**Weekly RAP April 27, 2015**

**BONUS ALL RAP**
Thursday, April 30
3:45 -5:30 pm
Murie 107
Integrative Assessment and Adaptive Management students’ semester project presentation.

**Monday, April 27**
4:30 -5:30 pm
Murie Auditorium, 104 Murie Building
One Health / Biomedical seminar series, sponsored by the Department of Veterinary Medicine
The One Health perspective in Alaska: Zoonotic disease risks from wildlife
Kimberlee Beckmen, Alaska Department of Fish & Game

**Tuesday, April 28**
10:00 am - 5:00 pm
Wood Center multi-level lounge
Research Day 2015
Celebrate UAF undergraduate research at the 8th annual event:
- 10 a.m.–3:30 p.m. - Poster Session
- 3:30 p.m. - Reception
- 4:00 p.m. - Awards and poster participant recognition

*Sponsored by UAF Undergraduate Research and Scholarly Activity (URSA)*

1:15 – 2:15
Murie Auditorium
Chancellor’s Forum
Chancellor Brian Rogers and university leadership

7:00 pm
Schaible Auditorium
Rejection Proof: How I Beat Fear and Became Invincible, One Rejection at a Time
Jia Jiang, author
After several years in the corporate world, Jiang took a life-altering risk and stepped into the unknown world of entrepreneurship, which resulted in everyone’s biggest fear — rejection. To conquer the fear of rejection, Jiang embarked on a personal quest and started a blog to face 100 Days of Rejection. When he sought rejection, he discovered a world where people are much kinder than we imagine, and where rejection can be much less painful than we believe. Hear Jiang’s story firsthand and learn how the fear of rejection can be more destructive than rejection itself.

The talk will also be available to view via live stream at bit.ly/JiaJiangUAF

In addition to the signing after his lecture, Jiang will host a book signing on Wednesday, April 29, at 5 p.m. at Barnes & Noble. The events are sponsored by the UAF Northern Leadership Center, Students Offering Leadership Development and the Leadership, Involvement and Volunteer Experience office.
Wednesday, April 29
10:00 -11:00 am
Elvey Auditorium, 214 Elvey Building (GI)
Department of Geosciences PhD defense
Deciphering Okmok Volcano’s restless years: 2003–2005
Celso Reyes, PhD Geophysics candidate

12:00 pm
183 Arctic Health
The Noatak Traditional
Knowledge Project: Local Perceptions of Caribou Migration and Behavior & Interactions between Local and Non-local Hunters
Gabriela Halas, MSc. Candidate, Natural Resource Management

3:30 -4:30 pm
Vera Alexander Learning Center (201 O’Neill)
Institute of Marine Science Seminar
Evaluation of growth and survival on the recruitment of chinook salmon in two Southeast Alaska rivers
Stephanie Berkman, MS Fisheries student;

Determining fish length and fish age of ice seal prey using otolith measurements
Kelly Walker, MS Fisheries student;

Determining growth rates, hatch timing, and natal origin of Arctic Cod, Boreogadus saida in the Beaufort and Chukchi seas
Alyssa Frothingham, MS Fisheries student;

A novel method validation for extracting steroid hormones from archaeological, historical, and modern Pacific walrus (Odobenus rosmarus divergens) bones
Patrick Charapata, MS Marine Biology student; and

Roles of sea surface temperature and salinity in shaping kelp abundance
Alyssa Lind, MS Marine Biology student

Thursday, April 30
9:00 am
Irving Building 1, Room 201
Motivations and Drivers of Trapper Catch-Per-Unit-Effort in Alaska
Ross Dorendorf, MSc Candidate, Biology and Wildlife

3:00 -4:00 pm
501 Akasofu Building (IARC)
Department of Atmospheric Sciences MS defense
Using WRF/Chem data for assessment of UAV sampling pattern, speed, and height on accuracy of mean distributions derived from the sample quantities
Mary K. Butwin, MS candidate

3:45 -5:30 pm
Murie 107
Integrative Assessment and Adaptive Management Student Presentations
UAF Energy Perceptions and Values
Kelsey Aho, Jennifer Chamberlain, Tracie Curry
Through a survey administered to UAF students, faculty and staff, this project measures campus knowledge of the University’s current energy infrastructure and planned upgrades, as well as general campus sentiment regarding alternative fuel sources, air quality, health and other behavioral and environmental factors.

Emmison and Health in the Community
Nina Olivier, Nils Pedersen, Alyssa, Rodrigues, Sasha White
UAF is planning to upgrade their 50 year old power plant. Health related ailments due to poor air quality are a concern for students. Our research focuses on comparing emissions generated by coal and natural gas power plants in order to advise UAF on which power plant meets our energy needs while improving air quality.

Light refreshments. Hope to see you there.

Friday, May 1
8:00 - 9:00 am
Runcorn Room, 300 Reichardt Building
Department of Geosciences MS defense
A new elasmosaur (Sauropterygia: Plesiosauria) from the Bearpaw Formation (Late Cretaceous, Maastrichtian) of Montana and the evolution of neck length in Elasmosauridae
Danielle Serratos, MS Geology candidate

12:00 – 1:00 pm
Vera Alexander Learning Center (201 O'Neill)
School of Fisheries & Ocean Sciences MS defense
Fatty acid profiles of Alaskan Arctic forage fishes: evidence of regional and temporal diet variation
Julia Dissen, MS Marine Biology candidate

1:30 -2:30 pm
Vera Alexander Learning Center (201 O'Neill)
School of Fisheries & Ocean Sciences MS defense
Marine-entry timing and growth rates of juvenile chum salmon in the Alaskan waters of the northern Bering and Chukchi Seas
Stacy Vega, MS Fisheries candidate

3:00 -4:00 pm
Murie Auditorium, 104 Murie Building
Life Sciences Seminar Series, sponsored by the Institute of Arctic Biology and the Department of Biology & Wildlife
Crossing boundaries to explore the hidden mysteries of linked stream–riparian ecosystems
Kurt D. Fausch, Colorado State University

3:00 -4:30
531 Duckering Building
Water and Environmental Research Center Seminar
Title & speaker TBA

3:30 – 5:00 pm
214 O'Neill Building
By VCON from Juneau
SFOS Fisheries Division, Juneau Center Seminar
Confronting models with data in the global management of whales
Leah Gerber, Arizona State University
3:45 pm
Globe Room, 215 Elvey Building (GI)
Department of Physics Journal Club
Heisenberg. Did he really try?
William Stringer, UAF Geophysical Institute

5:00 -7:00 pm
204 Akasofu Building (IARC) - follow the Hall of Flags
Sponsored by CNSM, Alaska Satellite Facility GeoData Center, and CLA Collaborative Arts
First Friday Art Show: "The Masterpiece Called Earth"
Art inspired by the USGS "Earth as Art" collection
Artists (who are also UAF staff members, faculty and students) looked at satellite images from the U.S. Geological Survey's "Earth as Art" collection and re interpreted them into paper collages, a smalti mosaic, felt work, a quilt, acrylics, water colors and much more. Just like the earth, there's a lot of texture to this show. There will be light refreshments.

About the inspiration: Realizing the beauty of satellite images, the USGS and NASA have selected certain satellite images for their aesthetic value and shared them with the public. From NASA: "They were created by printing visible and infrared data in colors visible to the human eye. Band combination and colors were chosen to optimize their dramatic appearance."

The Landsat 5 and 7 (managed by the USGS) and Terra, Aqua, and Earth Observing-1 (EO-1) satellites (managed by NASA) captured the images. Sponsors for this show: College of Natural Science & Mathematics, Geophysical Institute Alaska Satellite Facility GeoData Center, CLA Collaborative Arts

More info on art show: www.uaf.edu/cnsm
To see the inspiration "Earth as Art:" http://eros.usgs.gov/imagegallery/
To see the inspired - come to the show ...

GRANT OPPORTUNITIES/SCHOLARSHIPS/OTHER AWARDS

Apply now for a BlaST Undergraduate Research Experience (URE) Award!
Students enrolled full-time from any UAF or UAS campus, and Ilisagvik College, are eligible to apply. The application deadline is May 31, 2015.

The UAF BlaST (Biomedical Learning and Student Training) Program is accepting applications for the next academic year for undergraduate students, especially rural Alaskans, interested in biomedicine, One Health, or subsistence health. The BlaST URE award is up to $3000 for the fall 2015 semester with noncompetitive renewal for up to $3000 for the spring 2016 semester. Preference will be given to applications that propose project work spanning both semesters of the 2015-2016 academic year.

Details and application materials can be found on the BlaST website - http://alaska.edu/blast/blast-undergraduate-resea/
If you have any questions please to not hesitate to call the BlaST staff at 907-474-5111.

The 2016 Call for Proposals for the Graduate Student Grants has been released and proposals will be accepted until 1 pm MDT May 13, 2015.
The full CFP can be downloaded at wsaregrants.usu.edu/grants/docs/CFP_GSG.pdf. The Graduate Student Grants provide a maximum of $25,000 and may last for up to two years. Those eligible to apply are masters or Ph.D. students enrolled full time at accredited colleges or universities in the western region. After the deadline, the proposals are assessed by a technical review panel in July. The Western SARE Administrative Council selects proposals for funding in July and award notifications are made in August. The Western SARE Administrative Council will select reviewed proposals that are innovative, diverse in content, subject matter, and geography; demonstrate tangible outcomes; and provide readily
adaptable technologies and information suitable to the adoption of sustainable farming and ranching systems by producers
in the western region.
Proposals must address issues in sustainable agriculture of current and potential importance to the western region. The
primary focus of Graduate Student projects should be to:
• Conduct research and education, not research or education. Both elements are required.
• Demonstrate measurable impacts and outcomes that can increase the body of knowledge of sustainable agriculture.
• Produce scholarly works and educational materials to assist others in acquiring new knowledge.
• Communicate the project goals, activities, and findings to producers and other stakeholders.
• Consult with farmers and ranchers throughout the life of the project to help ensure these results.
Profiles of successfully completed Graduate Student Grant projects may be found at westernsare.org/grad.
Stacie Clary wsareoutreach@gmail.com
http://www.westernsare.org/News-from-the-West/Featured-News/Graduate-Student-Grants-Call-for-Proposals

FELLOWSHIP and EMPLOYMENT OPPORTUNITIES

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<tr>
<th>2015 EPA Science to Achieve Results (STAR) Fellowships for Graduate Environmental Study</th>
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<tbody>
<tr>
<td><strong>Solicitation Opening Date:</strong> April 8, 2015</td>
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<tr>
<td><strong>Solicitation Closing Date:</strong> May 26, 2015, 11:59:59 pm Eastern Time (ET)</td>
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<td><strong>11:59:59 PM Eastern Time (ET) for submission of All Letters of Recommendation.</strong></td>
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**Introduction**

The U.S. Environmental Protection Agency (EPA), National Center for Environmental Research (NCER), invites applications for the Science to Achieve Results (STAR) Fellowships for graduate environmental study for master’s and doctoral level students. The deadline for submission of applications is May 26, 2015. Subject to availability of funding and other applicable considerations, the Agency plans to award approximately 55 new fellowships in the Fall of 2015. The Fellowship Program provides up to $44,000 per year of support per fellowship. Master’s level students may receive support for a maximum of two years ($88,000). Doctoral students may be supported for a maximum of three years ($132,000), usable over a period of five years. This amount covers a monthly stipend of $2,250 for up to 12 months totaling $27,000 for the year, $5,000 for authorized expenses, and up to $12,000 for tuition and fees. The actual amount awarded will vary depending on the amount of tuition and fees and the number of months the stipend is required. These fellowships are intended to help defray costs associated with advanced, environmentally-oriented study leading to a master’s or doctoral degree.

EPA recognizes that scientific, technical, engineering and mathematical (STEM) competence is essential to the Nation’s future well being in terms of national security and competitive economic advantage. For instance, the health and vitality of the economy is predicated, in part, on the availability of an adequate supply of scientists, technicians, engineers and mathematicians, to develop innovative technologies and solutions. In other words, this country must engage all available minds to address the challenges it faces. Minorities, persons with disabilities, and women historically have been under-represented in the STEM fields. For this reason, EPA strongly encourages all eligible applicants, including women, minorities, and persons with disabilities to apply. At the same time, the EPA seeks to expand environmental conversations by including members of communities which have not equitably participated in such dialogues; therefore EPA strongly encourages such eligible applicants, including applicants from Minority Academic Institutions (MAIs), to apply.

For purposes of this solicitation, the following are considered MAIs:

Historically Black Colleges and Universities, as defined by the Higher Education Act (20 U.S.C. Sec. 1061). A list of these schools can be found at White House Initiative on Historically Black Colleges and Universities;
Tribal Colleges and Universities, as defined by the Higher Education Act (20 U.S.C. Sec. 1059(c)). A list of these schools can be found at White House Initiative on American Indian and Alaska Native Education;
Hispanic-Serving Institutions (HSIs), as defined by the Higher Education Act (20 U.S.C. Sec. 1101a(a)(5)). There is no list of HSIs. HSIs are institutions of higher education that, at the time of application submittal, have an enrollment of undergraduate full-time equivalent students that is at least 25% Hispanic students at the end of the award year immediately preceding the date of application for this grant; and
Asian American and Native American Pacific Islander-Serving Institutions (AANAPISIs), as defined by the Higher Education Act (20 U.S.C. Sec. 1059g(a)(2)). There is no list of AANAPISIs. AANAPISIs are institutions of higher education that, at the time of application submittal, have an enrollment of undergraduate students that is not less than 10% students who are Asian American or Native American Pacific Islander.

Topic areas are arranged according to the Office of Research and Development’s suite of integrated, trans-disciplinary research programs organized around the sustainability paradigm, including Air, Climate & Energy (ACE), Chemical Safety for Sustainability (CSS), Human Health Risk Assessment (HHRA), Safe and Sustainable Water Resources (SSWR), and Sustainable and Healthy Communities (SHC).

This solicitation provides the opportunity for the submission of applications for projects that may involve human subjects research. Human subjects research supported by the EPA is governed by EPA Regulation 40 CFR Part 26 (Protection of Human Subjects). This includes the Common Rule at subpart A and prohibitions and additional protections for pregnant women and fetuses, nursing women, and children at subparts B, C, and D. Research meeting the regulatory definition of intentional exposure research found in subpart B is prohibited by that subpart in pregnant women, nursing women, and children. Research meeting the regulatory definition of observational research found in subparts C and D is subject to the additional protections found in those subparts for pregnant women and fetuses (subpart C) and children (subpart D). All applications must include a Human Subjects Research Statement (HSRS, as described in Section IV.B. Item 7 of this solicitation), and if the project involves human subjects research, it will be subject to an additional level of review prior to funding decisions being made as described in Sections V.C and V.D of this solicitation.

Please note that surveys, interviews, and focus groups with individuals may constitute human subjects research.

The additional level of review is conducted by the EPA Human Subjects Research Review Official (HSRRO). In making a determination about conditional and later final approval, the HSRRO will apply both EPA Regulation 40 CFR 26 and EPA Policy Order 1000.17 Change A1, where human exposure research is interpreted as any intervention that manipulates subjects’ environment (i.e., modifies subjects’ exposure).

Guidance and training for investigators conducting EPA-funded research involving human subjects may be obtained here: Basic Information about Human Subjects Research Electronic Code of Federal Regulations

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<thead>
<tr>
<th>Position Title: Climate Change Resilience Science Fellow</th>
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<tbody>
<tr>
<td>Job ID: 43026</td>
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<tr>
<td>Location: California</td>
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<tr>
<td>Full/Part Time: Full-Time</td>
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<td>Regular/Temporary: Regular</td>
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OFFICE LOCATION: San Francisco, California (CA) preferred. Sacramento, San Diego or Los Angeles a possibility.


WORK WITH US

The Nature Conservancy is the leading conservation organization working to make a positive impact around the world in more than 35 countries, all 50 United States, and your backyard. Founded in 1951, the mission of The Nature Conservancy is to conserve the lands and waters on which all life depends. Visit www.nature.org/aboutus to learn more.

The Nature Conservancy offers competitive compensation, 401k or savings-plan matching for eligible employees, excellent benefits, flexible work policies and a collaborative work environment. We also provide professional development opportunities and promote from within. As a result, you will find a culture that supports and inspires conservation achievement and personal development, both within the workplace and beyond.

ESSENTIAL FUNCTIONS

The California chapter of The Nature Conservancy is the largest of the Conservancy’s operating units, with an extensive portfolio of conservation work across the marine, freshwater and terrestrial realms. To help advance the science needed to
address the major conservation challenges of our day, the chapter has established two-year fellowship opportunities for leading conservation scientists to join its diverse team of ~30 applied conservation scientists and climate policy experts, and help provide the science foundations to advance its place-based and policy-based strategies. Here, we seek a Fellow to lead scientific analyses examining the opportunities, constraints and strategies to align natural resource conservation activities with the goals of increasing natural community and ecosystem resilience and facilitating adaptation to and mitigation of climate change. The focus of this Fellowship will be on terrestrial ecosystems, but knowledge and background of integrated freshwater hydrologic analysis or coastal systems is a plus. The successful candidate will have expertise in one or several of the following areas: modeling the response of species to different climate scenarios using species distribution modeling; using process models to develop scenarios of ecosystem response to climatic changes; using spatial optimization tools to identify priority areas and develop strategies to facilitate adaptation of species to climate change given a range of future conditions.

RESPONSIBILITIES AND SCOPE
Develop and implement studies that sharpen understanding of projected changes in species distributions and key ecosystem processes and facilitate the integration of resilience to climate change with conservation priority setting at the regional to statewide scale
Lead multi-disciplinary research teams in developing analyses and studies that assess the degree to which climate change impacts jeopardize successful conservation outcomes
Collaborate with colleagues in universities, NGOs and public agencies to design risk-assessment and risk-management tools to ensure that conservation outcomes are as durable as possible given anticipated climate-related impacts
Consult with Conservancy project and climate change teams around the state to design science-based interventions to address place-based climate change-induced impacts
Serve as a spokesperson for climate change science topics to internal and external audiences, including the media
Engage with Conservancy staff and leaders beyond California to integrate techniques and priorities as a means to effect shared learning across the Global, North American and California climate teams, as needed.
Work with Climate Change policy staff in California to design and support emerging opportunities to fund or develop policies that facilitate a science-based response to climate change impacts and the emissions that cause it.
Produce peer-reviewed scientific publications focused on the research of the Fellowship.

MINIMUM QUALIFICATIONS
A Master's Degree in ecology, biology, environmental science, geography, global change or a closely related field.
Experience working in an applied environment with cross-disciplinary colleagues, internal and external to a large organization.
Experience with GIS.
Expertise in relevant modeling systems, data acquisition and processing techniques or large datasets.
PREFERRED QUALIFICATIONS
A PhD in ecology, biology, environmental science, geography, global change or a closely related field
A track record of successfully leading research projects at the intersection of climate change, ecology, and conservation, preferably with interdisciplinary teams.
A proven publication record
Strong research and analytical skills
Well-organized
An effective communicator, oral and written
Research on habitat connectivity needs for plants and animals under climate and land use change scenarios.
Familiarity with mapping and quantifying ecosystem service values and beneficiaries
Familiarity with land use change models
An understanding of California’s complex socio-ecological system as a backdrop for recommending and promoting durable conservation actions
Systematic Conservation Planning experience
Experience explaining scientific concepts and principles in a compelling way to non-technical audiences, including the media
Familiarity with data visualization concepts, techniques and tools
ADDITIONAL JOB INFORMATION
The duration of this position is 2 years.

HOW TO APPLY
To apply to position number 43026, submit resume and cover letter as one document. All applications must be submitted in the system prior to 11:59 p.m. Eastern Time on April 30, 2015.

Click “submit” to apply for the position or “save for later” to create a draft application for future submission. Once submitted, applications cannot be revised or edited. Failure to complete required fields may result in your application being disqualified from consideration.

If you experience technical issues, please refer to our applicant user guide or contact applyhelp@tnc.org.

*LI-MS1

The Nature Conservancy is an Equal Opportunity Employer
Our commitment to diversity includes the recognition that our conservation mission is best advanced by the leadership and contributions of men and women of diverse backgrounds, beliefs and culture. Recruiting and mentoring staff to create an inclusive organization that reflects our global character is a priority and we encourage applicants from all cultures, races, colors, religions, sexes, national or regional origins, ages, disability status, sexual orientation, gender identity, military, protected veteran status or other status protected by law. The successful applicant must meet the requirements of The Nature Conservancy’s background screening process.

OTHER
Please send suggestions, announcements, etc. to Mary van Muelken, mavanmuelken@alaska.edu