

Anna VanAlstine

Dept. of Meteorology & Atmospheric Science, The Pennsylvania State University
530 Walker Building, University Park, PA 16802

EDUCATION

The Pennsylvania State University <i>Ph.D. in Meteorology & Atmospheric Science</i> <i>Bachelor of Science in Meteorology and Atmospheric Science</i> <i>Option: Atmospheric Science</i>	University Park, PA 2027 (expected) May 2022
The Pennsylvania State University <i>Bachelors of Science in Finance</i>	Erie, PA May 2010

PROJECTS

Analysis of Doppler Velocity in Three-Body Scattering Signatures for Use in Hail Size Estimation <i>Supervisor: Dr. Matthew Kumjian</i> <ul style="list-style-type: none">Investigate utility of RADAR Doppler velocity in three-body scattering signature for hail sizing estimation.Write algorithmic script in MatLAB on Linux OS for analysis and visual presentation of findings.Poster presentation acceptance at the American Meteorological Society's 21st Annual Student Conference to be held 22-23 January 2022	June 2021 – Present
SOM ANALYSIS of the MJO <i>Advanced Atmospheric Dynamics</i> <ul style="list-style-type: none">Self Organizing Maps analysis on surface air temperature for three domainsCalculated the frequency of occurrence for each SOM pattern at different time lagsInterpreted and presented results in course talk and paper	Aug. 2020 – Dec. 2020
Climate Research Project <i>Application of Computers to Meteorology</i> <ul style="list-style-type: none">Analyzed climate variability in snow cover extent and snow depth observations for time period of January 1967 to December 2019 by using CDR, NOAA and NASA data-sets.Utilized python modules such as numpy, pandas, cartopy, matplotlib, and additional various imported modules for analysis and visualization of findingsInterpreted and presented results in course talk and paper	Jan. 2020 – May 2020

PROFESSIONAL EXPERIENCE

Financial Assistant 3 <i>The Pennsylvania State University</i> <ul style="list-style-type: none">Budgetary reporting/processing for the Neil Gehrels SWIFT Mission Operations, the JPL NEID Spectrograph Instrumentation Project, NASA US Team contributions of ESA Athena Mission, Nanofabrication and Astronomical Instrumentation Program, and the ESCAPE and Arcus Proposed Mission conceptsFacilitate, create, and track project budgets, work breakdowns, and rough order estimates with Principal Investigators and program managersAnalyze accounting records for accuracy and completeness; research and solve basic accounting problems.Organized and directed local organizing committee for Panchromatic Transients in the 2020s conference.Developed and deployed meeting website for Panchromatic Transients in the 2020s conference.	December 2018 – Present University Park, PA
Member Business Relationship Manager <i>Small Business Specialist</i> <i>Loan Administration and Servicing Clerk</i> <i>SPE Federal Credit Union</i>	Jan. 2017 – Dec. 2018 Oct. 2015 - Dec. 2016 Jan. 2014 - Oct. 2015 State College, PA

TECHNICAL SKILLS

Languages: MATLAB, Python, HTML/CSS
Operating Systems: Mac OS, Linux, Windows
Software Tools: Adobe DreamWeaver, LaTeX, R Studio, MS Office Suite, Adobe Acrobat Pro, Spyder

AWARDS

<i>University Women's Club Scholarship Recipient</i>	2019 – 2022
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