ROBERT J. VAN DER DRIFT

(919) 536-2442 | rjvander@ncsu.edu | https://robertvdd.github.io

Education

North Carolina State University | Raleigh, NC | Class of 2021   Aug 2017 - Present
- GPA: 4.00
- Majors: Applied Mathematics, Meteorology. Minor: Physics

Durham Technical Community College (Dual Enrollment) | Durham, NC   Aug 2016 - May 2017
- GPA: 4.00

Scholarships and Honors Programs

Hollings Scholarship | National Oceanic and Atmospheric Administration   May 2019 - Present
- Awarded to students in Earth Sciences pursuing research careers in line with NOAA's mission values

Goodnight Scholarship Program | North Carolina State University   Aug 2017 - Present
- Awarded to in-state STEM, middle class students attending North Carolina State University
- Meet and network with professionals across all STEM fields and careers

University Honors Program | North Carolina State University   Aug 2017 - Present
- Enroll in four unique, interdisciplinary "Honors Seminars"
- Complete a 4th year Capstone Project

Math Honors Program | North Carolina State University   Aug 2017 - Present
- Enroll in at least four graduate-level Mathematics electives
- Complete a 4th year Capstone Project

Research Projects

Hollings Internship | Pacific Marine Environmental Laboratory | Mentor: Michael McPhaden   May 2020 - Jul 2020
- Calculated latent heat flux by implementing COARE Algorithm (Fortran code)
- Analyzed variations in latent heat flux across multiple ocean basins, and across various time-scales
- Presented findings to PMEL office, and plan to present at AGU (Fall 2020) and AMS (2021) conferences

Undergraduate Research | North Carolina State University | Mentor: Anantha Aiyyer   Apr 2019 - Present
- Studying zonal structure and breakdown of Inter-tropical Convergence Zone
- Working with large meteorological datasets (e.g. ERA)
- Coding in Python to conduct scientific analyses (e.g. Fourier Analysis) and produce graphics
- Plan to present results at AMS conference (2021)

REU: Weather, Climate, and Society | University of South Florida | Mentor: Jennifer Collins   May 2018 - Jul 2018
- Interviewed 234 residents of Pinellas County, Florida about evacuation decision-making during Hurricane Irma
- Analyzed interview responses using statistical tools in SPSS, for differences in decision-making based on preferred news source
- Presented at University of South Florida REU Research Symposium, AMS Student Poster Conference (2019)
  - First place poster prize for WCS REU

Extracurricular Experience

Soundings Club   Feb 2018 - Present
- Launch radiosondes in notable weather events and discuss collected data. Data is used by the local National Weather Service office.

Climate Reality Project: Campus Corps | **Research Team Leader (2017-2021)**   Aug 2017 - Present
- Research policies and practices NC State can adopt to reduce its Greenhouse Gas Emissions:
  - Indirectly generate power from renewable sources (solar panel virtual PPA). Finished
  - Reinvest NC State Endowment from fossil fuels to renewable energy. Ongoing
- Delegate research subjects and tasks to committee members
- Lobby with top NC State Administration (Chancellor, Financial Officers) to adopt these practices

American Meteorological Society Student Chapter | **Treasurer (2019-2020), President (2020-2021)**   Aug 2017 - Present
- President: Host guest speakers from across all careers in atmospheric science
- Treasurer: Develop annual budget for funding monthly meetings

Skills

Programming
- Experienced in Python, LaTeX. Familiar with Fortran, C, JavaScript, HTML