

Philippe Papin, Ph.D.

Hurricane Specialist National Hurricane Center

Philippe Papin, Ph.D., is a hurricane specialist at NOAA's National Hurricane Center in Miami, Florida.

Dr. Papin received his Bachelor's Degree (2011) in Atmospheric Sciences at the University of North Carolina-Asheville before moving north to the University at Albany, receiving a Master's Degree (2014) and a Doctorate (2017) in Atmospheric Sciences. As an undergraduate, his research covered a wide variety of weather phenomena from upslope mountain snowfall in the Appalachians to developing new genesis predictors for tropical cyclone development. In graduate school, his research focus shifted to developing operational products for high-impact weather events, conducting his masters work on creating diagnostics to identify heavy rain producing broad low-level circulations over Central America. His doctorate work focused on an algorithm used to identify PV streamers, which are related to upper-level troughs that can negatively impact tropical cyclone activity.

Additional work as a teaching assistant earned him the Bernard Vonnegut Teaching Award from the University at Albany.

Afterwards, Dr. Papin was awarded a National Research Council Postdoctoral Scholarship to work at the Naval Research Laboratory in Monterey, California. While there, he provided forecasting support for a series of field campaigns involving atmospheric rivers (AR-recon), tropical cyclones (PISTON), and aerosol plumes related to fire-induced thunderstorms (FIREX-AQ).

In 2020, Dr. Papin joined the NOAA Environmental Modeling Center as a member of the Model Evaluation Group (MEG). Within



MEG, he evaluated NCEP's suite of model forecasts via high-impact case studies and general statistics, helping to provide critical feedback to future upgrades to this numerical weather guidance. Later that year, he was selected to join the National Hurricane Center as a Hurricane Specialist. The position involves the issuance of track, intensity, and wind radii forecasts as well as associated watches and warnings for tropical cyclones in the Atlantic and eastern North Pacific Ocean basins.

Dr. Papin has authored and co-authored many peer-reviewed scientific journal articles and served as an Associate Editor for the American Meteorological Society's (AMS) Monthly Weather Review journal from 2018–2023. He has given numerous presentations at scientific workshops and conferences around the world on various topics, including tropical cyclones, and has received several awards for presentation excellence by both the AMS and the American Geophysical Union (AGU). He is an active member of both AMS & AGU while also serving on AMS's Weather Analysis and Forecasting Committee since 2021.



January 2024