# Philippe P. Papin, Ph.D.

Senior Hurricane Specialist | National Hurricane Center – NWS/NCEP/NOAA | Miami, FL
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## EDUCATION

**Ph.D., Atmospheric Science**                                                                                     2017
University at Albany, SUNY; Albany, NY | Advisors: Lance F. Bosart & Ryan D. Torn
Dissertation: *Intensity Variations of Potential Vorticity Streamers: Development Pathways and Environmental Impacts in the North Atlantic Basin*

**M.S., Atmospheric Science**                                                                                      2014
University at Albany, SUNY; Albany, NY | Advisors: Lance F. Bosart & Ryan D. Torn
Thesis: *A Climatology of Central American Gyres*

**B.S., Atmospheric Science; Minor in Mathematics** – *Magna Cum Laude*                2011
University of North Carolina: Asheville, Asheville, NC | Advisor: Chris Hennon
Research Project: *Using the Rossby Radius of Deformation as a Forecasting Tool for Tropical Cyclogenesis*

## JOBS AND INTERNSHIPS

**Senior Hurricane Specialist** | National Hurricane Center /NWS/NOAA; Miami, FL          11/17/2024–Current
GS-1340 Grade-14 Step-01 – Full-Time - 40hrs/week - $132,626 per year

*Duties:*   Operational forecaster for path, intensity, radii, and impacts of hurricanes on a national level.
Conveying weather information and forecast to public, emergency managers, and other stakeholders.
Applied research to help improve prediction of hurricane formation, behavior, and forecast techniques.
Yearly reports of tropical cyclones and seasonal verification of genesis and forecasts.

*Accomplishments*: Local Isaac Cline Award in 2025 for developing new automated TC track maps for NHC website

**Hurricane Specialist** | National Hurricane Center /NWS/NOAA; Miami, FL          10/13/2020–11/16/2024
GS-1340 Grade-13 Step-04 – Full-Time - 40hrs/week - $121,151 per year

*Accomplishments*: **Temporary promotion to Senior Hurricane Specialist GS-14 in May–July 2024** (Forecasted Beryl)
National Hurricane Conference Outstanding Achievement Award in 2024 for 7-day GTWO.
NHC Peer Award in 2023 for helping to develop new Electronic Wall TC Track Map.
NWS Regional Isaac Cline Award in 2022 for forecasting assistance in Hurricane Ida.

**Support Scientist II** *(I.M. Systems Group, Inc.)*          07/06/2020–10/13/2020
40hrs/week - $75,000 per year
National Centers for Environmental Prediction | Environmental Modeling Center, College Park, MD
Model Evaluation Group: Developing tools and products to evaluate NCEP model upgrades

**NRC Postdoctoral Research Associate** | Naval Research Laboratory; Monterey, CA          01/15/2018–07/30/2020
40hrs/week - $85,398 per year
Research and forecasting on sub-seasonal tropical-extratropical predictability using coupled global models

**Research Assistant** | University at Albany, SUNY; Albany, NY          01/01/2012–12/31/2017
40hrs/week - $33,500 per year
Coding, research, presentations – Website: http://www.pppapin.com/research.php

**Teaching Assistant** | University at Albany, SUNY; Albany, NY          09/01/2011–05/31/2017
20hrs/week – $30,000 per year
Grading, lectures, website development

**GIS Spatial Analysis** | NEMAC; Asheville, NC          09/01/2009–05/31/2011
10hrs/week – Part-time job $1500 per year
GIS visualizations, climate progress reports

**Research Assistant** | University of North Carolina: Asheville; Asheville, NC          11/01/2007–7/31/2011
10hr/week – Part-time job $2000 per year
Research, field work launching radiosondes – Website: http://www.pppapin.com/research_bs.php

**WFO Student Intern** | National Weather Service; Greenville-Spartanburg, SC          06/01/2010–07/31/2010
40hrs/week – Volunteer Position -- Passed DLOC examination, Performed HMT duties, Assisted WFO forecast discussions

## PROFESSIONAL DEVELOPMENT

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|---|---|
| Planning committee for WMO-IWTC-11 | 2025–present |
| Temporary 120-day promotion to Senior Hurricane Specialist GS14 in May–July | 2024 |
| Co-Chair of the IWSATC-4 Meeting for the World Meteorological Organization | 2024 |
| Co-Organizer of the annual WMO RA-IV Workshop at NHC | 2023–present |
| AMS Weather Analysis and Forecasting Committee Member | 2020–present |
| NWS/WAF Conference Planning Committee Member | 2020–present |
| Associate Editor for the Monthly Weather Review AMS Journal | 2018–2023 |
| Operational Forecasting in AR-RECON, PISTON, and FIREX-AQ field campaigns | 2018–2020 |
| Collaboration with TAFB/NHC for real-time identification of Central American Gyres | 2016–present |
| Poster Judge for 6 different AMS and AGU conferences | 2016–present |
| First-author of 4 referred publications; Co-author of 3 referred publications | 2013–present |
| First-author of 30 conference presentations; Co-author of 15 conference presentations | 2010–present |
| Student Committee Member for faculty interviews to the University at Albany | 2013, 2014 |
| Fieldwork launching weather balloons in northwest flow snowfall events | 2008–2011 |

## SELECT HONORS AND AWARDS

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| NWS Local Isaac Cline Award | 2025 |
| National Hurricane Conference Outstanding Achievement Award | 2024 |
| NWS Regional Isaac Cline Award | 2022 |
| National Research Council Associateship Award covered by NRL Director' Program | 2018–2020 |
| Outstanding Poster Award | 98th Annual AMS Meeting; Austin, TX | 2018 |
| Bernard Vonnegut Teaching Award | University at Albany, SUNY; Albany, NY | 2016 |
| Winner of 10 WxChallenge Trophies | University of Oklahoma; Norman, OK | 2008–2019 |
| Outstanding Student Paper Award | AGU Fall Meeting: San Francisco, CA | 2014 |
| Academic & Research Excellence | University of North Carolina: Asheville; Asheville, NC | 2011 |

## TECHNICAL SKILLS

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| **Computer Languages:** | NCAR Command Language (NCL), Unix Shell Scripting, HTML, PHP, Python |
| **Storage:** | binary, netCDF, GRIB1/2, all text-based files (i.e., .csv, .txt) |
| **Datasets:** | ATCF, ERA5 Reanalysis, GFS analyses and ensembles, ECMWF analyses and ensembles, HRRR analyses, NASA–TRMM, NASA–GPM IMERG, NCDC–GridSat, NCDC–IBTrACS, NCEP–CFS Reanalysis (CFSR), NCEP-NCAR Reanalysis, NCEP/CPC Global IR Dataset |
| **Software:** | ArcGIS, AWIPS, BUFKIT, GFE, GRLevel2, GRLevel3, GR2Analysis Microsoft Office Suite (Word, PowerPoint, Excel), NCview, WeatherLink |
| **Website:** | I run an operational website hosted on Amazon Web Services (cloud computing server) which uses Linux and Apache. This hosts several real-time forecasting products that are used by the research and operational community, as well as a source for all my recent research projects. URL: www.pppapin.com |