



A. F. M. FAKHRUL AZAM
(RESUME)

CONTACT

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Address: 7901 Cambridge St, Apt-92,
Houston, Texas-77054

SKILLS

- Atmospheric data analysis and environmental modeling
- Numerical simulation and meteorological data interpretation
- Large geospatial and satellite datasets
- Scientific programming and data processing
- Environmental engineering concepts with atmospheric research

EXPERTISE

- Python Programming
- Simulation & Modeling
- Computational Analysis
- Arc GIS
- Google Earth Engine

RESEARCH PROJECT (Ongoing)

Decoupling of Surface and Residual Layers in Houston's Nocturnal Boundary Layer: Implications for Air Quality

EDUCATION

University of Houston | Spring 26 (Ongoing)

MS Student of Atmospheric Sciences & Meteorology
Department of Earth and Atmospheric Sciences
CGPA-3.466/4.00

Jahangirnagar University | 2021

MS in GIS for Environment & Development | CGPA- 3.81/4.00

Ahsanullah University of Science & Technology | 2012

B.Sc (Hons.) in Civil Engineering
Thesis: On Environmental Engineering

EXPERIENCE

Deputy Director (Environmental Engineer),
Pollution Control & Environmental Compliance Department
Metro Group (Bangladesh)

(From 2012 – 2023) |

Experience: 11 Years

Research Assistant (RA) Jahangirnagar University (Bangladesh)

(From 2019 to 2021)

RELEVANT CERTIFICATES OF COMPLETION

(Certifications)

- R for Data Science
- Scientific Programming with Python
- Introduction to Machine Learning
- Introduction to cluster computing: Linux, shell scripting, queuing systems, cluster architecture

(Remote Sensing Based Online Trainings)

- Satellite Remote Sensing for Agricultural Applications (NASA-ARSET)
- MODIS to VIIRS Transition for Air Quality Applications (NASA-ARSET)
- Using Earth Observations to Monitor Water Budgets for River Basin Management II (NASA-ARSET)
- Satellite Remote Sensing for Urban Heat Islands (NASA-ARSET)
- Understanding Phenology with Remote Sensing (NASA-ARSET)
- Forest Mapping and Monitoring with SAR Data (NASA-ARSET)
- Remote Sensing of Coastal Ecosystems (NASA-ARSET)
- Modeling Flood Risk Using GIS and Remote Sensing (GeoSRF)

REFERENCES

1. Dr. Bernhard Rappenglueck

Professor

Department of Earth and Atmospheric Sciences,
University of Houston

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