

Ethan C. Burwell

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U.S. Citizen | Selective Service Registered

NATIONAL WEATHER SERVICE EXPERIENCE

Pathways Intern; NWS Flagstaff, Flagstaff AZ

Supervisor: Brian Klimowski | brian.klimowski@noaa.gov | (928)-556-9161

- **Research Projects:**
 - Apache County Flash Flood Pattern Identification
 - Development of Arizona Monsoon Impact Index
- **Operational Training**
 - Operational experiences limited due to COVID telework
 - Upper Air certified with independent launches
 - Populated and edited grids with ForecastBuilder software
 - Populated and edited fire-weather grids
 - Observation of aviation grid procedure
 - Practiced WarnGen and HazardServices in practice mode
 - Wrote and published fire-weather discussion
 - Compiled and published Regional Temperature & Precip., product
 - Compiled and published Daily Climate Report
 - Conducted daily office briefing
 - Created and published multiple social media graphics
- **Community Outreach**
 - Flagstaff Festival of Science Presenter
- **Involvement**
 - 2020 Mountain Meteorology Conference Attendee
 - 2020 Indigenous Climate Conference Attendee
 - 2020 Road Weather Management Meeting Attendee
 - Weekly participation in WR STID Science Roundtable
 - Weekly participation in TOWR-S Satellite Book Club Seminar
 - Participation in NBM Development Discussions
 - Participation in WDTD Storm of the Month webinars
 - WPC Flash Flood Experiment call series

May '20 - Sep. '20
40 hrs./week
\$15/hr

Job Shadow; National Weather Service

- **NWS Mt. Holly, NJ**

Organizer: Sarah Johnson | sarah.johnson@noaa.gov | (609)-261-6600

 - Observed and assisted updating grids with forecast builder software
 - Participated in drafting long-term forecast discussion
 - Oriented to WarnGen and HazardServices; explored in practice mode
 - Oriented to and observed responsibilities of aviation forecaster
- **NWS Albany, NY**

Organizer: Mike Evans | michael.evans@noaa.gov | (518)-435-9580

 - Toured facility and oriented to roles and responsibilities of staff
 - Observed daily office briefing, UA launch, & pre-flight procedures
 - Oriented to WarnGen and ForecastBuilder

Feb. 17, 2020

Apr. 25, 2019

- **NWS Binghamton, NY**

Organizer: Mike Evans | michael.evans@noaa.gov | (518)-435-9580

- Toured office and radar site
- Oriented to roles and responsibilities of staff

Apr. 8, 2016

Conference Presenter; NWS Northeast Region Operational Workshop

Event coordinator: Tom Wasula | tom.wasula@noaa.gov | (518)-435-9580

- Independent research analyzed lead-times for northeast tornado warnings
- Investigated the correlation between various factors and lead-time

Nov. 2, 2017 NWS
Albany, NY

PROFESSIONAL EXPERIENCE

Graduate Fellow; Office of Emergency Management, Philadelphia PA

Supervisor: Ryan Ford | ryan.ford@phila.gov | (215)-686-1300

- Participated in severe weather briefings with NWS Mount Holly, NJ
- Actively participated in on-site deployments, drills, and EOC activations
- Developed local climate module to aid in assessment of hazards
- Assessed and engaged in crisis communication
- Analyzed emergency operation procedures

Nov. '19 - May '20
25 hrs./week
Volunteer

Assistant Climatologist; Northeast Regional Climate Center, Ithaca NY

Supervisor: Arthur DeGaeano | atd2@cornell.edu | (607)-255-1751

- Reviewed climate data from observation networks
- Collected daily weather data and maintained weather instruments
- Remotely briefed state farmers on weather summaries & forecasts weekly
- Transmitted regional weather archives to third parties
- Utilized Python and Excel to analyze historical meteorological data

May '15 - May '16
10 hrs./week
\$15/hr.

Operational Forecaster; KingstonSnows.webs.com, Kingston NY

- Composition of tailored forecasts for the public
- Development of graphical hazard products
- Distribution of specialized notifications to local partners
- Dissemination and amplification of special severe weather statements
- Utilization of numerical modes to create short and long range forecasts
- Utilization of upper air, radar, satellite, and in-situ surface observation data

Jan. '09 - Present
10 hrs./week
Volunteer

Earth Science Instructor; Marist College Upward Bound, Poughkeepsie NY

Supervisor: Gladys Negron-Collier | gladys.negron-collier@marist.edu | (845)-575-3258

- Developed and implemented interactive lessons for 45 high school students
- Worked with struggling students to ensure content comprehension
- New York State Earth Science Regents preparation for 10 high-risk students

Jun. '16 - Aug. '16
40 hrs./week
\$20/hr.

Teaching Assistant; EDUC 2410 Art of Teaching, Cornell University

- Studied various communication techniques for diverse audiences
- Regularly planned and instructed classes of up to 30 college students
- Created interactive meteorology lesson plans for elementary schools

Jan. '16 to May '16
10 hrs./week
Academic

Registered Nurse; HealthAlliance Hospital, Kingston NY

Supervisor: Carol Redmond | (845)-331-3131

- Worked on surgical, respiratory, cardiac, COVID, and intensive care units
- Solved critical problems in acute settings throughout 12-hour night shift
- Implemented effective actions based on strategic prioritization
- Continuously adapted to acutely changing environment
- Communicated complex information to novice populations

Oct. '16 - May '20
40 hrs./week
\$42/hr.

LEADERSHIP EXPERIENCE

Education Chair; American Meteorological Society, Cornell Chapter

- Organized / oversaw 19 interactive educational events in the community
- Compiled all event details into reusable booklet for future years
- Achieved Weather-Ready Nation Ambassador certification

May '15 - May '16
5 hrs./week
Volunteer

Student Government President; Ulster Community College

- Facilitated collaboration between administration, students, and 28 clubs
- Implemented productive new forms of campus communication
- Represented Ulster at the State University of New York Student Assembly

May '12 - May '14
10 hrs./week
Volunteer

New York State Youth Bureau Presenter, Annual Youth Leadership Forum

- Leadership development workshop for high school students
- Developed interactive presentation focusing on leadership behaviors
- Utilized "The Five Practices of Exemplary Leadership" model

Feb. 14, 2014
Albany, NY

EDUCATION

B.S. Atmospheric Science; Cornell University, Ithaca NY

- Concentration: Public Education

2016
GPA: 3.246

M.S. Emergency Management; Millersville University, Millersville PA

- Concentration: Crisis Communication

2020
GPA: 4.000

ADDITIONAL

Technology

- Video Editing: extensive experience with numerous software, including Adobe
- Video Production: extensive experience filming and performing on film
- Microsoft office: highly proficient in all Office products
- Python programing: proficient in mapping weather variables

Training

- **Commerce Learning Center (as 2020 Pathways Intern)**
 - NWS 101 - New Hire Orientation Plan
 - IDSS PDS: Unit 1 Baseline IDSS Training
 - IDSS PDS: Unit 2 Baseline IDSS Training
 - IDSS PDS: Unit 3 Baseline IDSS Training
 - Intermediate Wildland Fire Behavior
 - Digital Aviation Services Curriculum
 - FY20 Warning Operations Course - Flash Flood
 - Convection-allowing Models: Winter Applications
 - NBM v3.2 Winter Weather Guidance
 - Hazard Services IOC User Training
 - Forecast Builder
- **NWS Supplemental (as 2020 Pathways Intern)**
 - Utilization of ObsStudio and XmACIS
 - Familiarization with IRIS and FGZ SDM
 - Completion of all required safety trainings
 - Completion of Fire Weather and Hazard Services drills
- **Independent**
 - Completion of 16 UCAR Meteorology MetEd modules
 - Completion of 38 FEMA I.S. Emergency Management modules

References

- **Andrew Taylor** | (928)-556-9161 | Andrew.Taylor@noaa.gov
- **Danielle Loftus** | (845)-443-1140
- **James DeArce** | (845)-206-2485