Md. Didarul Islam

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Research Interests

Climate Dynamics • Machine learning (XAI) for Climate science • Climate
 Modeling • Tropical Cyclone • Precipitation • Extreme Event • Data Assimilation
 • ENSO

Education

- **B.Sc. Hons. in Physics**, Shahjalal University of Science and Technology, Bangladesh, CGPA: 3.68 / 4 (first 7 semesters) **01/2019 present**
- •HSC, Jalalabad Cantonment public school and College, Bangladesh, GPA: 5.00 (English: A+, Mathematics: A+, Physics: A+, Chemistry: A+, Biology: A+, Information and communication technology: A+) 06/2016 07/2018
- **SSC**, Nobin Chandra Govt. Model High School, Bangladesh GPA: 5.00 (English: A+, Mathematics: A+, Physics: A+, Chemistry: A+, Biology: A+)

 01/2014 05/2016

Research Experience

- 11/2022 Present: Research Intern with Dr. Abdullah Al Fahad, (Climate Physicist, NASA GSFC, MD, USA)
 - Working on Predicting cyclone tracks using the machine learning method.
 - Working on a GitHub project titled 'Python For Climate Science'
- 06/2023 Present: Dr. Md Enamul Haque (Associate Professor, Department of Physics, SUST)
 - Calculating the band gap of a semiconductor material
 - High-Performance Computing and Linux system(HPC)

Computational Skills

- **Programming Languages:** Python, Matematica, C, Matlab.
- Python Packages: Cartopy, Metpy, Numpy, Pandas, Matplotlib, tkinter, Machine Learning(Scikit-learn, Keras, Tensorflow).
- Other Skills: Microsoft Office, Quantum Espresso,
 High Performance Computing, Linux(bash scripting)

Teaching Experience

- 06/2018 07/2021: physics Instructor((Compass Academic Care, Sylhet).
- 03/2018 04/2019: Physics Instructor (Fusion Coaching Center, Sylhet).
- 01/2018 03/2018: Math Instructor (UCC, Sylhet).

Organizing Experience

- 02/2019 Present: General member- SUST Physics Society
- 04/2019 Present: General member- Copernicus Astronomical Memorial(CAM-SUST)
- 09/2022 Present: General member- Bangladesh Geophysics Union

Awards

- Talent Pool Scholarship in Primary School Certificate 2010
- Talent Pool Scholarship in Junior School Certificate 2013
- General Scholarship in Secondary School Certificate 2016
- Bronze Medal, University Physics Competition 2020
- Bronze Medal, University Physics competition 2021
- Bronze Medal, University Physics competition 2022
- 20th position in International Theoretical Physics Competition 2021

Contact

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References

Dr. Abdullah Al Fahad Climate Physicist NASA GSFC, MD, USA Email: a.fahad@nasa.gov

Dr. Enamul Haque
Associate Professor, Department of Physics
Shahjalal University of Science and
Technology Email: tanvir_sust@yahoo.com