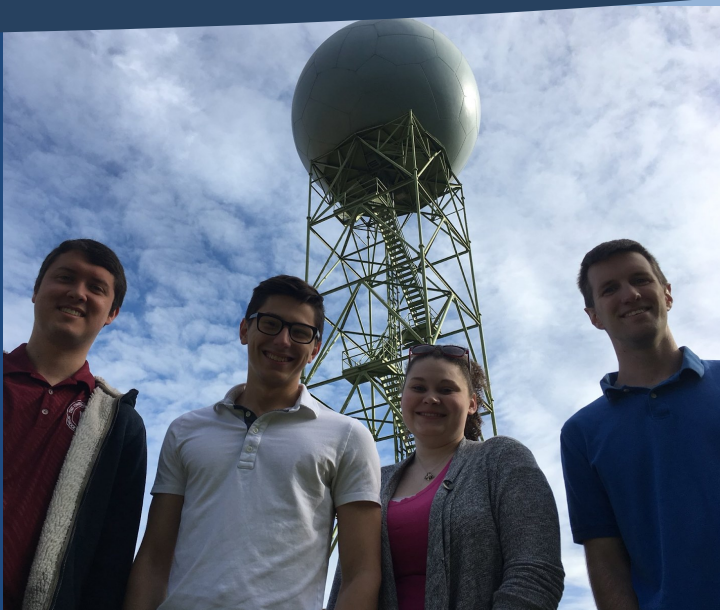# NC State Students Complete Summer NWS Course

By: James Morrow

August 24th, 2018

The National Weather Service (NWS) office in Raleigh, NC has a rich history of collaboration with NC State University, dating back well into the 1970s through numerous collaborative projects and research. This partnership continued to grow and strengthen through the later part of the of 20th century, and expanded from the research realm into student mentoring and volunteering in the 1990s. This allowed for the inclusion of numerous classes of NC State meteorology student volunteers over the years, many of which eventually found their way into the NWS, including five Wolfpack alumnus currently serving in our office!

The student volunteer program currently consists of 2 spring, and 2 summer volunteers, all of which get the opportunity to gather experience and insight into National Weather Service operations. On any given day, the volunteers find themselves working alongside meteorologists collecting data, making forecasts, issuing warnings, or completing forecast/product verifications. Other opportunities include visits to the NWS Radar site, upper-air site in Greensboro, NC, and maintenance visits at COOP Observer Sites, and an ASOS observing site in central North Carolina. While the experience tends to be beneficial to the students, the office also gains invaluable returns, as students provide crucial assistance during significant weather events that occur. Please join us in thanking the latest two student volunteers who have provided invaluable assistance for the spring 2018 semester!

[More information on the Science Collaborations between NC State and NWS Raleigh](#)

WEATHER READY NATION

Pictured from left to right: Shae McLamb (Spring 2018 student intern), Levi Lovell (Summer 2018 student intern), Maher Haddad (GSO Upper-Air Observer), Andy Wade (Summer 2018 student Intern), and Alex Mitchell (Spring 2018 Student Intern).

Andrew Wade

Andy Wade is a second-year Ph.D. student at North Carolina State University. He attended the University of Oklahoma from 2010 through 2016, graduating with a B.S. and M.S. in meteorology. As an undergraduate, he collected and maintained Oklahoma Lightning Mapping Array data and participated in the Deep Convective Clouds and Chemistry (DC3) field experiment. He also completed a research project on QLCS tornadoes at the Birmingham, Alabama NWS office through NOAA's Hollings program. Andy's M.S. thesis compared the near-storm and far-field environments of tornadic and non-tornadic supercells. While a graduate student, he participated in the Plains Elevated Convection at Night (PECAN) and Mini Mesoscale Predictability Experiment (Mini-MPEX) field campaigns. His ongoing work at NC State uses high-resolution simulations to explore how storms behave in tornado environments typical of the southeastern U.S.

Levi Lovell

Levi Lovell is a first-year M.S. student at North Carolina State University. He recently graduated from North Carolina State University with a B.S. in Meteorology. Levi was an undergraduate research assistant in Dr. Sandra Yuter's group (Environment Analytics) for nearly 3 years. His research projects included analysis of large data sets from multi-angle snowflake cameras and vertically pointing radars to assess snowflake variability within cool season extratropical cyclones. As a M.S. student, Levi's research will involve high-resolution simulations of tornadoes that form in environments common in the southeastern U.S. The expected outcome of this upcoming research project is an improved conceptual understanding of high shear-low CAPE (HSLC) tornado genesis that is tightly linked to radar observations. The long-range goal is to improve upon tornado warning practices in HSLC environments by recommending radar scan strategies and radar signatures of importance.

For more information on the National Weather Service in Raleigh visit http://www.weather.gov/raleigh.

For more information on the NC State meteorology program visit https://meas.sciences.ncsu.edu/.