## **PAPPU PAUL**

Graduate Teaching Assistant Department of Climate, Meteorology & Atmospheric Sciences University of Illinois Urbana-Champaign E-mail: pappup2@illinois.edu

OBJECTIVE	I wish to advance my career as a research scientist or professor. I believe, a genuine enthusiasm in these sectors would push me to work hard and progress.
RESEARCH INTERESTS	Climate Dynamics, Climate Modeling, Climate Variability, Extreme Weather, Cloud Physics, Thunderstorms and Lightning.
EDUCATION	Ph.D. in Atmospheric SciencesAug 2022-PresentUniversity of Illinois Urbana-ChampaignThesis: SST pattern effect on the top of atmospheric radiation usingCommunity Community Earth System Model (CESM)Supervisor: Dr. Cristian ProistosescuDepartment of Climate, Meteorology and Atmospheric SciencesUniversity of Illinois Urbana-Champaign
	Master of Science in Physics2018-2020University of Dhaka, BangladeshCGPA: 3.97 on a scale of 4.00 (Position: 1st)Thesis: Study of Pre-Monsoon Thunderstorm and Lightning Eventsusing WRF-ARW Model in BangladeshSupervisor: Dr. Ishtiaque M. SyedDepartment of PhysicsUniversity of Dhaka, Bangladesh.
	Bachelor of Science in Physics2014-2018University of Dhaka, BangladeshCGPA: 3.64 on a scale of 4.00 (Position: 2 <sup>nd</sup> )
RESEARCH EXPERIENCES	1. Analyzing the radiative feedback for the spatial variation of sea surface temperature with the help of green's function using CESM. (on going)
	2. Analysis of the E3SM Atmosphere Model's Parametric Sensitivity Using Short Perturbed Parameter Ensemble Simulations. (on going)
	3. Master's degree Thesis at Department of Physics, University of Dhaka, Thesis title: "Study of Pre-Monsoon Thunderstorm Events using WRF- ARW Model in Bangladesh."
	4. Calculation of vertical profile of the Electric Field and Lightning Potential Index (LPI) in developing thundercloud by using WRF-ELEC.

WORK EXPERIENCE	Graduate Teaching Assistant Department of Atmospheric Sciences University of Illinois Urbana-Champaign.	Aug 2023-Present
	Graduate Research Assistant Department of Atmospheric Sciences University of Illinois Urbana-Champaign.	Aug 2022-Aug 2023
	Lecturer Department of Meteorology University of Dhaka, Bangladesh.	Jun 2021-Present On leave
	Lecturer Department of Science & Humanities (Physics Win Military Institute of Science and Technology	<b>Jan 2021-Jun 2021</b> g)
	Lecturer Department of Computer Science and Engineering United International University	Feb 2020-Jul 2020
PUBLICATIONS	1. Islam, M. M., <b>Paul, P.</b> , Shuvo, S. D., Akter, F., & Exploring the Use of WRF-ARW Model for Ana Bangladesh. The Dhaka University Journal of Earth Sciences, 12(1), 9–28. <u>https://doi.org/10.3329/dujee</u>	x Khan, S. M. (2024). lyzing Heatwaves in h and Environmental <u>ss.v12i1.70461</u>
	2. <b>Paul, P.</b> , Imran, A., Mallik, M.A., Syed, I.M. (20 Study of the Lightning Potential Index and Electric Thunderstorm Cases over Bangladesh. Atmos Ocea <u>https://doi.org/10.1134/S1024856022050177</u>	22). Diagnostic Field in Two n Opt 35, 524–540.
	3. Rabbani, K. M. G., Islam, M. J., Fierro, A. O., M <b>Paul, P.</b> (2022). Lightning forecasting in Banglades lightning potential index and the electric potential. A Research, 267, 105973. <u>https://doi.org/10.1016/j.atm</u>	ansell, E. R., & h based on the Atmospheric nosres.2021.105973
	4. Jaman, S., Islam, M. J., Imran, A., Kamruzzaman K., <b>Paul, P.,</b> & Syed, I. M. (2022). Sensitivity of Di Schemes in the Simulation of Heat Wave Events ov WRF-ARW Model. <i>Dhaka University Journal of Sc</i> <u>https://doi.org/10.3329/dujs.v70i1.60384</u>	, M., Mallik, M. A. afferent Physics er Bangladesh Using cience, 70(1), 70-78.
	5. <b>Paul, P.</b> , Imran, A., Islam, Md. J., Kabir, A., Jam (2018). Study of Pre-Monsoon Thunderstorms and A Thermodynamic Features Over Bangladesh Using W Model. <i>Dhaka Univ. J. Sci.</i> , <i>67(2)</i> , 151–156. Retriev 2021, from <u>http://journal.library.du.ac.bd/index.php?journal=du</u> =view&path%5B%5D=2232	an, S., & M. Syed, I. Associated VRF-ARW ved November 15, ujs&page=article&op

CONFERENCE PRESENTATIONS	1. <b>Paul, P</b> ., Proistosescu, C., Sasaki, M. (2024) Impacts of Sea Surface Temperature Patterns on Global Radiative Response, 23rd Annual Student Conference AMS 2024, Baltimore, MD.
	2. <b>Paul, P.</b> , Proistosescu, C., Sasaki, M. (2023). Impacts of Sea Surface Temperature Patterns on Global Radiative Response. Midwest Student Conference on Atmospheric Research 2023, University of Illinois Urbana Champaign, Urbana, IL.
	3. <b>Paul, P.</b> , Imran, A., Syed, I. M., Mallik, M. A. K., & Islam, Md. J. (2020). <i>Study of Pre-Monsoon Thunderstorm Events using WRF-ARW Model in Bangladesh</i> . International Conference on Physics-2020, Atomic Energy Centre, Dhaka.
	4. <b>Paul, P.</b> , Imran, A., Syed, I. M., Mallik, M. A. K., Islam, Md. J., & Jaman, S. (2019). <i>Prediction of Pre-Monsoon Thunderstorms and Its Associated Thermodynamic Feature over Bangladesh Using WRF-ARW Model</i> . International Conference on Contemporary Research and Applications of Meteorology ICCRAM-2019, Bangladesh Meteorological Department, Dhaka, Bangladesh.
FELLOWSHIP & AWARD	1. National Science and Technology (NST) fellowship 2019-2020.
	2. Best presentation award at the International Conference on Physics by Bangladesh Physical Society 2020
	3. Bangladesh Government Honours Scholarship based on Honors result-2017.
COMPUTER SKILLS	G-fortran, Python, c++ & R programing, Matlab, Gnuplot, GrADS, Accuracy of using various operating system: Linux (Ubuntu, CentOS), Windows (7, 8, 10), Proficiency in Microsoft Office (Word, Excel, PowerPoint) documentation.
PERSONAL SKILLS	Fluent in English, multicultural teamwork skills, self-motivated and ability to take the initiative, capability to work under pressure.
VOLUNTEER EXPERIENCE	1. Technical Member at the International Conference on Physics by Bangladesh Physical Society (2019 & 2020).
	2. Student Volunteer at the American Meteorological Society Annual Fall meeting 2024.