Farah Jeba

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Academic Qualification:

- 1st year PhD student, (joined UH in Spring 2023)
- Supervisor Professor Dr. Bernhard Rappenglueck
- **Master of Science (M.S.) in Inorganic and Analytical Chemistry (32 Credits),** 2015 held in 2016
  Specialization in Environmental Chemistry
  Department of Chemistry, University of Dhaka
  CGPA: 3.98/4.00 (position held 1st out of 19)
- **Bachelor of Science (B.S.) Honors in Chemistry (140 Credits),** 2014 held in 2015
  Project on Environmental Chemistry
  Department of Chemistry, University of Dhaka
  CGPA: 3.88/4.00 (Position held 1st out of 63)
- IELTS (academic) score: 7.5 (overall); result published on August 2022

Research Interests:

- I am keenly interested to study on Environmental pollution monitoring and control, characterization of bioaerosols and their response, and chemical toxicology and their effect onhuman health.
- I am also interested in source identification by radioactive isotopes but not limited to these topics only.

Research Experience:

- **B.S. Research Project**: Determination of water-soluble anions and trace metals in coal collected from different brick kilns in Bangladesh.
- **M.S. Thesis:** Polycyclic Aromatic Hydrocarbons (PAHs) in the Atmospheric Suspended Particulate Matters in Urban Dhaka and Rural Bhola, Bangladesh
- Co-supervision of eight students at their thesis at the graduate (MS) level and twelve students at their 4th year undergraduate level at the University of Dhaka in Bangladesh as a Lecturer

List of Publications:

- Salam, A., Andersson, A., Jeba, F., Haque, M. I., Hossain Khan, M. D., & Gustafsson, Ö. (2021). Wintertime Air Quality in Megacity Dhaka, Bangladesh Strongly Affected by Influx of Black Carbon Aerosols from Regional Biomass Burning. *Environmental Science and Technology*. https://doi.org/10.1021/acs.est.1c03623
- Norazman, N. H., Khan, M. F., Ramanathan, S., Mustapa Kama Shah, S., Mohd Jani, S. J., Joy, K. S., Islam, K. N., Jeba, F., Salam, A., Yoshida, O., & Kawashima, H. (2021). Influence of Monsoonal Driving Factors on the Secondary Inorganic Aerosol over Ambient Air in Dhaka. *ACS Earth and Space Chemistry*. https://doi.org/10.1021/acsearthspacechem.1c00200
- Zaman, S. U., Yesmin, M., Pavel, M. R. S., Jeba, F., & Salam, A. (2021). Indoor air quality indicators and toxicity potential at the hospitals' environment in Dhaka, Bangladesh. *Environmental Science and Pollution Research*, *28*(28), 37727–37740. https://doi.org/10.1007/s11356-021-13162-8

- Zaman, S. U., Pavel, M. R. S., Joy, K. S., Jeba, F., Islam, M. S., Paul, S., Bari, M. A., & Salam, A. (2021). Spatial and temporal variation of aerosol optical depths over six major cities in Bangladesh. *Atmospheric Research*, *262*. https://doi.org/10.1016/j.atmosres.2021.105803
- Kumar, P., Hama, S., Nogueira, T., Abbass, R. A., Brand, V. S., Andrade, M. de F., Asfaw, A., Aziz, K. H., Cao, S. J., El-Gendy, A., Islam, S., Jeba, F., Khare, M., Mamuya, S. H., Martinez, J., Meng, M. R., Morawska, L., Muula, A. S., Shiva Nagendra, S. M., … Salam, A. (2021). In-car particulate matter exposure across ten global cities. *Science of the Total Environment*, *750*. https://doi.org/10.1016/j.scitotenv.2020.141395
- Jeba, F., Karim, T. T., Khan, M. F., Latif, M. T., Quddus, K. F., & Salam, A. (2021). Receptor modelling and risk factors of polycyclic aromatic hydrocarbons (PAHs) in the atmospheric particulate matter at an IGP outflow location (island of the Bay of Bengal—Bhola, Bangladesh). *Air Quality, Atmosphere and Health*, *14*(9), 1417–1431. https://doi.org/10.1007/s11869-021-01031-9
- Pavel, M. R. S., Zaman, S. U., Jeba, F., Islam, M. S., & Salam, A. (2021). Long-Term (2003–2019) Air Quality, Climate Variables, and Human Health Consequences in Dhaka, Bangladesh. *Frontiers in Sustainable Cities*, *3*. https://doi.org/10.3389/frsc.2021.681759
- Riad, M., Pavel, S., Salam, A., & Zaman, S. U. (n.d.). *Impact and Correlation of Air Quality and Climate Variables with Covid-19 Morbidity and Mortality in Dhaka, Bangladesh Seasonal influence on transboundary mercury transport over the Himalayas: Implications for society and potential health risk View project air pollution View project*. https://doi.org/10.23880/act-16000197
- Jeba, F., Riad, M., Pavel, S., & Zaman, S. U. (n.d.). *Health Risk Assessment of High-Level Particulate Matter Exposure in Different Environments in Mega City Dhaka, Bangladesh*. www.baasbd.org
- Ahmed, M. S., Yesmin, M., Jeba, F., Hoque, M. S., Jamee, A. R., & Salam, A. (2020). Risk assessment and evaluation of heavy metals concentrations in blood samples of plastic industry workers in Dhaka, Bangladesh. *Toxicology Reports*, *7*, 1373–1380. https://doi.org/10.1016/j.toxrep.2020.10.003
- McNeill, J., Snider, G., Weagle, C. L., Walsh, B., Bissonnette, P., Stone, E., Abboud, I., Akoshile, C., Anh, N. X., Balasubramanian, R., Brook, J. R., Coburn, C., Cohen, A., Dong, J., Gagnon, G., Garland, R. M., He, K., Holben, B. N., Kahn, R., … Martin, R. v. (2020). Large global variations in measured airborne metal concentrations driven by anthropogenic sources. *Scientific Reports*, *10*(1). https://doi.org/10.1038/s41598-020-78789-y
- Sadia, H. E., Jeba, F., Uddin, M. Z., & Salam, A. (2019). Sensitivity study of plant species due to traffic emitted air pollutants (NO2 and PM2.5) during different seasons in Dhaka, Bangladesh. *SN Applied Sciences*, *1*(11). https://doi.org/10.1007/s42452-019-1421-4
- Sadia, H., Jeba, F., Kamal, A., & Salam, A. (2019). Air pollution tolerance index of Mangifera indica plant species growing in the greater Dhaka region, Bangladesh. *Journal of Biodiversity Conservation and Bioresource Management*, *5*(1), 1–12. https://doi.org/10.3329/jbcbm.v5i1.42180
- Khan, M. F., Maulud, K. N. A., Latif, M. T., Chung, J. X., Amil, N., Alias, A., Nadzir, M. S. M., Sahani, M., Mohammad, M., Jahaya, M. F., Hassan, H., Jeba, F., Tahir, N. M., & Abdullah, S. M. S. (2018). Physicochemical factors and their potential sources inferred from long-term rainfall measurements at an urban and a remote rural site in tropical areas. *Science of the Total Environment*, *613–614*, 1401–1416. https://doi.org/10.1016/j.scitotenv.2017.08.025

Scientific Conference and workshops:

- MEC 11 (Mercury emission from coal-fired power plant) workshop, 2015, Chennai, India
- Workshop on Emissions from Brick Kilns, 20-21 January 2016, Dhaka University
- Bangladesh Chemical Congress 2018, University of Dhaka, Bangladesh (Oral presentation)
- ACAM 2019 (4th Atmospheric Composition and Asian Monsoon workshop) UKM, Bangi, Malaysia(poster presentation)

Awards:

- Awarded Dean's award (Gold Medal) 2014 for excellent result.
- Scholarship awarded by Government of Bangladesh for SSC and HSC result.
- Kabi sufia kamal hall trust fund scholarship 2016 awarded by Kabi sufia kamal hall, University of Dhaka.
- Professor Abdul Muktadir sarok scholarship 2013 awarded by the Department of Chemistry, University

of Dhaka etc.

- National Science and Technology (NST 2016-17) Ministry scholarship, Government of Bangladesh

Professional Experience:

- Currently Working as a Graduate Teaching Assistant at the Department of Earth and Atmospheric Science at the University of Houston
- University of Dhaka, Dhaka-1000, Bangladesh
  Lecturer (Full Time Faculty) (Currently on study leave), Department of Chemistry, October 2018 – Present
- **Courses Taught:** Environmental Chemistry, Chemistry of Aquatic and Biotic Environment, Fundamentals of Chemistry, Chemistry of the Elements, Inorganic Synthesis and Characterization Laboratory, and Inorganic and Analytical chemistry laboratory