

The Many Facets of Eclipse Outreach

LAURA PETICOLAS, SONOMA STATE UNIVERSITY

LAURAP@UNIVERSE.SONOMA.EDU

TWITTER: @LAURAURORA

SONOMA STATE



E E

Thank you to my collaborators and partners

- Sons
- Husband
- Family and Friends
- Sonoma State University EdEon STEM Learning Team
- ► American Astronomical Society Eclipse Task Force
- University of California, Berkeley Eclipse Megamovie Team
- Indigenous Education Institute
- Google Eclipse Megamovie Team
- Astronomical Society of the Pacific Eclipse Megamovie Team
- The Cloud in the Crowd team
- The Eclipse Megamovie Volunteers

(If you are in my life, I will ultimately invite you to collaborate in STEM outreach)



2017 Total Solar Eclipse Photograph, courtesy of Eclipse Megamovie Team Member Brian Mendez, UC Berkeley



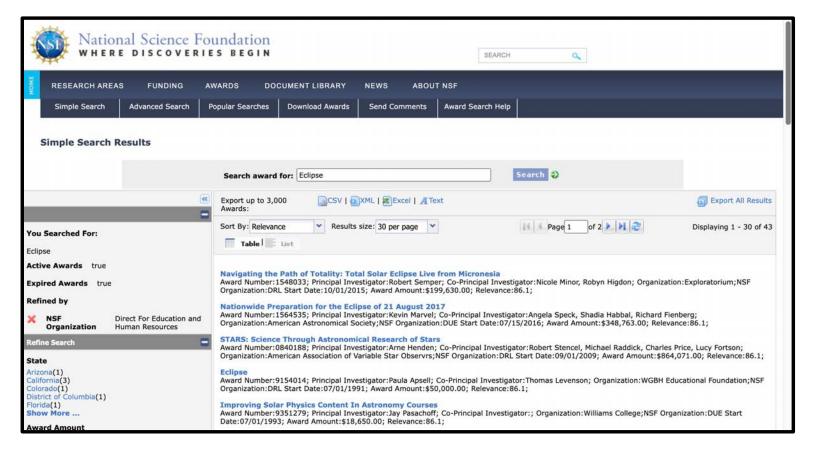
Embarking on Solar Eclipse Outreach

- Venture respectfully and cautiously outside your comfort zone
- Consider family, friends, or colleagues who work outside the astronomy or physics fields
 - Family member who lives under the path of totality—what connections do they have to their community?
 - ▶ What connections do your friends have within their communities?
 - ▶ Who are your colleagues in different fields than you are in? Are there ways you can collaborate with them on innovative eclipse activities?
- Consider locations or communities who may be left out
 - Have you already developed collaborations or partnerships with someone from these communities?
 - Who in your networks could help you connect to these communities?





NSF Search: Potential NSF-Funded Partners



Keyword/Filters

Eclipse

Directorate For Education and Human Resources

Screenshot of the NSF Awards Search Web-Interface.



Example: Potential NSF-Funded Partners

- Eclipse Megamovie: trained volunteers to take photographs of the moon to ultimately take DSLR photographs of total solar eclipses.
- One episode of The Crowd & The Cloud featured two Eclipse Megamovie Volunteers.

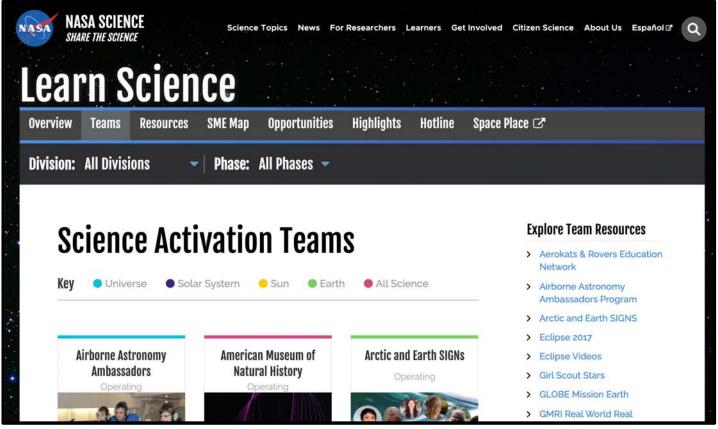
THE CROWD & THE CLOUD: Citizen Science, Big Data and the Democratization of Research

Award Number:1422198; Principal Investigator:Geoffrey Haines-Stiles; Co-Principal Investigator:Waleed Abdalati, Erna Akuginow; Organization:Geoff Haines-Stiles Producins;NSF Organization:DNL State 1999/01/2014: Award Amount #2 205 61 State 1999/01/2014: Award Award Amount #2 205 61 State 1999/01/2014: Award Award Award Award





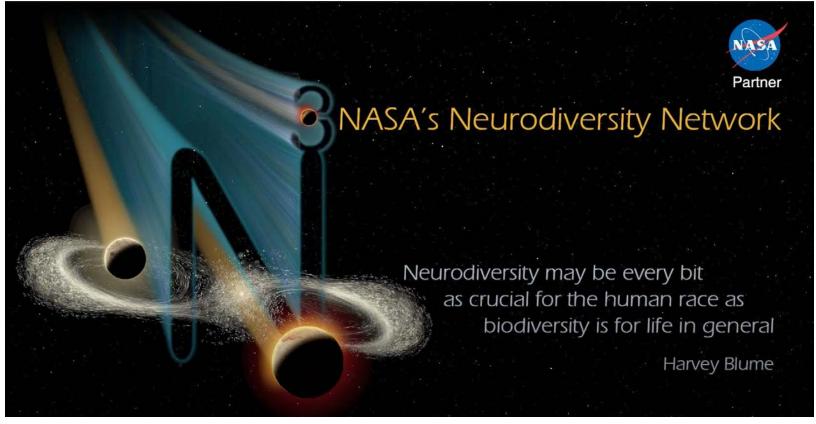
NASA SciAct: Potential NASA-Funded Partners



Screenshot of the NASA SciAct Teams Website.



- NASA's Neurodiversity Network, N³, provides pathways to NASA employment for learners on the autism spectrum.
- We, the N3 team, will engage neurodiverse teens, specifically autistic teens, in our 2023 solar eclipse activities. Perhaps you are are connected to an autistic community and wish to partner.



NASA's Neurodiversity Network Logo and Guiding Quote.

SONOMA STATE



Collaboration + Cold Calls = New Audiences

- Build trust & friendships with family, friends, neighbors, community members, especially those coming from a different culture as yours.
- Leverage your combined network and the internet to find others who may be interested in joining your intercultural collaboration.
- Make phone calls and send emails with information about your project, leveraging networked relationships.
- Visit those who respond to gauge interest and build a common plan.



Photograph of the Early Eclipse Megamovie Team Hosted by Google Partners.

Example: Collaboration + Cold Calls = New Audiences

- The total Solar Eclipse path in 2017 went through Oregon, Nebraska, North Carolina, and South Carolina—and I had relatives in each of those states living under the path of totality.
- Using my family collaboration, I was able to determine who to cold call in their cities to talk to about setting up eclipse town halls.



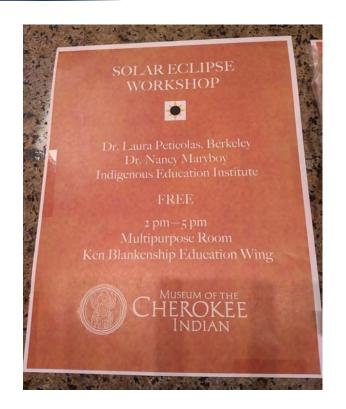
Eclipse

Town Hall



Example: Collaboration = New Audiences

- Colleague, Nancy Maryboy (Navajo/Cherokee), has connections to North Carolina. She had worked with the Museum of the Cherokee Indian in Cherokee, NC.
- Using her connections, we gave an intercultural eclipse presentation at this museum.





Solar Eclipse Workshop flyer and Dr. Nancy Maryboy.

SONOMA STATE

TIP: Collaboration + Cold Calls = New Audiences

- Eclipse Megamovie made cold calls a year out on several projects.
- We ran out of time.
- Two years is needed to forge new partnerships.
- ► Tip: Reach out to new audiences now.



Photograph of the Ashland, NC Library Eclipse Town Hall.