



# NC State Students Complete Spring NWS Course

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By: James Morrow



[Click here for more information on the science collaborations between NC State and NWS Raleigh](#)

The National Weather Service 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 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 interns over the years, many of which eventually found their way into the NWS, including four Wolfpack alumni currently serving in our office!

The student intern program recently graduated three spring students currently completing or recently completed degree programs from [North Carolina State Meteorology](#). All of the students had the opportunity to gather experience and insight into National Weather Service operations. On any given day, the students found themselves working alongside meteorologists collecting data, making forecasts, issuing warnings, or completing forecast verifications. Other opportunities included visits to the NWS Radar site, an upper-air launch in Greensboro, NC, a Weather Event Simulation (WES) exercise, providing office tours and presentations, maintenance visits at COOP/ASOS observation sites, along with meet and greets with core partners.

While the experience certainly tends to be beneficial to the students, the office also gains invaluable returns, as students provide crucial assistance during significant weather events that occur. More information, including resources provided to the students, can be found on our webpage: [www.weather.gov/rah/students](http://www.weather.gov/rah/students).





*Pictured from left to right: Lindsay Hochstatter, Anthony Charlonis, and Seth Goodnight (Spring 2019 student interns), prepare the 00z Balloon Launch out at the Greensboro, North Carolina Upper-Air Observation Site.*

## **Lindsay Hochstatter Professional Profile**



Lindsay Hochstatter will be graduating from North Carolina State University in May 2019 with a B.S. in Meteorology and Minor in Environmental Sciences. As a student, she served as an undergraduate research assistant under Professor Dr. Sandra Yuter of Environment Analytics, working on a project regarding the distribution of propagation speeds of cloud-clearing boundaries in the Southeast Atlantic. Her work with Dr. Yuter led to several poster presentations at both the NC State Summer Undergraduate Research Symposium and the 99th Annual American Meteorological Society's Student Conference in Phoenix, AZ. She also served as an undergraduate TA, leading a section of the MEA 135: Intro to Weather and Climate lab to delve further into the realm of teaching. Following graduation, Lindsay will be pursuing her Master's degree in Earth Sciences at UNC Charlotte and performing research on how severe storms interact with heterogeneous environments and how to predict their demise under the guidance of a former NWS RAH intern and now professor!



## Seth Goodnight Professional Profile



Seth Goodnight will be graduating from North Carolina State University in May 2020 with a degree in Meteorology and Mathematics. He has worked on multiple research projects during his time as an undergraduate, studying tropical wave dynamics under Dr. Aiyyer at NC State and studying tropical climatology as part of Texas A&M's REU program during the summer of 2018. He has presented his research at NC State and Texas A&M undergraduate research symposiums and at the 2019 AMS student conference in Phoenix, Arizona. As a Hollings scholar, he will also be interning at the National Centers for Environmental Information in Asheville, NC during the summer of 2020, creating a historical retrospective of past western Pacific Typhoons. After graduation, he hopes to pursue a graduate degree in Meteorology, then continue his career in either an academic or forecasting setting.

## Anthony Charlonis Professional Profile



Anthony Charlonis will be graduating from North Carolina State University in December 2019 with a degree in Meteorology and a minor in Computer Science. As a student, he interned for Baron Advanced Meteorological Systems, worked for the State Climate Office of North Carolina, and worked on Tropical Cyclone Research with Dr. Anantha Aiyyer. His work with Dr. Aiyyer focused on Tropical Cyclone Acceleration Trends over the past 70 years, how the overall steering flow has changed, as well as if there are iterations with upper level troughs inducing enhanced recurving. At Baron, he worked on a flood plain model in the Green River Basin in Washington, as well as model development using WRF-Hydro. He is currently employed as an undergraduate assistant at the State Climate Office of North Carolina, where he works primarily on developing various agricultural meteorology web tools including: a Cotton Planting Tool, an Evapotranspiration Tool, as well as a Growing Degree Day Tool. Following graduation this fall, he will be commissioning as a Weather Officer in the United States Air Force.

**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/>.**