





CURRICULUM VITAE


AL-EKRAM ELAHEE HRIDOY

 Department of Geography and Environmental Studies, University of Chittagong

 Chittagong, Bangladesh

 aliqramalaheehridoy@gmail.com

 +8801789543794

 <https://wolf-dev.github.io/me>

LinkedIn: www.linkedin.com/in/aliqramalahee

EDUCATION

B. Science Geography and Environmental Studies, University of Chittagong, Chittagong, Bangladesh
GPA (3 years average) 3.35 / 4.00
GRE and TOEFL I plan to sit soon.

PUBLICATIONS

Peer reviewed

1. Hridoy, A. E. E., Mohiman, M. A., Tusher, S. M. S. H., Nowraj, S. Z. A., & Rahman, M. A. (2021). Impact of meteorological parameters on COVID-19 transmission in Bangladesh: a spatiotemporal approach. *Theoretical and Applied Climatology*, 1-13.
2. Hridoy, A. E. E., Tipo, I. H., Sami, M. S., Babu, M. R., Ahmed, M. S., Rahman, S. M., ... & Naim, M. (2021). Spatio-temporal estimation of basic and effective reproduction number of COVID-19 and post-lockdown transmissibility in Bangladesh. *Spatial Information Research*, 1-13
3. Alam, E., Hridoy, A. E. E., & Naim, M. (2021). Factors Affecting Small-Scale Fishers Adaptation toward the Impacts of Climate Change: Reflections from South Eastern Bangladeshi Fishers. *International Energy Journal*, 21(1A)

Preprints

1. Hridoy, A. E. E., Naim, M., Emon, N. U., Tipo, I. H., Alam, S., Al Mamun, A., & Islam, M. S. (2020). Forecasting COVID-19 Dynamics and Endpoint in Bangladesh: A Data-driven Approach. *medRxiv*.
2. Hridoy, A. E. E., Naim, M., Alam, E., Emon, N. U., Tipo, I. H., Tusher, S. M. S. H., ... & Islam, M. S. (2020). Estimation of Effective Reproduction Number for COVID-19 in Bangladesh and its districts. *medRxiv*.

Submitted

1. Journal: Science of the Total Environment
Title: Tracing spatial and temporal dynamics of the air quality of the Red Sea based on satellite observations.
2. Journal: Meteorology and Atmospheric Physics
Title: Climate Change in Bangladesh: Temperature and Rainfall Climatology of Bangladesh for 1949–2013 and its implication on rice yield.
3. Book Chapter: Routledge Hurricane
Title: Impacts of storm surges in society and recent advances on risk management.

Latest Project Engagement

1. Impacts of COVID-19 on air pollution, human mobility and activities in 9 major cities of Nigeria.
2. Coupling nexus and circular economy to decouple carbon emissions from economic growth.
3. Predicting COVID-19 incidence using mobility data in Saudi Arabia: a machine learning approach.

EXPERIENCE

- Research Assistant**, King Fahd University of Petroleum & Minerals, KSA Jan 2021- Present
I'm working as a remote research assistant at Dr. Syed Masiur Rahman's Lab.
- Python Programming and Data Science Instructor**, Institute of Forestry and Environmental Sciences, CU (IFESCU), Bangladesh. Sep 1 2021 - Present
I am conducting a training on Python programming language, data analysis and visualization, machine learning algorithms and Google Earth Engine.
- Python and Data Analysis Instructor**, Bangladesh Agriculture University, Bangladesh Jun 9 2021 – June 23 2021
I conducted a training on Python programming language, exploratory data analysis, data visualization, and statistical modeling in Python.
- Research Assistant**, Disaster and Development Organizations (DADO), Chattogram, Bangladesh Jun 2019 – December 2020
My research focuses were climate change, climate change adaptation and natural disasters.
- Frontend Web Developer**, Fiverr Feb 2017 – May 2018
Freelance web developer.

SKILLS

Languages: Python, JavaScript, R
Data Science Tools: Scikit-Learn, TensorFlow, Pandas, NumPy
Deep learning: TensorFlow, Keras
GIS tools: QGIS
Spatial data science tools: Geoda, PySal, GeoPandas, Leaflet
Database Language: SQL, Big Query, PostGIS
Remote Sensing tool: Google Earth Engine (GEE)

Volunteer COVID-19 RESPONSE

1. Second COVID-19 tracker in Bangladesh, web mapping and SEIR based epidemiological modelling of COVID-19 (Bengali language).
Work: <https://wolf-dev.github.io/bdcovid19/index.html>
2. COVID-19 Effective reproduction number (Rt) in Bangladesh and spatial clustering of Rt.
Work: https://github.com/wolf-dev/Rt_Bd
3. Predicting COVID-19 transmission in Bangladesh using mobility data: a machine learning approach.
Work: https://github.com/wolf-dev/COVID_mobility_BD
4. Sentiment Analysis of Public Opinion on Vaccination in Bangladesh using Twitter data.
Work: https://github.com/wolf-dev/Sentiment_COVID_bd

REFERENCE

1. Dr. Syed Maisur Rahman
Affiliation: Center for Environment & Water, Research Institute, King Fahd University of Petroleum & Minerals, Dhahran 31261, Saudi Arabia
Email: smrahman@kfupm.edu.sa
Phone: +966138602991
2. Dr. Mohammad Mosharraf Hossain
Affiliation: Institute of Forestry and Environmental Science, University of Chittagong, Chittagong, Bangladesh
Email: md.mosharraf@gmail.com
Phone: +8801729094397

