Diana K. Apoznanski
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EDUCATION

2022-present	**Rutgers: The State University of New Jersey** Doctor of Philosophy in Atmospheric Science (Expected May 2027) Graduate Certificate in Coastal Climate Risk and Resilience (C2R2)	New Brunswick, NJ
2016-2020	**The Pennsylvania State University** Bachelor of Science in Meteorology and Atmospheric Science, May 2020 Specialization: Weather Risk Management Minor in Energy Business and Finance Certificate in Geographic Information Science (GIS)	University Park, PA

PROFESSIONAL EXPERIENCE

2022-present	**Graduate Assistant** Department of Environmental Sciences, Rutgers University Advisors: Dr. Robert Kopp and Dr. Anthony Broccoli - Student researcher on the National Science Foundation (NSF) funded Megalopolitan Coastal Hub (MACH) project. - Analyzing storm surge flood risk associated with extratropical cyclones in a changing climate.	New Brunswick, NJ
2019- 2022	**Associate Risk Analyst** The Hartford Insurance Group Catastrophe Modeling, Applied Research, and Global Specialty Teams, Insurance Risk Management Department - Investigate hazard vulnerability with respect to numerical catastrophe models to assess risk. - Use granular data analysis to provide an accurate assessment on perils such as earthquake, tornado, hurricane, flood, and wildfire. - Develop a GIS-based Tornado Micro-concentration model to identify tornado risk across the United States.	Hartford, CT
2018-2020	**Student Research Assistant** Department of Meteorology and Atmospheric Science, The Pennsylvania State University Mentors: Dr. David Titley and Dr. Jon Nese - Developed a geospatial method of verifying 2D maps of seasonal temperature forecasts. - Used ArcGIS and Python to analyze maps and calculate statistical analysis. - Awarded The 2019 Weather Information Technology Award from the Department of Meteorology and Atmospheric Sciences at Penn State University for this work.	University Park, PA

| 2018 | **Summer Undergraduate Laboratory Intern (SULI)** | Upton, NY |

Summer Undergraduate Laboratory Intern (SULI)
Brookhaven National Laboratory (BNL), United States Department of Energy (DOE)
Mentor: Dr. Michael P. Jensen
- Investigated convection patterns in the marine boundary layer using Atmospheric Radiation Measurement (ARM) Program data, satellite imagery
and Ka-band ARM zenith-pointing radar (KAZR).
- Analyzed disdrometer data using MATLAB to investigate precipitation properties.

TEACHING EXPERIENCE

Spring 2023 — Student Grader — New Brunswick, NJ
Department of Environmental Sciences, Rutgers University
- Graded assignments and examinations for Undergraduate Course INTRO CLIMATE SCI 11:670:102:01 taught by Dr. Anthony Broccoli
- Attended class sessions, helped facilitate in-class activities, and answered student questions.

2020-2022 — Math Tutor — Hartford, CT
The Actuarial Foundation, Math Motivators
- Tutor high school students in SAT mathematics exam preparation. Teach both testing material and testing strategies.

2018-2020 — Meteorology Tutor — University Park, PA
Chi Epsilon Pi Department of Meteorology and Atmospheric Science, The Pennsylvania State University
- Tutored meteorology majors in METEO 300: Fundamentals of Atmospheric Science, an upper level meteorology course.

AWARDS AND SCHOLARSHIPS

2019 — The 2019 Weather Information Technology Award — University Park, PA
Department of Meteorology and Atmospheric Science, The Pennsylvania State University
- Awarded for significant contributions to the use of advanced technology for specialized forecast applications at The Pennsylvania State University.

2016-2020 — Celius Family Scholarship in Meteorology — University Park, PA
Department of Meteorology and Atmospheric Science, The Pennsylvania State University
- $1,000.00 per academic year.
- Awarded to outstanding Meteorology students for their excellence in academic achievement.

2016, 2017	**Matthew J. Wilson Honors Scholarship** The College of Earth and Mineral Sciences, The Pennsylvania State University - $3,000.00 per academic year	University Park, PA
2016- 2020	**University Park 4 Year Provost Award** The Pennsylvania State University - $4,000.00 per academic year.	University Park, PA

TECHNICAL COMPETENCIES

For use with meteorological datasets:
- Matlab
- Python

For use with catastrophe modeling:
- AIR Touchstone
- RMS Risklink

For use with geospatial and statistical data:
- GIS
- SQL
- Excel
- R Studio

For use with collaboration and teamwork:
- Microsoft Outlook & Calendar
- Microsoft Teams
- Microsoft OneNote

PUBLICATIONS

Research article

2021	Jensen, M. P., Ghate, V. P., Wang, D., **Apoznanski, D. K.**, Bartholomew, M. J., Giangrande, S. E., Johnson, K. L., and Thieman, M. M.: Contrasting characteristics of open- and closed-cellular stratocumulus cloud in the eastern North Atlantic, Atmos. Chem. Phys., 21, 14557–14571, https://doi.org/10.5194/acp-21-14557-2021, 2021.	Upton, NY

PROFESSIONAL PRESENTATIONS

2023	**Diana K. Apoznanski**, (2023). *Modeling Extratropical Cyclones and Associated Flooding in the MACH Region*. Presented at the 1st Megalopolitan Coastal Transformation Hub (MACH) Annual Meeting	Camden, NJ
2019	**Diana K. Apoznanski**, Michael P. Jensen, Mary Jane Bartholomew, Virendra P. Ghate, Scott E. Giangrande, Karen L. Johnson. (2019). *Analysis of Precipitation Characteristics in Marine Boundary Layer Cellular Convective Clouds in the Eastern North Atlantic*. Poster presented at the 18th Annual American Meteorological Society (AMS) Student Conference	Phoenix, AZ
2016	**Diana K. Apoznanski**, Michael P. Jensen. (2016). *Investigations of Marine Boundary Layer Thermodynamic Structure and Cloud Characteristics*. Poster presented at the 2016 Long Island Science and Engineering Fair (LISEF)	Plainview, NY

ACADEMIC MEMBERSHIPS

2018-present	**Chi Epsilon Pi, National Meteorology Honors Society** Life Member

2018-2020	**American Meteorological Society** Student Member	

PROFESSIONAL SERVICE

2019- 2020	**President**, Weather Risk Management Club The Pennsylvania State University - Lead meetings with alumni in the weather risk management field. - Organized tours and networking events to local companies and government organizations. - Planned and conducted educational meetings for career development.	University Park, PA
2019- 2020	**Director,** Ambassador Communications for Earth and Mineral Sciences (EMS) Ambassadors The Pennsylvania State University - Coordinated ambassador schedules for meetings with prospective students, college tours, Q&A panels, and classroom visits. - Conducted tours on prospective student days and college-run events such as Earth and Mineral Sciences Expo (EMEX).	University Park, PA
2018- 2019	**Treasurer**, College of EMS Student Council The Pennsylvania State University - Managed council funds for meetings, events, and philanthropy. - Organized fundraising activities and oversaw the fundraising team. - Planned annual college formal networking event and oversaw the formal night planning team.	University Park, PA

REFERENCES

Robert Kopp, PhD
Professor and Co-Director, University Office of Climate Action, Department of Earth and Planetary Sciences, Rutgers University, New Brunswick, NJ, 08901
robert.kopp@rutgers.edu
Dr. Kopp is my advisor and professor at RU.

Anthony Broccoli, PhD
Distinguished Professor, Department of Environmental Sciences, Rutgers University, New Brunswick, NJ, 08901
broccoli@envsci.rutgers.edu
(848) 932 – 5749
Dr. Broccoli is my advisor and professor at RU.

David Titley, PhD
Affiliate Professor (ret.), Department of Meteorology and Atmospheric Science, The Pennsylvania State University, University Park, PA, 16802
wxcrisk@gmail.com
(831) 233 - 4265
Dr. Titley was my research advisor and professor at PSU.

Michael P. Jensen, PhD
Meteorologist, EE Cloud Process, Environmental and Climate Sciences Department, Brookhaven National Laboratory, Upton, NY, 11973
mjensen@bnl.gov
(631) 344-7021
Dr. Jensen was my research mentor for both the HSRP and SULI programs.