

Graduate Fellowships

AMS GRADUATE FELLOWSHIP

(Deadline: 13 January 2017)

- **Eligibility**
 - Entering his or her first year of graduate study in the fall of the current year
 - Pursuing a related full-time course of study in the atmospheric, oceanic, or hydrologic sciences over a full academic year
 - Minimum GPA of 3.25
 - U.S. citizen or hold permanent resident status
- **Award**
 - \$25,000 stipend
 - Travel funds to attend the AMS Annual Meeting
- **Application Requirements**
 - Completed application form
 - Official transcript
 - GRE scores
 - Three references

NATIONAL SCIENCE FOUNDATION GRADUATE

RESEARCH FELLOWSHIP

(Deadline: October 24, 2016)

- Eligibility
 - US citizen, US national, or permanent resident
 - Intend to pursue a research-based Master's or Ph.D. program in a NSF-supported field
 - Completed no more than twelve months of full-time graduate study (or the equivalent) as of August 1, 2016
- Award (36 month tenure for funding)
 - Three year annual stipend of \$34,000
 - \$12,000 cost of education allowance per year
 - Study abroad opportunities, ability to work with domestic government agencies, and professional development
 - Freedom to conduct research at any accredited U.S. institution
- Application Requirements
 - Completed application form
 - Two essays
 - Personal statement
 - Research proposal
 - Un/Official transcript
 - Three references

NATIONAL DEFENSE SCIENCE AND ENGINEERING GRADUATE FELLOWSHIP

(Deadline: Dec. 9, 2016 @ 5pm)



- Eligibility
 - U.S. Citizens or Nationals of the U.S.
 - Must receive Bachelor's by Fall 2017
 - Completed less than 2 full-time grad. years
 - Must be at U.S. institution of higher ed.
- Award (36 month tenure)
 - Full Tuition and Fees (not room & board)
 - Stipend - \$34,000 per year for 3 years
 - Health Insurance (up to \$1000)
 - No additional travel allowance
- Application Requirements
 - Completed application form
 - One essay \leq 3000 characters (~250 words)
 - Research type | specific research question
 - Long term goals | interest to DoD
 - (Un)Official Undergraduate/Graduate Transcript
 - GRE Scores
 - Three LORs
- Statistics: ~200/+3000 awarded

Undergraduate Research Opportunities

Significant Opportunities in Atmospheric Research & Science (SOARS)

Erin Dougherty
October 6, 2016



What is SOARS?

- A summer research internship at the National Center for Atmospheric Research (NCAR), UC Boulder, or NOAA in Boulder, CO.
- Focused on increasing diversity in atmospheric sciences
- Undergraduate to graduate bridge program- can participate up to four summers or until you obtain your Master's



Details

- **Eligibility:**

- Completed 2 years of college (but can't be graduating senior)
- GPA >3.0
- Majoring in atmospheric science or related fields
- Have U.S. citizen or permanent resident status

- **Application Requirements:**

- Two letters of recommendation
- College transcripts
- SOARS application- basic information and two essays
 - 1- Academic statement of purpose
 - 2-SOARS mission and personal journey

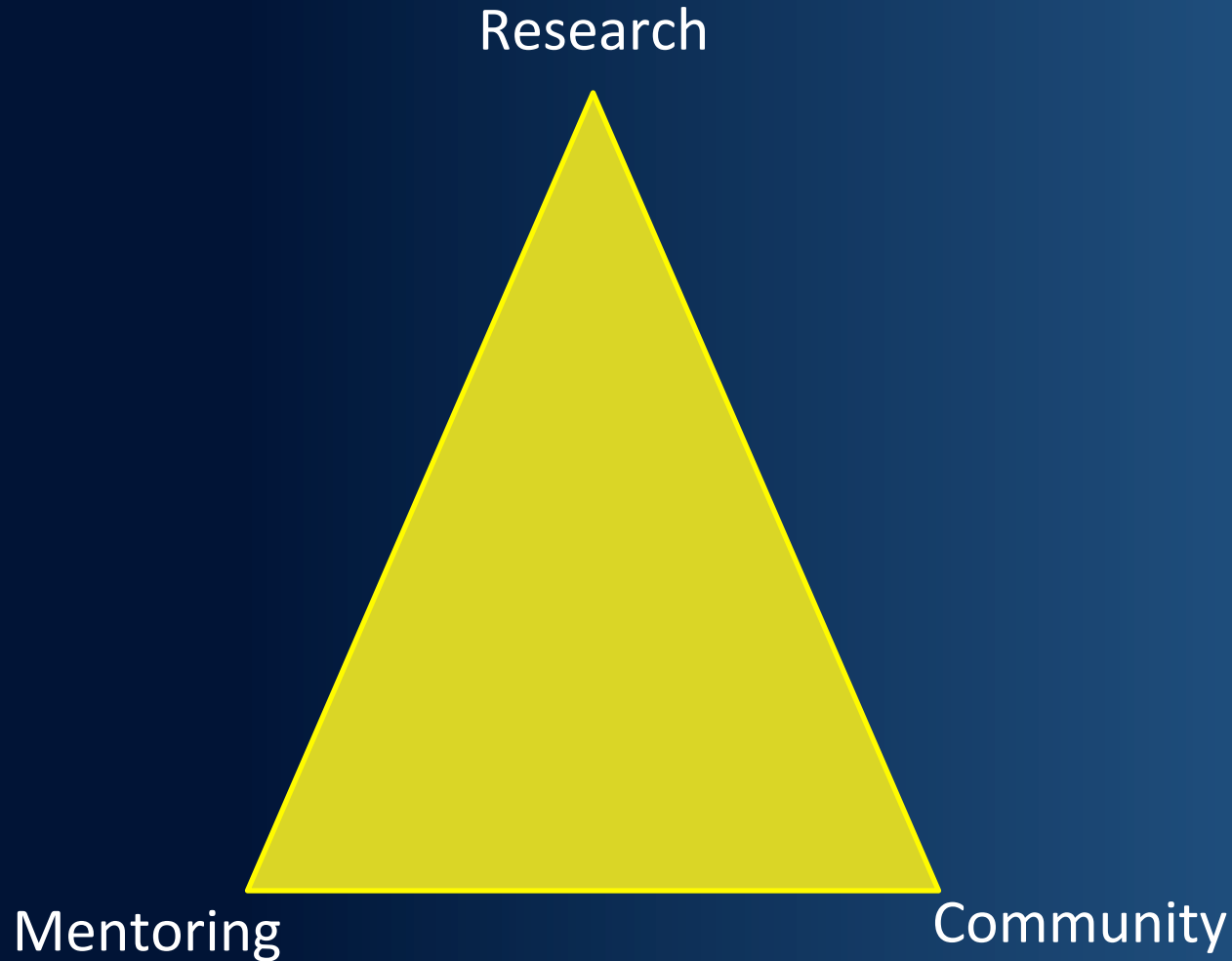
- **Funding:**

- Stipend and housing provided
- Travel costs covered
- Conference and school funding available

**Deadline: End of
Jan./ Start of Feb.!**



What Makes SOARS Unique?



Why SOARS?



NOAA Ernest F. Hollings Scholarship

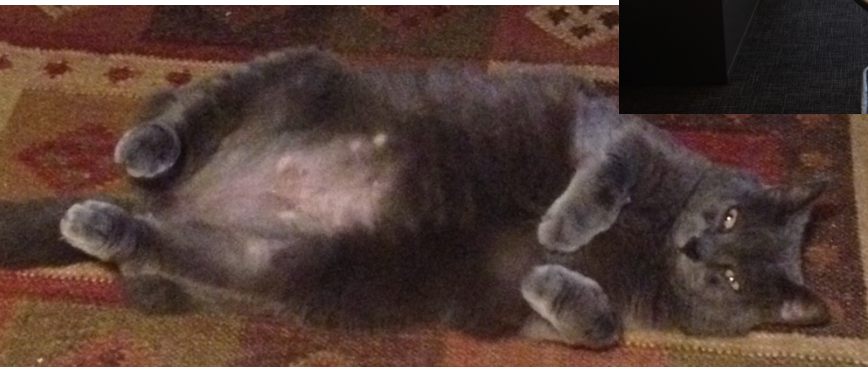
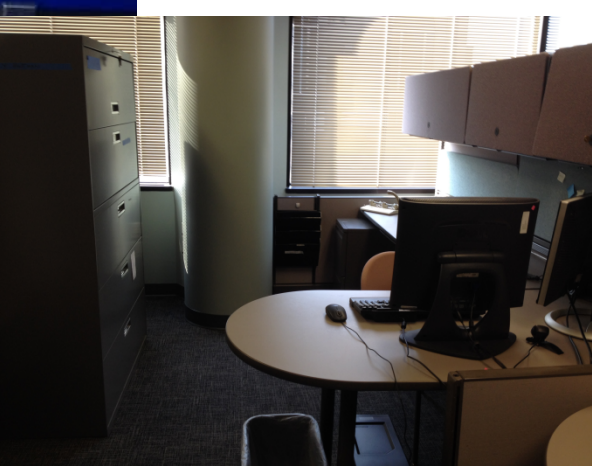
- **Apply Sophomore year**
 - Application due at the end of January
- **Benefits**
 - Travel to Orientation and Symposium in Silver Spring, Maryland
 - Travel for site visit
 - \$9,500 your Junior and Senior Year
 - \$700/week paid internship at NOAA Office
 - Housing Stipend
 - Travel to 2 conferences to present your research
 - Feedback on your application

Application Help

- Be yourself! They want to know what you want to do and who you are!
- Don't feel like you need to be all science-highlight your extra curriculars
- Find a faculty member who can write you a GREAT recommendation letter
- Feel free to contact me!
mehowarth@albany.edu

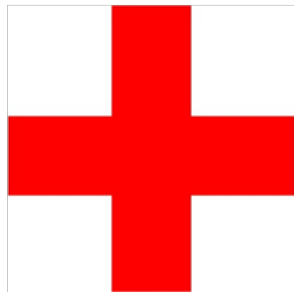
- *Weather-Ready Nation (WRN) is a NOAA strategic goal that increases community readiness, resilience, and responsiveness in the face of extreme weather, water, and climate events in order to reduce their impact*
 - Improving internal products and forecasts
 - Increasing external engagement and communication







FEMA



**American
Red Cross**



United StatesTM
Census
Bureau



U.S. National Weather Service (NWS) · Owlle Skywarn

November 3 at 9:31am ·

#TriviaTuesday! How many local Weather Forecast Offices are there? 50, 78, 122, or 189? The answer at 1pm ET!



Like Comment Share

30 people like this.

2 shares



U.S. National Weather Service (NWS) · Owlle Skywarn

October 23 ·

#FactFriday. Straight line winds can exceed 100 mph. They can damage homes, knock down trees and powerlines, blow vehicles off the road, and turn everyday objects into dangerous flying debris. Learn how to stay safe: weather.gov/om/wind



Like Comment Share

39 people like this.

26 shares



NWS Owlle Skywarn @NWSOwlleSkywarn · Oct 30

#FactFriday The fastest wind in the US ever recorded was 231mph on April 12, 1934 on Mount Washington.



3 4



NWS @NWS · Jul 3

Enjoy your S'mores, but When Thunder Roars, Go Indoors this Fourth of July! [#July4Safety](http://weather.gov/lightning)

When Thunder Roars, Go Indoors!

STOP all activities.

Seek shelter in a substantial building or hard-topped vehicle.

Wait 30 minutes after storm to resume activities.

www.lightningsafety.noaa.gov



RETWEETS 74 FAVORITES 40



10:00 AM · 3 Jul 2015 · Details

Retweet Favorite

Hide photo

Ready for a trip to the beach!

June 9, 2015

I love going to the beach! I like to build sand castles, swim, and go boogie boarding! But when I go into the ocean, I always remember how powerful waves can be. Rip currents are strong currents moving away from the beach that can carry a swimmer towards the ocean. When waves crash on the shore, the water flows back towards the ocean. If the flow towards the ocean becomes stronger than the waves coming in, a rip current is formed. I also pay attention to when waves are above my head, so I know it's time to move closer to shore. Before I head out to the beach, I always check out weather.gov to see if there are rip current warnings or high waves forecast for my beach. When I get to my beach, I look to see if there are beach warning flags out and check in with my lifeguard. And I always swim with a buddy! Visit weather.gov/beach for more safety tips!



I always swim at beaches with lifeguards on duty!

Weather Education

This page offers information for children, teens and adults. Materials range from coloring books, puzzles and games, to lesson plans, brochures, satellite images, and career information for weather related fields, such as meteorology, hydrology and climatology.

- Classroom Materials
- Student Sites
- Graphics, Photos, Images
- Glossary, Bibliography
- Other Weather Sites
- Careers in Weather
- Training Portal
- Other links

Classroom Materials

- Safety Brochures, Booklets, etc. on weather topics
- Videos, slides, books, posters, charts, software, calendars, more!
- Ideas and sources of ideas for classrooms
- K-12 outreach activities in weather and climate
- [Lightning safety games, activities, lesson plans for Teachers](#)
- [National Severe Storm Lab Education Page](#)
- [How to keep your school safe during hazardous weather](#)
- [National Science Education Standards](#)
- [Clouds Out My Window](#), an introduction to cloud science, [ppsx show](#), [pdf](#)
- [Clouds Out My Window](#), an introduction to cloud science, [ppt template](#) for students to use making a personal cloud show

Student Sites

- [Play time for kids](#)
- [Climate games, activities, links, materials](#)
- [FEMA's homework for kids](#)
- [FEMA's kid links](#)
- [Jetstream and Weather](#)
- [Student Guide to Weather](#)

Graphics, Photos, Images

- Satellite images
- Images from NOAA Library collection
- Lightning photos

Glossary

- [Glossary of Weather Terms](#)

Other Weather Sites

- Local NWS Offices: K-14 educational activities, office tours, brochures, etc.
- National Oceanic and Atmospheric Administration (NOAA) educational site
- NOAA science initiatives
- NASA's Education Site (Satellite Weather)
- National Severe Storm Laboratory resource listing for teachers
- The American Meteorological Society's Education Page
- The Weather Channel Teacher Advocates

National Weather Service

Office of Climate, Water, and Weather Services

Playtime for Kids



Hurricanes



Winter Storms



Tornadoes



Thunderstorms/
Lightning



Floods



Safety Tips



General Weather Info



Other Fun Stuff

NOAA, National Weather Service
Office of Climate, Water, and Weather Services
1325 East West Highway
Silver Spring, MD 20910
Questions? Comments?

[Disclaimer](#)
[Help/Viewers](#)
[Glossary](#)

[Privacy Policy](#)
[About Us](#)
[Career Opportunities](#)

<http://www.nws.noaa.gov/os/reachout/kidspage.shtml>
Last Updated: February 22, 2008

NWS EDUCATION

Learn Science and Safety with Owlie Skywarn



Fun With Owlie

Flat Owlie
TakeOwlie with You

Read Owlie's Journal

Owlie's Weather
Ready Activity

Become a Young
Meteorologist

Weather Science

Kids and Teens

Parents and Teachers

Weather Safety

Kids and Teens

Parents and Teachers

NWS Publications and
Brochures

Follow Owlie



NASA DEVELOP INTERNSHIP

***SUMMER APPLICATION WINDOW:
JAN 9 -FEB 17, 2017***

- Eligibility
 - At least 18 years of age
 - U.S. citizenship
 - Cumulative 3.0 GPA or higher (on 4.0 scale)
 - Ability to provide personal transportation to and from the DEVELOP location
 - Either currently-enrolled undergraduate or graduate student, individuals who have graduated with a degree within the last two years, or “individuals transitioning to a new career field, who are pursuing further experience in the Earth sciences and remote sensing”
- Award
 - Stipend – varies by education level (~\$2,000 for undergraduate level*)
 - Some assistance may be awarded for initial transportation to area

- Application Requirements
 - Application form
 - Formal resume
 - Unofficial academic transcripts, including the term before the one to which you are applying. (Official transcript required upon selection)
 - 2 References (name and contact information; preferably one academic and one professional)

Spring 2017 Term:

- Application Window: August 29 - **October 7**
- Letters of Recommendation Due: October 21
- Applicant Notifications: November - December
- Term Dates: January 23 – March 31

Summer 2017 Term:

- Application Window: **January 9 – February 17**
- Letters of Recommendation Due: March 3
- Applicant Notifications: April
- Term Dates: June 5 – August 11

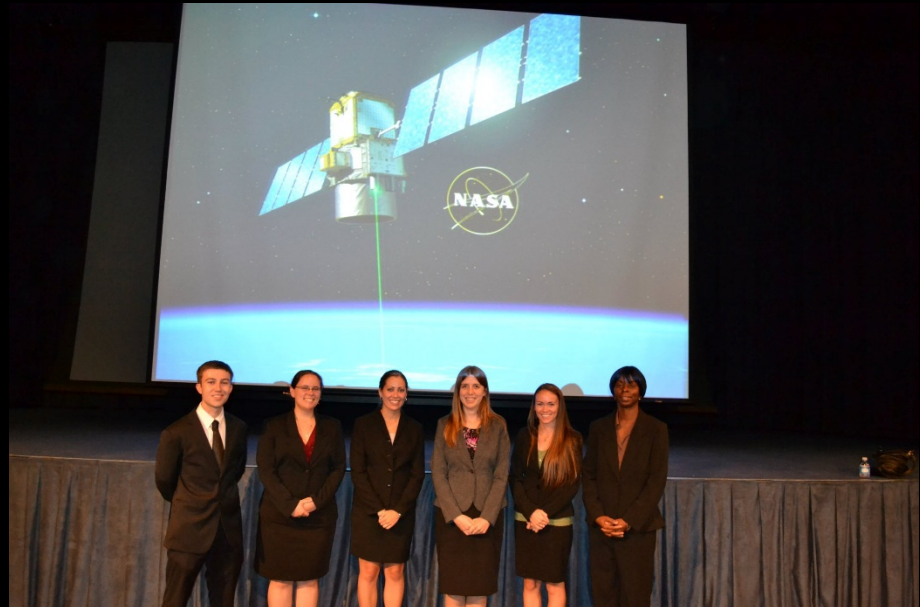


PROGRAM STRUCTURE AND BENEFITS



“Mission: Integrating NASA Earth observations with society to foster future innovation and cultivate the professionals of tomorrow by addressing diverse environmental issues today.”

- Typically a team project; groups range in size from 1-8 people
- Project/deliverable-oriented program experience
- Professional development workshops (including presentation skills)
- In-depth familiarity with NASA remote sensing projects



SOME RESOURCES

Sample Spring 2017 Proposals:

- Chile Water Resources: Integrating **Satellite Precipitation Data into Drought Monitoring** for Enhanced Agricultural Management in Chile (NASA Ames Research Center – Moffett Field, CA)
- New York Ecological Forecasting: Utilizing **NASA Earth Observations to Effectively Track and Predict Prevalence of Lyme** and Other Tick-borne Disease at the United States Military Academy (USMA) at West Point and Surrounding West Point Community (NASA Goddard Space Flight Center – Greenbelt, MD)
- Glacier National Park Ecological Forecasting II: Utilizing NASA Earth Observations to **Correlate Landscape Disturbances to Effects of a Changing Climate** across Glacier National Park (NASA Langley Research Center – Hampton, VA)
- Alabama Agriculture: **Analyzing and Assessing Drought Conditions** for Agricultural Crops across Alabama (NASA Marshall Space Flight Center – Huntsville, AL)
- Coastal Disasters: Utilizing NASA Earth Observations, NOAA Climate Data Records, and International Space Station Data to **Enhance Methods of Measuring and Tracking Cyclones** (NOAA National Centers for Environmental Information – Asheville, NC)
- Arizona Water Resources: Assessing **Tamarisk Invasion Risk in Riparian Areas** Using Landsat 8 for Riparian Restoration Efforts (USGS at Colorado State University – Fort Collins, CO)
- Costa Rica Water Resources II: **Monitoring Drought and Water Balance** in the Guanacaste Province to Enhance Decision Making and Response Planning in Costa Rica (University of Georgia – Athens, GA)
- Phoenix Health & Air Quality: Utilizing NASA Earth Observations to **Reduce the Impact of Extreme Heat on Transit Riders** in Phoenix, AZ (Maricopa County Department of Public Health and Arizona State University – Tempe, AZ)

Program Webpage (check out the program sites!)

<http://develop.larc.nasa.gov/about.html>

YouTube Page (the media group has a lot of fun)

<https://www.youtube.com/user/NASADEVELOP>

Earthzine Poster Presentations (past and current)

<http://earthzine.org/develop/>

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- Phoenix Health & Air Quality: Utilizing NASA Earth Observations to **Reduce Air Pollution** in Phoenix, AZ (Maricopa County Department of Public Health and Arizona State University)

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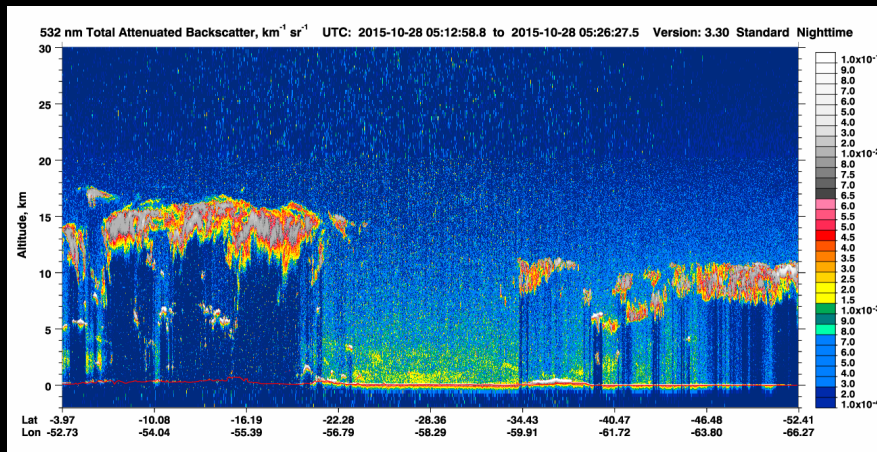
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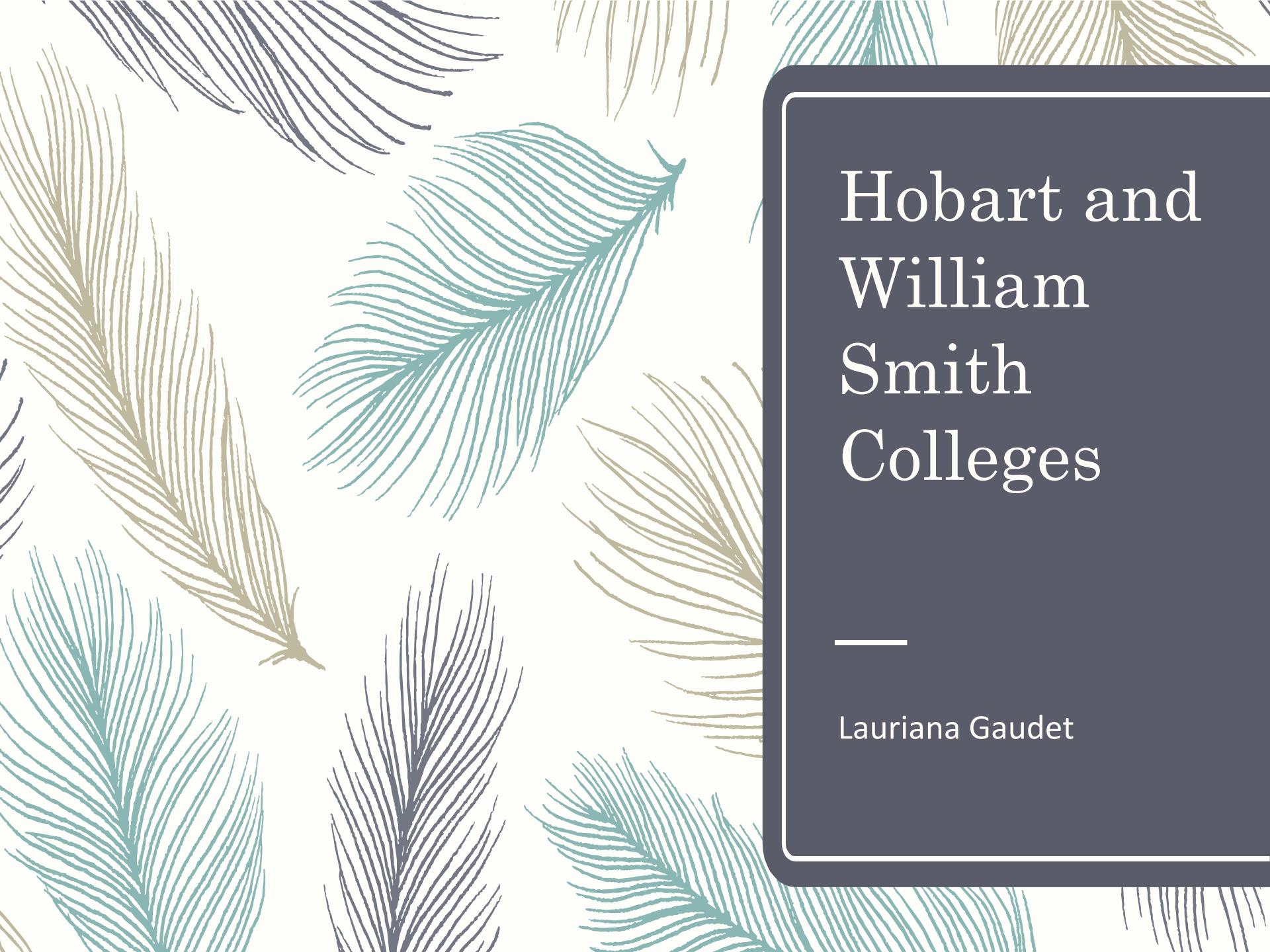


CALIPSO MISSION SUMMER 2011

- Synthesized ancient FORTRAN code packages with in-house trajectory modeling (RK4-ish methods) with new code to automatically retrieve CALIPSO particle measurements and compute forward- and back-trajectories
- 6-member group; two mathematicians, two computer scientists, and two meteorologists
 - Were able to share experiences and meet a variety of stretch goals due to our unique backgrounds
- Presented at poster session with other groups at the National Office in Washington D.C.
- Learned about trajectory modeling, remote sensing, and professional presentations

It's what got me interested in what I'm doing now
as a graduate student!





Hobart and William Smith Colleges

Lauriana Gaudet

Where is this internship?







General Questions

- Can I apply?
 - All undergraduates can apply, including graduating seniors
- What kind of funding will I receive?
 - Stipend \$4,400 for 2 months of research
 - Housing on campus
 - Travel to/from Geneva
 - Conference travel/lodging
- What will I be researching?
 - Some type of winter weather phenomena (i.e. lake-effect snow processes)



Application Process

- Application opens in November/December
- Go to <http://people.hws.edu/laird/> to access application materials
- 2 references
- Statement of interest
- Deadline: Late January/Early February

National Weather Center REU

(Deadline: ~Early February 2017)

Eligibility

- US Citizen or permanent resident
- Current 1-3rd year students in a 4 year undergraduate program

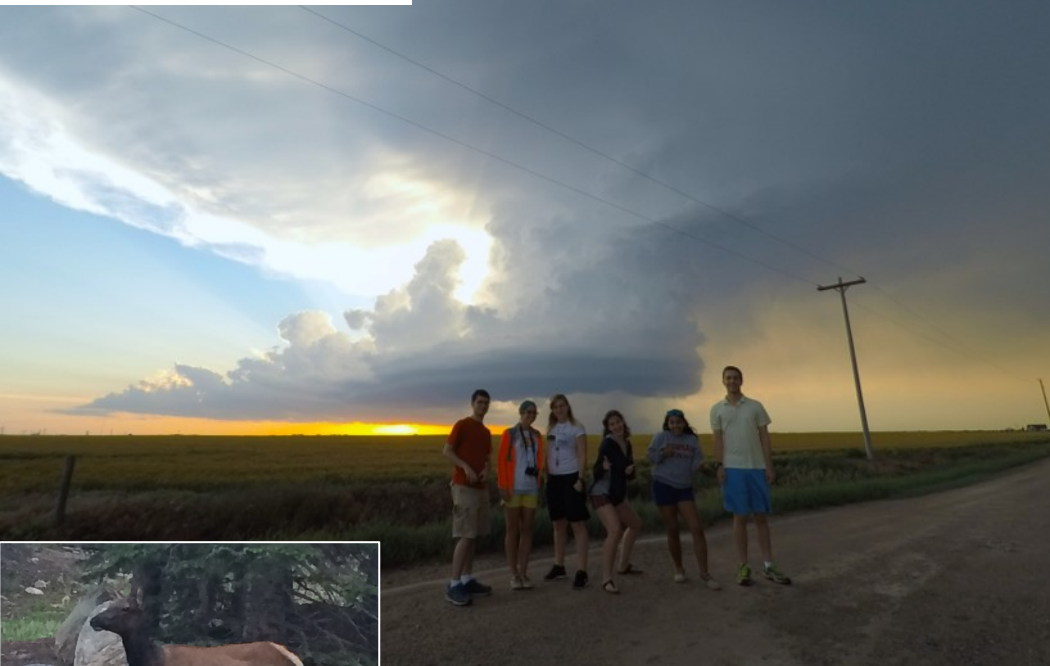
Application Requirement

- Application form
- Three short essays
- Two references
- Official transcript

Award

- Stipend: \$5000
- Some subsistence & travel to/from Norman, OK covered
- Housing provided
- Up to \$1500 funding for traveling to national conference

"Superselfie"



ELKS!



NWC

Rockies



Snow in June



4th of July "Fireworks"



Awesome pizza

Scholarships

AMS SENIOR NAMED UNDERGRADUATE SCHOLARSHIPS

(Deadline: 3 February 2017)

- Eligibility
 - Junior undergraduate students
 - Major in the atmospheric or related sciences
 - Cumulative GPA of 3.25
- Award
 - Varies, but generally between \$2,000 and \$10,000
 - Travel funds to attend the AMS Annual Meeting
- Application Requirements
 - Completed application form
 - Official transcript
 - Three references



National Weather Association Scholarships

Lauriana Gaudet



Open Scholarships

- **The Arthur C. Pike Scholarship in Meteorology**
 - Eligibility: Any undergraduate going into junior year or higher or graduate student
 - Award: \$1000 + Free NWA Membership
- **The NWA Phillips Family Undergraduate Scholarship for Meteorology**
 - Eligibility: Undergraduates Only
 - Award: \$1000 + Free NWA Membership
- **The NWA Bob Glahn Scholarship in Statistical Meteorology**
 - Eligibility: Undergraduates Only
 - Award: \$2500 + Free NWA Membership

A large, light brown feather graphic is positioned on the left side of the slide, extending from the bottom towards the top. It has a central rachis with many fine, radiating barbs.

Other Information

- All Deadlines: November 10, 2016
- Application Materials:
 - *Transcripts*
 - *2 recommendations*
 - *Personal essay*

NATIONAL WEATHER ASSOCIATION

SCHOLARSHIPS

(Deadline: varies based on scholarship)

- Eligibility
 - US citizen, US national, or permanent resident
 - Undergraduate and graduate students
 - Some scholarships require an interest on a specific topic within **meteorology**
- Award
 - Varies, but generally between \$1,000 and \$2,500
 - Free NWA membership
 - In my opinion, these scholarships generally have less applicants!
- Application Requirements
 - Completed application form
 - Statement explaining why you are applying for the scholarship
 - Un/Official transcript
 - Two references