

Recruitment of Diverse Students: Goals and Strategies for CMMAP



Melissa Burt and Tom Windham

Winter Education and Diversity Retreat January 2011



Summer <u>Internship</u> Program Watch us grow!

Find out more about us here: www.cmmap.org/scienceEd/internships.html







plans

Ten interns spent a summer at CMMAP in 2009.

Laura Witte worked with the Ft Collins Sustainability Group estimating how much CO2 would be conserved by implementation of policies.

Liz Huddle spent the summer determining parameters for a mist chamber to

try to increase its efficiency

land-surface modeling group comparing a chemistry transport model with



Lance Vanden Boogart worked with the observed CO2 concentrations in the midwest.

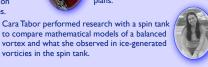
Having a strong passion for disaster research, Heather Morgan tried to find a connection between the MIO and Atlantic hurricanes.

Terreka Hart focused her research on how concentric eyewalls and mesovorticies influence the intensity of hurricanes in the Atlantic basin.

OBeth Minniear came to CMMAP to research how water vapor, temperature, and vertical velocity relate to one another in a very high resolution simulation of a tropical convection system.

Katie Riley researched and summarized trends in the carbon offset market. She also created a hypothetical model of offset design.







vorticies in the spin tank.

Katherine Heal learned to use an aerosol mass spectrometer to analyze aerosol emissions from types of biodiesel and later, perform sampling in Rocky Mountain Nat'l Park.

Stormy Stevens looked at

dynamical core.

the impact of tropical

cyclone rainfall on

drought in Alabama

Chris Alston researched hurrican activity along the US northeast coast.

Erin Kashawlic compared

data assimilation schemes



used by operational forecast centers. Tina Laboy spent her

summer researching the propogation of the Madden-Julian Oscillation



Christina McCluskey researched nitrogen

samples collected from Rocky Mountain National Park



2008

Claudette Oio, a business maior.

organization Climate Wise to learn the

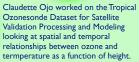
progress they were making in reducing

interviewed companies for the

greenhouse gas emissions.



One of our first summer interns, Beth Beckel explored cloud and precipitation chemistry. She learned the basics of gas-phase atmospheric chemical sampling techniques and spent most of the summer learning about the mist chamber.



CMMAP enjoyed six interns in 2008.

Parker Kraus investigated land-atmosphere interactions in the West African country of Mali, looking at evaporation and photosynthesis rates.







global surface-

atmosphere exchange.

Idamis Del Valle came from Puerto Rico to study the effects of enhanced moisture triggers

on precipitation and winds. Kyle Hemes researched the spatiotemporal influence of vegetation on

and their impact on demand response decision making with a company in Fort Collins.



Marie-Christine Razaire examined the carbon cycle to climate change.



Nick Geyer used the

simulate the Tropical

Vector Vorticity Model to

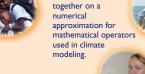
Western Pacific-ICE case



responses of the ocean Daniel Rothenberg got into the nuts and bolts of a climate model

Ariana Marrero, from Puerto Rico, studied the variability of the seasonal cycle in the Tropical Eastern Pacific and Caribbean.





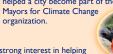
Tyler Ruggles, interested in environmental science and policy, Mayors for Climate Change organization.

Zoe Keve has a strong interest in helping people and improving our world. She worked at the National Conference of State Legislators constructing a booklet on biofuels.



helped a city become part of the





David Sullivan studied carbon pricing and taxation for the National Conference of State Legislators finding advantages and disadvantages of different methods and

creating a booklet.

together on a

Alice Duvivier and Jette Petersen worked

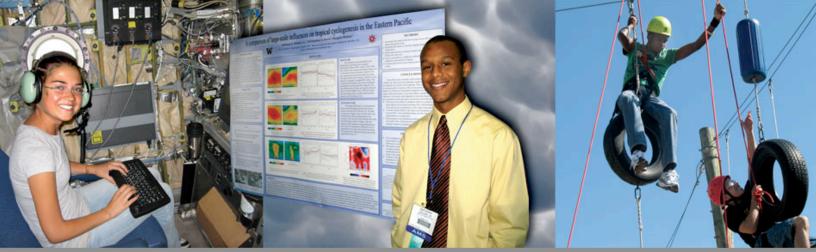


SOARS is dedicated to broadening participation in the atmospheric and related sciences. It is an undergraduate to graduate program built around a summer research internship, mentoring by top scientists, and a supportive learning community.

HOME ABOUT PEOPLE INSIDE GALLERY CALENDAR APPLY CONTACT

RESEARCH MENTORING COMMUNITY

"We soon became our own group, our own family a family of friends and that makes a big difference."

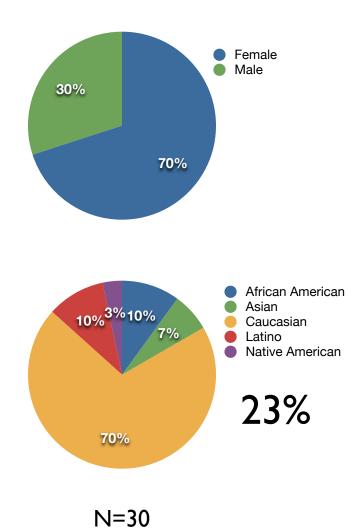


Significant Opportunities in Atmospheric Research and Science

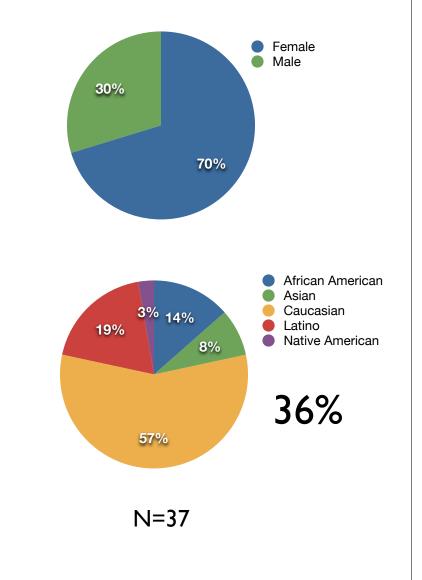


5 summers - 7 proteges

CMMAP Internship



CMMAP and **SOARS**



Goal I:

Increase the number of diverse undergraduate students in the CMMAP Internship Programs

Strategy: Recruit, retain, and mentor students from underrepresented groups.

What are we already doing? Targeting minority and majority institutions, focusing on multiple academic disciplines, and attending national conferences

To meet our goal...

Targeted recruitment at Minority Serving Institutions

Target a small number of geographic areas

Identify and enlist participation of alumni and current participants of various summer internship programs

Network with programs with like interests, goals, and successful histories

Meet with NSF representatives to enlist support



Goal 2: Increase the number of diverse graduate students in the CMMAP ATS Programs

Strategy: Recruit, retain, and mentor students from underrepresented groups.