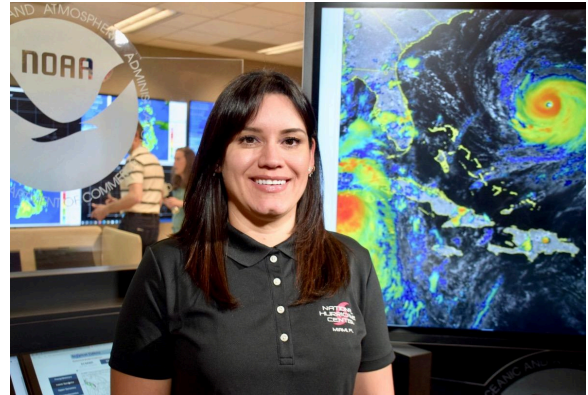


Keren Rosado-Vazquez Ph.D.

Marine Meteorologist National Hurricane Center

Keren Rosado-Vázquez, Ph.D., is a Surface Analyst at the Tropical Atlantic and Forecast Branch (TAFB) of NOAA's National Hurricane Center (NHC) in Miami, Florida.

While growing up in Puerto Rico, she experienced first hand the atmospheric phenomena of tropical storms and hurricanes. Experiencing their hazards, impacts, and the devastation that follows is what inspired her to pursue a career in Atmospheric Science. Keren has a Bachelor of Natural Science Degree in Mathematics from Universidad del Sagrado Corazón, Puerto Rico and a Master of Science in Meteorology from the Florida Institute of Technology. She continued her studies and earned a Ph.D. and completed two post-doctorates in Atmospheric Science from Howard University and the University of Miami. Her research experience with tropical meteorology and numerical modeling focused on assessing the needs of operational meteorologists and determining how best to fulfill them using novel parameterizations. She has worked on the evaluation and verification of several different numerical models, ranging from the global to the mesoscale, to find the most accurate and suitable configurations for tropical cyclone forecasts. Coming full circle, Keren completed the transition from research to operations in November 2020, by becoming a meteorologist at the Florida Keys NWS.



This Weather Forecast Office (WFO) is frequently impacted by tropical cyclones and oversees one of the largest WFO marine sectors, allowing Keren to acquire important marine forecasting experience. She also had the privilege of working during multiple high impact tropical weather events. Her roles in these events included issuing forecasts, area-wide warnings, creating graphics with a message easy to understand and perceive for social media in both English and Spanish, and providing media interviews. Another important part of her career has been communicating with the public and educating them on the different hazards that tropical cyclones pose to their lives and properties. In that aspect, she participated in multiple outreach efforts with varying stakeholders and audiences by providing weather and safety information.

In June 2023, Keren accepted a position in NHC, TAFB as a Surface Analyst and soon will begin training on the marine forecast desks. Aside from her regular duties as a Surface Analyst, Keren has assisted the NHC hurricane specialists with coordinating tropical cyclone watches and warnings for Spanish speaking countries. Additionally, Keren has provided Spanish interviews to the local and national media in regards to tropical cyclone forecasts.



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