

Shammi Akhter

E-mail: s.akhter@pgr.reading.ac.uk

Current position and Research interest

Research student, Department of Meteorology, University of Reading.

Ph.D. Project Title: Controls on the Track and Intensity of Tropical Cyclones in the Bay of Bengal.

Ph.D. Supervisors: Chris Holloway, Kevin Hodges and Benoit Vanniere.

The main research questions for my current study are:

- 1) How do environmental (atmospheric as well as oceanic) factors influence the formation and intensification of tropical cyclones during the pre-monsoon and post-monsoon season over the Bay of Bengal and how might this change in the future?
- 2) How do large scale modes of intrapersonal and internal variability influence tropical cyclone characteristics in the Bay of Bengal and how might this change in the future?

EDUCATION

M.S. Physics, CGPA 3.97 out of 4.00, University of Dhaka, 2017.

B.Sc. Physics, CGPA 3.73 out of 4.00, University of Dhaka, 2015.

Professional Experience

Lecturer (currently on study leave), Department of Meteorology, University of Dhaka, 2017- present.

Research Supervision, Determination of the soil moisture over Bangladesh and its correlation with rainfall, humidity and temperature, 2019. Number of students: 3.

Volunteering work, Paper packaging for sensitive foods, Department of Food and Nutritional Sciences, University of Reading, 2021.

Comparative Skills

C++, Maple, GrADS, cf-python, cf-plot, Iris, Unix, Python.

Publications

Akhter, S., Syed, I. M., Mallik, M. A. K., and S.M.Q. Hasan. (2017). Simulation of High Impact Rainfall Event in Monsoon Season over Bangladesh using WRF Model, *Atmosphere*, vol.7.

M.S. thesis: Simulation of Heavy Rainfall Events and Thermodynamic Features in Monsoon Season over Bangladesh using WRF Model, Department of Physics, University of Dhaka, 2016.

Conference Attended

European Geosciences Union (EGU) General Assembly, 25-30 April 2021.

34th Conference on Hurricanes and Tropical Meteorology Virtual Meeting by the American Meteorological Society (AMS), 10 – 14 May 2021.

Training workshop

Marine Hazards Operational Warning and Marine Sciences, National Marine Environmental Forecasting Centre, Beijing, China, 2018.

NCAS Data Tools Training day (on the cf-python and cf-plot data analysis and plotting tools), 2020.

UNIX/Linux basics of University of Reading Coding Club training sessions, University of Reading, 2019.

Pycharm and Data Ethics arranged by Scenario, University of Reading, 2020.

Linguistics Skills

English, Bengali.

Interests

Reading and voluntary works.