

# Keneshia Hibbert

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## EDUCATION

**Ph.D. | The Graduate Center of New York**

**Aug 2022 – Present**

Major: Earth and Environmental Sciences

**Master of Science | The City College of New York**

**Aug 2019 – Dec 2022**

Major: Earth and Atmospheric Sciences

**Bachelor of Science | Hunter College**

**Aug 2002 – Sept 2011**

Major: Environmental Science | Minor: Urban Studies

## RESEARCH EXPERIENCE

**Graduate Research Associate | The Graduate Center of New York**

**Aug 2022 – Present**

- Sea surface temperatures and their adverse effects on the environment, climate, and people

**Graduate Research Associate | The City College of New York**

**Aug 2019 – Dec 2022**

- How do changes to sea surface temperatures and vertical wind shear affects TC frequency and intensity in the Caribbean and the surrounding region

**Undergraduate Research Associate | CUNY Hunter College**

**Sept 2008 – Sept 2009**

- Monitoring Hunter College and Central Park's weather stations
- Determining statistically significant temperature differences between both stations
- Identifying interference caused by other weather occurrences

## TEACHING & MENTORSHIP EXPERIENCE

**Adjunct Lecturer | The City College of New York**

**Jan 2022 – May 2022**

Lab Instructor for the Earth and Atmospheric Science Department.

- Class: Prospectives of Global Warming. Professor: Dr. Padilla. TA for three sections, 50 students/section. Responsible for lab setup, intro lectures for each topic, quiz development, and grading.

**Adjunct Lecturer | CUNY Hunter College**

**Jan 2022 – Present**

- Class: Weather & Climate, Lab Instructor for multiple sections, 30 students/section. Responsible for lab setup, intro lectures for each topic, quiz development, and grading.

**Research Paraprofessional| The City College of New York**

**Jun 2022 – Aug 2022**

- Research Assistant and student mentor under the advisement of Dr. Jorge Gonzalez-Cruz facilitated through NOAA CESSRST Fellowship program: National Science Foundation (NSF) Research Experiences for Undergraduates (REU)

**Research Paraprofessional| The University of Albany (SUNY)**

**Jun 2023 – Aug 2023**

- Research Assistant and student mentor under the advisement of Dr. Jorge Gonzalez-Cruz facilitated through the University of Albany.

**Research Paraprofessional| The City College of New York**

**Jul 2023 – Present**

- Research Assistant for Dr. Nir Krakauer facilitated through NOAA CESSRST Fellowship program: National Science Foundation (NSF) Research Experiences for Undergraduates (REU)

## **INTERNSHIPS & FELLOWSHIPS**

### **NOAA EPP/MSI CESSRST Graduate Fellowship**

**Sept 2019 - Present**

- Conduct NOAA mission lead research and acquire the technical skill set necessary for workforce opportunities within NOAA and the NOAA mission enterprise.

### **NOAA Experiential Research and Training Opportunities (NERTO)**

**June 2021- Aug 2021**

- Expanded on warming sea surface temperatures and changes to TCs in the Caribbean and surrounding region, discovered seasonality shift in Atlantic TC season and the expansion of the Atlantic Warm Pool. Under the guidance of NOAA NESDIS (Tom Smith), work led to publication.

### **NOAA EPP/MSI CESSRST Undergraduate Fellowship**

**Sept 2019 - May 2022**

- Conduct NOAA mission lead research and acquire the technical skill set necessary for workforce opportunities within NOAA and the NOAA mission enterprise. Peer collaborative work under the guidance of Dr. Jorge Gonzalez-Cruz led to publication.

## **SKILLS**

- Proficient in MATLAB (programming language)
- Proficient in using Windows Terminal, Ubuntu, & Climate Data Operator (CDO)
- Some proficiency in Python (programming language)
- Proficient in Microsoft Office
- Proficient in Blackboard
- Some proficiency in ArcGIS, QGIS, & SEADAS

## **PRESENTATIONS**

- Hibbert et al., "*Observing Climatic Changes to SSTs, OHC, and VWS and their influence on Tropical Cyclone activity in the Caribbean and an expanding Main Developing Region.*" Presented at 103<sup>rd</sup> AMS Meeting, Boulder, Colorado, January 2023  
<https://ams.confex.com/ams/103ANNUAL/meetingapp.cgi/Paper/413816>
- Hibbert et al., "*Analyzing SSTs, VWS, and Convection as precursors to TC activity in the Atlantic MDR, 1982-2020.*" Presented at 102<sup>nd</sup> AMS Meeting (Virtual), January 2022.  
<https://ams.confex.com/ams/102ANNUAL/35cvc/papers/viewonly.cgi?password=425418&username=392808>
- Hibbert et al., "*Effects of Sea Surface Temperatures (SSTs) on Tropical Storm Activity in the North Atlantic.*" Presented at AGU Fall Meeting, December 2020 (Virtual)
- Hibbert et al., "*Multivariable Analysis of SSTs, VWS, and Convection as Precursors to TC Activity in the Atlantic MDR.*" Presented at NOAA's 46<sup>th</sup> Annual Climate Diagnostics & Prediction Workshop (CDPW), December 2021 (Work was published as a part of the extended summaries in their annual digest)

## **PUBLICATIONS**

Glenn, E.; Smith, T.M.; Gálvez, J.M.; Davison, M.; Hibbert, K.; González, J.E. Tropical Convection in the Caribbean and Surrounding Region during a Regional, Warming Sea-Surface Temperature Period, 1982–2020. *Hydrology* **2021**, *8*, 56.  
<https://doi.org/10.3390/hydrology8020056>

Hibbert, K.; Glenn, E.; Smith, T.M.; González-Cruz, J.E. Changes to Sea Surface Temperatures and Vertical Wind Shear and Their Influence on Tropical Cyclone Activity in the Caribbean and the Main Developing Region. *Atmosphere* **2023**, *14*, 999.  
<https://doi.org/10.3390/atmos14060999>

Oppong, F. B., Hibbert, K. K., and Gonzalez-Cruz, J. (August 29, 2024). "EXTREME HEAT IN THE CARIBBEAN: IMPACTS ON WELLBEING & BUILDINGS ENERGY INFRASTRUCTURE – THE 2023 SUMMER CASE–." ASME. *J. Eng. Sustain. Bldgs. Cities*. doi: <https://doi.org/10.1115/1.4066382>

Hibbert, K, Oppong, F.B., and Gonzalez-Cruz, J. (*Under Review*). "Future Projections of Sea Surface Temperature (SST) in the MDR and Wider Caribbean Region: Utilizing CMIP6 GCM Ensembles