Jan 2019- Mar 2020)
- **Teaching Assistant:** Assisted the instructor of the course ‘**Computational Methods in Engineering**’ for conducting **lectures, invigilation, and evaluation** of the performances of the students. (Aug 2018- Nov 2018, Aug 2020-Nov 2020).
- **Teaching Assistant:** Assisted the instructor of the course ‘**Introduction to Environmental Science**’ for conducting **lectures, invigilation, and evaluation** of the performances of the students. (Jan 2018- April 2018)
- **Teaching Assistant:** Assisted the instructor of the course ‘**Agricultural, Sustainability, and Climate Change**’ in conducting **lectures, invigilation, and evaluation** of the performances of the students. (Jan 2021- April 2021)

<ul style="list-style-type: none"> • Tutorship: Tutorials and doubt-solving sessions for ‘Computational Methods in Engineering’. (Aug 2021- Nov 2021) • More than five years of experience in environmental health, air quality modeling, and management, risk assessment, organic pollutants, and parameter estimation 	
TECHNICAL ACHIEVEMENTS	
<ul style="list-style-type: none"> • Qualified GATE 	(2014,2015).
INTERNSHIP	
<ul style="list-style-type: none"> • Company name : Public Works Department(R&B, Srinagar, J&K)) • Project : Performed detailed surveying and estimation of District Court Complex construction in Srinagar • Role : Site Engineer Trainee • Duration : One month 	(11 June - 10 July 2013)
TECHNICAL SKILLS	
<ul style="list-style-type: none"> • Modeling, and Instrumentation Skills: • Interests 	<p>USEPA PMF5.0, Trajstat, SigmaPlot, Origin-Pro TOC analyzer, Spectrophotometer, ICP-OES, ED-XRF, EC-)C Analyzer, NOAA-HYSPLIT, R-Studio,</p> <p>: Atmospheric science, Air quality sampling, Chemical speciation of aerosols, Source Apportionment, Isotopic composition of aerosols, Environmental Health, Risk Assessment, Fate and transport of pollutants</p>
TECHNICAL PROJECTS	
<ul style="list-style-type: none"> • Investigating sources and atmospheric processing of PM_{2.5} using PMF and stable isotopes Under the supervision of: Prof. Tarun Gupta, IIT Kanpur <ul style="list-style-type: none"> • Source Apportionment using USEPA PMF 5.0 to quantify PM_{2.5} sources and the atmospheric processes using stable isotopic ratios as proxies. • Two-Stage Treatment of Slaughterhouse Wastewater using Moving Bed Biofilm Reactor and Advanced Oxidation Process Under the supervision of Prof. Izharul Haq Farooqi, AMU • Analysis of wastewater quality of 130 MLD and 36 MLD STP in Jajmau, Kanpur • Analysis of water quality of river Ganga • Treatment of Sugar Mill Wastewater using Hybrid Upflow Anaerobic Sludge Blanket Reactor 	
	<p>PhD Thesis (Jan 2017-Jun-2024)</p> <p>M.Tech Thesis (Aug 2015-Jul 2016)</p> <p>PhD term project (Jan 2017 to May 2017)</p> <p>PhD term project (Jan 2017 to May 2017)</p> <p>B.Tech Project (Aug 2015- June 2016)</p>
<p>Evaluating the wastewater quality parameters at different units of the treatment plant.</p> <p>To study the performance of Sequential Aerobic MBBR and Advanced Oxidation Methods like Ozonation and UV irradiation for the treatment of slaughterhouse wastewater.</p> <p>Assessing the performance of a lab-scale Hybrid reactor with Upflow Anaerobic Sludge Blanket (UASB) and polyvinyl chloride (PVC) fixed film system for the removal of organic matter from sugar mill wastewater.</p>	

TERM PAPERS		
<ul style="list-style-type: none"> A review of Microbial Fuel Cells for WWT Impact of physicochemical properties of pesticides on environment. 	Dr. Izhar Farooqi Dr. Anubha Goel	(Aug 15-Nov 15) (Jan 17 -Apr 17)
WORKSHOPS AND CONFERENCES		
<ul style="list-style-type: none"> International Conference on Sustainable Solutions in Industrial Pollution, Water and Wastewater Treatment, Organized by the Department of Civil Engineering, AMU, Aligarh. India. (Nov 2018) VI ISEES International Conference on Sustainable Energy and Environmental Challenges. 27-29 Dec 2021. Organized by the International Society for Energy, Environment, and Sustainability. (Dec 2021) International: European Geosciences Union (EGU) General Assembly 2021. (Apr 2021) International: International Aerosol Conference - IAC 2022, Athens, Greece organized by Hellenic Aerosol Research Society (Sep 2022) GIAN course on Energy, Environment, and Sustainability: Enabling advanced solutions using aerosol science, organized by the Indian Institute of Technology, Bombay. (Feb 2018) National Workshop on Advances in Geotechnical Engineering and Transportation Engineering, CED, AMU, Aligarh (Mar 2013) National Workshop on Treatment Technologies for Adsorbable Organic Halides (AOX) present in pulp and paper wastewater, Organized by the Department of Civil Engineering, AMU, Aligarh India (Mar 2016) 		
PAPERS AND PUBLICATIONS		
<ul style="list-style-type: none"> Qadri, A. M., Singh, G. K., Gupta, T., Rabha, S., Islam, N., & Saikia, B. K. (2024). Identifying the sources of PM_{2.5} at a COALESCE site in the Brahmaputra valley region using dispersion normalized PMF. Atmospheric Environment. https://doi.org/10.1016/j.atmosenv.2024.120501 Sauryadeep Mukherjee, Gyanesh Kumar Singh, Monami Dutta, Vivek Srivastava, Adnan Mateen Qadri, Tarun Gupta, Abhijit Chatterjee, PM_{2.5} pollution exceeding Indian standard over a semi-urban region at eastern IGP: Chemistry, meteorological impact, and long-range transport, Science of The Total Environment, https://doi.org/10.1016/j.scitotenv.2023.165415. Sayantee Roy, Gazala Habib, Rishabh Dev, Swati Joshi, Adnan Mateen Qadri, Tarun Gupta, Ramya Sunder Raman (2023). Wintertime aerosol properties of the urban desert region of western India: Implications in regional climate assessment. Science of The Total Environment, https://doi.org/10.1016/j.scitotenv.2023.161473. Gyanesh Kumar Singh, Adnan Mateen Qadri, Debajyoti Paul, Tarun Gupta, Sauryadeep Mukherjee, Abhijit Chatterjee (2023). Investigation of sources and atmospheric transformation of carbonaceous aerosols from Shyamnagar, eastern Indo-Gangetic Plains: Insights from $\delta^{13}C$ and carbon fractions. Chemosphere, https://doi.org/10.1016/j.chemosphere.2023.138422 Rabha, S., Islam, N., Saikia, B. K., Singh, G. K., Qadri, A. M., Srivastava, V., & Gupta, T. (2023). Year-long aerosol chemistry and meteorological implications of PM_{2.5} in an urban area of the Brahmaputra Valley. Environ. Sci.: Atmos. https://doi.org/10.1039/D2EA00120A Qadri, A. M., Singh, G. K., Paul, D., Gupta, T., Rabha, S., Islam, N., & Saikia, B. K. (2022). Variabilities of $\delta^{13}C$ and carbonaceous components in ambient PM_{2.5} in Northeast India : Insights into sources and atmospheric processes. Environmental Research, 214(P1), 113801. https://doi.org/10.1016/j.envres.2022.113801 Das, D., Qadri, A., Tak, P., & Gupta, T. (2022). Effect of processing on emission characteristics of coal briquettes in cookstoves. Energy for Sustainable Development, 69, 77–86. https://doi.org/10.1016/j.esd.2022.06.001 Maheshwarkar, P., Ralhan, A., Raman, R. S., Tibrewal, K., Venkataraman, C., Dhandapani, A., et al. (2022). Understanding the influence of meteorology and emission sources on PM_{2.5} mass concentrations across India: First results from the COALESCE network.Journal of Geophysical Research: Atmospheres, 127, e2021JD035663. https://doi.org/10.1029/2021JD035663 Soni, A.; Mandariya, A. K.; Rajeev, P.; Izhar, S.; Singh, G. K.; Choudhary, V.; Qadri, A. M.; Gupta, A. D.; Singh, A. K.; Gupta, T. Multiple sites ground-based evaluation of carbonaceous aerosol mass concentrations retrieved from 		

the CAMS and MERRA-2 over the Indo-Gangetic Plain. Environ. Sci. Atmos. 2021, 1, 577– 590, DOI: 10.1039/D1EA00067E

- S. Izhar, T. Gupta, **A.M. Qadri**, A.K. Panday. **Wintertime chemical characteristics of aerosol and their role in light extinction during clear and polluted days in rural Indo Gangetic plain.** Environ. Pollution., 282 (2021), p. 117034.
- P Rajput, AK Singh, K Biswas, **AM Qadri**, T Gupta (2020). **Source contribution of firecrackers burst vs. long-range transport of biomass burning emissions over an urban background.** Frontiers in Sustainable Cities 2:68.
- **Qadri, A. M**, Singh, A. K and Gupta T. **Temporal trends and characterization of Biomass Burning in the Indo Gangetic Plains and North-eastern Region of India using Satellite Based Observation.** Proceedings of VI ISEES International Conference on Sustainable Energy and Environmental Challenges, Organized by ISEES, 27 Dec – 29 Dec 2021.
- **Qadri, A.**, Rabha, S., Saikia, B., and Gupta, T. **Seasonal and episodic influence of local meteorology on the fine particulate matter at a regional background site in Northeast India.** EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-13059, <https://doi.org/10.5194/egusphere-egu21-13059>, 2021.
- **Qadri, A.**, Farooqi I.H, Ahmed S. **Treatment of Real Slaughterhouse wastewater by a Lab Scale Moving Bed Biofilm Reactor.** International Conference on Sustainable Solutions in Industrial Pollution, Water and Wastewater Treatment 2018, Aligarh Muslim University.
- **Qadri, A.**, Pasha A., Farooqi I.H, Ahmed S. **Treatment of Sugar Mill Wastewater using Hybrid Up-flow Anaerobic Sludge Blanket Reactor.** International Conference on Waste Management, RECYCLE 2016, Indian Institute of Technology Guwahati., India, 1-2 April 2016.
- M. Shaheer Ali, **Adnan Qadri**, Talib Mansoor. **FLOW CHARACTERISTICS OF A TRIANGULAR SHARP CRESTED WEIR.** HYDRO 2015 INTERNATIONAL 20th International Conference on Hydraulics, Water Resources and River Engineering at IIT Roorkee, India, 17-19 December 2015.

MEMBERSHIPS

- **European Geosciences Union (EGU)-2021**

PERSONAL STRENGTH

- **Logical and creative thinking** skills.
- **Quick learner.**
- **Ability to work in a team.**
- **Good communication** skills.

EXTRACURRICULAR ACTIVITIES

- **Organized** General quiz in Alfaaz'13, AMU 2013
- **First Prize** in quiz at RM Hall, AMU, Aligarh 2013
- **First prize** in Quiz in Zephyr 3.0, AMU, Aligarh 2013
- **First Prize** in Tech-Charade in BARQQ'13 organized by IEEE A.M.U 2013
- **Third Prize** in Quiz at National Literary Festival, AMU Aligarh. 2012
- **Member** Editorial Board of Hall Magazine Rumooz'12. 2012
- **Organizer**, Elysium'11, Annual Literary and Cultural Fest, AMU. 2011
- **Winner** AD-Mad event at Elysium'11, Annual Literary and Cultural Fest, AMU. 2011
- **Winner** of Mr. Sulaiman event at Elysium'11, Annual Literary and Cultural Fest, AMU 2011
- **Consolation** prize in **State Level** Annual Essay writing competition organized by Greater Kashmir 2007
- Participated in the Environmental Awareness Program by Department of Wildlife Protection, J & K. 2004
- **Third** position in Essay competition, Burn Hall School. 2003
- **First** position in Urdu writing competition, Burn Hall School, Srinagar 2002
- **Second** position in Urdu spelling competition at Burn Hall School, Srinagar 2002