Kyle T. Brooks

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Research interests	Tropical Cyclones/Meteorology, Tornadoes and Super orology, Numerical weather prediction and modeling assimilation	-	
Education	University of Georgia	Athens, Georgia, USA	
	M.S in Geography	June 2022 – Present	
	Mentors: Dr. John A. Knox	Current GPA: 3.27	
	University of Georgia	Athens, Georgia, USA	
	B.S in Atmospheric Science, Geography	Jan. 2020 – May 2022	
	Mentors: Dr. John A. Knox, Dr. James Marshall-Shep	herd Major GPA: 3.90	
	Abraham Baldwin Agricultural College	Tifton, Georgia, USA	
	A.S in Core Curriculum	Aug. 2017 – Jul. 2019	
	Emphasis on Aeronautical Engineering		
	Relevant coursework		
	 Atmospheric Sciences: Introduction to Data Assim Systems Modeling, Programming for Atmospheric Radar Meteorology, Atmospheric Dynamics I and (Taking Summer '24) <u>Data Science</u>: Intro to GIS, Geographic Information Geographers, Machine Learning in Data Science (S 	Scientists, Mesoscale and II, Tropical Meteorology Science, Data Science for	
Grants	Developing new storm design criteria for natural hazards planning re- search and practice (co-PI)		
	University of Georgia, 2021 Presidential Interdisciplin	nary Seed Grant	
	\$135,052	Funded 1/22-6/23	
	Creation of a student-run, on-campus Numerical Weather Forecasting Model. University of Georgia, 2023 UGA Student Technology Fee One-Time Funding Allocation		
	\$43,000	Funded 1/23-4/25	
	WRF in the GEOG 1112 Curriculum.		

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	University of Georgia, 2023 UGA Franklin College Teaching Enhancement as Innovation Grant.		
	\$3,000 Funded 8/23-4/25		
Research experience	"A Long Time 'Comin: Modeling the Impacts of a Direct Major Tropical Cyclone Landfall on Coastal Georgia		
	Mentors: Professor John A. Knox (UGA) Jun. 23 – Present Using WRF-ARW to model the Hurricane of 1898: the last major tropical cy- clone to make landfall on the Georgia coast 125 years ago.		
	Developing new storm design criteria for natural hazards planning re- search and practice (co-PI)		
	Mentors: Professor John A. Knox (UGA) Jun.'22 – Jul. '23		
	This was a presidential seed-grant project involving using data from the UGA mesonet. I worked closely with professionals in the field of cli- mate/atmospheric sciences and even statistics to analyze massive datasets us- ing mostly SQL and Python.		
	Thermodynamic Profiles of Extreme Precipitation Events in Taiwan Mentors: Dr. Michael M. Bell (CSU) Jun. '21 – Aug. '21 I studied the thermodynamic profiels of extreme precipitation events in Tai- wan. I found results conclusive with literature. Here is where i fist started coding in Python and learned how to manipulate large datasets to do what I needed.		
Teaching experience	Teaching assistant, Department of Geography (University of Georgia) Fall 2023		
	GEOG 1112L: Introduction to Weather and Climate Lab		
	Coverage of all topics taught in main course from mesoscale meteorology to climate.		
	Teaching assistant, Department of Geography (University of Georgia) Spring 2024		
	GEOG 1112L: Introduction to Weather and Climate Lab Coverage of all topics taught in main course from mesoscale meteorology to climate.		
Talks and tutorials	Hurricane Michael through the Georgia MesonetJanuary 20232023 AMS Annual Meeting, Conference in Other Topics in Applied Climatol- ogy		
	Thermodynamic Profiles of Extreme Precip in TaiwanJanuary 2022AMS Student Conference Poster SessionJanuary 2022		

Skills	Programming		
	Proficient in: Python, R, MATLAB		
	Familiar with: SQL, Java, FORTRAN, C++		
	Operating Systems		
	Unix & Unix-like: Linux (Fedora, Ubuntu), MacOS		
	Windows		
Clubs	American Meteorological Society	Aug. 2020 – Present	
	UGA American Meteorological Society, Graduate Representative		
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	Chi Epsilon Pi Atmospheric Science Honor Society	•	
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