



January 8, 2024

Dear CSU Ecology,

Welcome back to campus! I hope you've had a chance to spend time with family and friends and are feeling rested and invigorated. I have three announcements.

First, I'm thrilled to introduce [Mitskie Kumagai](#) to the GDPE community. Mitskie is a Program Support Specialist, new to CSU, in a position shared between Cell and Molecular Biology (CMB, 75%) and GDPE (25%). She has been in finance for 16 years and studied art before that. Mitskie is a trail runner and loves to cook. As a self-proclaimed nerd about her personal finances, cooking is the one area that she just can't stay within budget! Mitskie welcomes questions of all sorts - whether you're wondering about fund transfers, finding the right person to answer your question, thinking about how to create your personal budget or meal plan, she would love to hear from you! I've already found her support so helpful. Please help her feel at home here at CSU and with GDPE!

Second, applications for GDPE research and travel and training grants are due next month, the second Tuesday (13th) and fourth Tuesday (27th), respectively. All the details are on the [funding page](#). Please read the directions carefully! If you have questions, please just ask!

Third, Sigma Xi's [Grant in Aid of Research](#) program has increased their funding amounts. Non-members can request funding up to \$1000 (up from \$500) and members can now request up to \$5,000. I'm a member and happy to help nominate for membership if folks are interested.

Best,
Ruth



GDPE Event Calendar

DEADLINES

GDPE Deadlines

February 1 - Annual Student Progress Report - see details [here](#).

February 13 - GDPE Small Research Grant Proposals [due](#)

February 27 - GDPE Travel & Professional Development Grants [due](#)

March 22 - GDPE Student Awards [due](#)

Other Deadlines

January 26 - Q3 GSC Professional Development and Supply Grant

February 8 - Deadline to Apply to Graduate for SPRING 2024 GRADUATES. Access the form on [RAMweb](#).

Find all of the deadline details on the CSU Graduate School's website [here](#).
Find all of the registration details on the CSU Registrar's website [here](#).

GDPE EVENTS & ANNOUNCEMENTS

FRSES Meeting

The Front Range Student Ecology Symposium (FRSES), an annual student-led conference held at CSU, will meet on **Mondays from 12-1PM** in NR 142. The next all-member meeting will be held January 22nd.

ECOLOGY SEMINARS AND CONFERENCES



Register now
for the 30th anniversary
**Front Range
Student Ecology
Symposium**
February 1st - 2nd, 2024
Colorado State University

CONNECT WITH US
GDPE_FRSES@colostate.edu
FRSES.org

**ABSTRACT SUBMISSION OPEN FOR THE
30TH ANNIVERSARY
FRONT RANGE STUDENT ECOLOGY SYMPOSIUM**

WHO IS THIS FOR?

- Undergraduates, graduate students and post-docs conducting ecology research
- Proposals or current/completed work

WHY PARTICIPATE?

- Receive constructive feedback
- Share your research with other Front Range ecologists
- Win prizes!

CONFERENCE DETAILS

- Poster presentations 2/1/2024
- Oral presentations 2/2/2024

Abstract submission deadline is January 15 or once capacity is reached

**FRSES
FROM NICHES TO NETWORKS
2024**

Front Range Student Ecology Symposium - 30th Anniversary

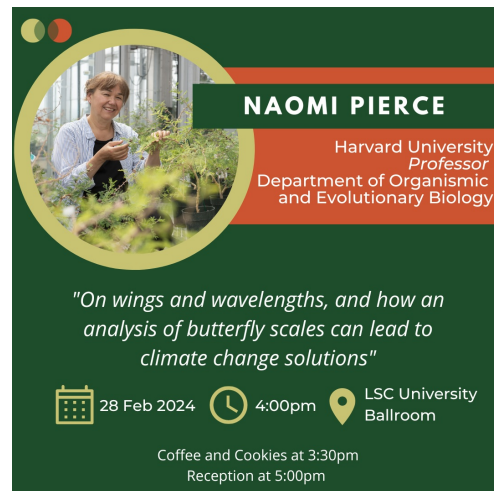
Register now for FRSES, held at CSU on February 1-2, 2024. Come showcase your work and network in a friendly and supportive peer environment.

Abstract submission will remain open until capacity is reached (45 oral presentations; 50 poster presentations) or on January 15th, whichever comes first.

Click [here](#) for more details.

Distinguished Ecologist Seminar

Please join GDPE in welcoming our **Visiting Distinguished Ecologist**, Dr. Naomi Pierce for her talk *"On wings and wavelengths, and how an analysis of butterfly scales can lead to climate change solutions"*. The seminar will be held **Wednesday, February 28th** at 4:00pm in the LSC University Ballroom. Refreshments will be served from 3:30-4:00pm. There will be a reception directly following the seminar at 5:00pm. We hope to see you all there!



NAOMI PIERCE
Harvard University
Professor
Department of Organismic
and Evolutionary Biology

"On wings and wavelengths, and how an analysis of butterfly scales can lead to climate change solutions"

28 Feb 2024 4:00pm LSC University Ballroom

Coffee and Cookies at 3:30pm
Reception at 5:00pm

Entomological Society of America - North Central Branch Meeting

The North Central Branch meeting of the Entomological Society of America takes place in Fort Collins on **March 24-27, 2024**. Click [here](#) for more details.



NON-ECOLOGY CSU EVENTS



Best Practices in Teaching - Graduate Students

Some of the most popular programs we offer, our [Best Practices in Teaching \(BPiT\) courses](#), are starting soon!

These three-week courses are designed to enrich your teaching skills while operating asynchronously in Canvas, with most of the work happening on your own schedule. During these courses, you'll have the opportunity to explore, apply, and discuss

research-based teaching approaches based on the [Teaching Effectiveness Framework](#). Plan to dedicate 4-5 hours per week to assignments, discussions, readings, and meaningful interactions with fellow educators across campus. To see what other workshops are offered this semester, [click here](#).

Inclusive STEM Teaching Project

The Inclusive STEM Teaching program is designed to advance the awareness, self-efficacy, and ability of STEM faculty, postdocs, graduate students, and staff to cultivate inclusive learning environments for all their students and to develop themselves as reflective, inclusive practitioners.

NOTE: Please register with [Edx](#) and select CSU as a local community.

REGISTRATION OPEN FOR SPRING 2024 Dinner is served

INCLUSIVE STEM TEACHING PROJECT

MONDAYS STARTING MARCH 18 - APRIL 22, 2024

FROM 4:00 - 6:00 PM
STATISTICS ROOM 8

- Introduction
- Module 1: DEI in Higher Education
- Module 2: Instructor Identity
- Module 3: Student Identity
- Module 4: Course Design
- Module 5: Classroom Climate

FACILITATED BY

- Akiko Nakamura, Assistant Teaching Professor Chemistry
- Ariene Noddedo, Director of Inclusion College of Natural Sciences
- Carlos Olivo, Associate Teaching Professor Chemistry
- DeeDee Wright, Assistant Professor & Experiential Education Biology
- Paul Laybourn, Professor Biochemistry and Molecular Biology
- Rosa Loeza, Academic Success Coordinator, Psychology

Register with [edX](#) and select CSU as a Local Learning Community for your registration form.

REGISTER NOW

Questions? Contact: Akiko.Nakamura@colorstate.edu

Primary Sponsors for STEM Teaching Project are the NSF, EHR, and DUE



Proximity to Roads Does Not Modify Inorganic Nitrogen Deposition in a Topographically Complex, High Traffic, Subalpine Forest

Water, Air, & Soil Pollution - December 2023

Summary provided by GDPE members **Katie Rocci**, **Francesca Cotrufo**, and **Jill Baron**.



Vehicles are an important source for N deposition that may negatively impact roadside ecosystems. While elevated roadside N deposition has been found in many locations, it is not yet known if vehicle emissions cause measurable increases of N deposition in complex, mountainous terrain adjacent to roads. To address this, this study investigated the effect of vehicle N emissions on throughfall (through trees) and open N deposition in a high traffic corridor in mountainous terrain of Rocky Mountain National Park, Colorado, USA. We measured bulk (wet + dry) atmospheric N deposition in throughfall and open samplers along two transects of 750 (throughfall) and 225 (open) m moving away from the road using ion exchange resin (IER) collectors. Contrary to most studies of roadside N deposition, we found no influence of road proximity on inorganic N deposition in throughfall or open sites, possibly due to terrain complexity. These findings do not negate vehicles as a local source of N emissions but suggest elevated N deposition adjacent to busy roads cannot be assumed for complex terrains.

Photo Credit: GuideAlong

Share your Recent Publication or Research Highlight

GDPE Social Listserv - Please make sure to sign up [here](#) for the GDPE Social Listserv to keep up with all the fun events we have planned this year!

GDPE Student Teams Channel - Join our Teams Channel [here](#) for all GDPE-related questions, ideas, and discussions with fellow students.

GDPE Slack Channel - Join our GPDE Slack channel [here](#).

Submit Photos

We want your photos! What are you up to, how is your field and lab work? Share them with us here.

SPRING 2024 COURSES

It's not too late to sign up for spring courses! Below are lists of courses available for this semester, along with the times they're being offered, and how they fit into [the curriculum](#). To find out who is teaching them, you can refer to the CSU [Class Schedule](#). Detailed descriptions of ECOL 592s are [on the website](#).

SPRING 2024 COURSE OPTIONS

REQUIRED - ALL

ECOL 571: DISTINGUISHED ECOLOGIST LECTURE SERIES
LECTURE: M/W 4:00 - 5:30 PM
LUNCH AND WORKSHOP: R 11:00 - 1:30 PM
ECOL 695: RESEARCH SEMINAR FOR PROFESSIONAL COMMUNICATION
ORAL SECTION: T 10:00 - 10:50 AM
WRITTEN SECTION: W 9:00 - 9:50 AM

FUNDAMENTALS - PHD AND MS (6 CREDITS)

ECOL 600: COMMUNITY ECOLOGY
LECTURE: M/W 1:00 - 1:50 PM
RECITATION: T 2:00 - 2:50 PM OR R 2:00 - 2:50 PM

REQUIRED - PHD (2 COURSES), MS (1 COURSE)

ECOL 592: BIG DATA IN ECOLOGY: PROGRESSES AND PITFALLS
LECTURE: T 1:00 - 1:50 PM
ECOL 592: PEER REVIEWING FOR EARLY CAREER RESEARCHERS
LECTURE: T 2:00 - 3:50 PM
ECOL 592: UNDERSTANDING 'ECOLOGICAL RESILIENCE' IN A RAPIDLY CHANGING WORLD
LECTURE: W 11:00 - 11:50 AM
ECOL 592: ECOLOGICAL ADAPTATIONS: CONNECTING GENOME TO PHENOME
LECTURE: R 3:00 - 3:50 PM
ECOL 592: GENETIC RESCUE: A CONSERVATION TOOL TO PREVENT SPECIES EXTINCTION
LECTURE: F 1:30 - 2:30 PM

ELECTIVES - PHD (55 CREDITS), MS (15 CREDITS)

AREC 540: ENVIRONMENTAL AND NATURAL RESOURCE ECONOMICS
LECTURE: T/R 12:30 - 1:45 PM
BZ 520: ADVANCED SYSTEMATICS
LECTURE: M/W/F 8:00 - 8:50 AM
BZ 530: ECOLOGICAL PLANT MORPHOLOGY
LECTURE: T/R 3:00 - 3:50 PM
FW 544: ECOTOXICOLOGY
LECTURE: T/R 10:00 - 10:50 AM
RECITATION: R 11:00 - 11:50 AM
FW 558: CONSERVATION BIOLOGY
LECTURE: T/R 12:30 - 1:20 PM
RECITATION: T/R 1:21 - 1:45 PM
FW 605: ADVANCED PHYSIOLOGICAL ECOLOGY OF FISHES
LECTURE: M/W 12:00 - 12:50 PM
LAB: T 2:00 - 4:50 PM
GES 520: ISSUES IN GLOBAL ENVIRONMENTAL SUSTAINABILITY
LECTURE: M/W/F 9:00 - 9:50 AM
HORT 571: SOIL PLANT WATER RELATIONS
LECTURE: T/R 9:30 - 10:45 AM
NR 678: ADVANCED ECOLOGICAL RESTORATION
LECTURE: M/W/F 12:00 - 12:50 PM
SOCR 540: SOIL PLANT NUTRIENT RELATIONSHIPS
LECTURE: M/W/F 3:00 - 3:50 PM
SOCR 567: ENVIRONMENTAL SOIL CHEMISTRY
LECTURE: M/W/F 9:00 - 9:50 AM
ECOL 698: RESEARCH
ECOL 699: THESIS
ECOL 799: DISSERTATION

TOOLS - PHD AND MS (3 CREDITS)

AREC 735: ECONOMETRIC THEORY II
LECTURE: T/R 9:30 - 10:45 AM
FW 663: SAMPLING AND ANALYSIS OF VERTEBRATE POPULATIONS
LECTURE: M 8:00 - 12:00 PM
RECITATION: F 8:00 - 12:00 PM
LAB: W 8:00 - 12:00 PM
SOCR 670: TERRESTRIAL ECOSYSTEMS ISOTOPE ECOLOGY
LECTURE: M/W 11:00 - 11:50 PM
LAB: TBD
STAR 511: DESIGN AND DATA ANALYSIS FOR RESEARCHERS I
LECTURE: W 2:00 - 2:50 PM; F 9:00 - 9:50 PM
RECITATION: ONLINE
STAR 512: DESIGN AND DATA ANALYSIS FOR RESEARCHERS II
LECTURE: T 1:00 - 2:50 PM; R 1:00 - 1:50 PM
RECITATION: R 2:00 - 2:50 PM
STAT 530: MATHEMATICAL STATISTICS
LECTURE: T/R 2:00 - 3:15 PM

JOBS, GRANTS, INTERNSHIPS

Visitor Use Monitoring Assistant

Deadline January 21, 2024

The Visitor Use Management (VUM) Assistant will have a major role in the Continental Divide Research Learning Center's (CDRLC) Visitor Use Management Program that supports science-informed, adaptive management in Rocky Mountain National Park (RMNP). The VUM Assistant will independently manage two visitor use monitoring projects – Traffic Monitoring and Trail Use Monitoring – to provide park managers with real-time information on visitor experience and resource conditions. The VUM Assistant will also help monitor other visitor use "indicators" including visitor-created bare ground areas, people per viewshed, visitor encounters along Wilderness trails, unendorsed parking, and vehicle capacity for the Bear Lake Road Corridor. As lead for the Traffic and Trail Use Monitoring projects, the VUM Assistant will coordinate field logistics like deploying and maintaining field equipment and routine data downloads, manage traffic and trail data and perform quality control checks, and perform standard data analyses. Click [here](#) to learn more.

Graduate Student Funding Available through Rocky Mountain National Park

Deadline February 1, 2024

Graduate student researchers make important contributions to resource science in Rocky Mountain National Park (RMNP). Because of this, RMNP and Rocky Mountain Conservancy are proud to support the next generation of park scientists and stewards through the Bailey Research Fellowship! The Bailey Research Fellowship provides opportunities for highly qualified graduate students to conduct research in the park. Proposed projects should aim to promote the adaptive management of RMNP and/or the education and professional development of park staff. Click [here](#) to learn more.

Science Communication (Digital Media) Assistant

Deadline February 5, 2024

The Latino Heritage Internship Program (LHIP) seeks to engage Latino undergraduates and recent graduates ages 18 - 30, and up to 35 for veterans, for this unmatched leadership training program that is focused in the cultural and natural resource management.

The Science Communication Intern will contribute to the Continental Divide Research Learning Center's (CDRLC) Science Communication Program - a park-wide resource for Rocky Mountain National Park (RMNP) that utilizes a variety of digital media to facilitate science communication and outreach for internal audiences (park staff) and external audiences (the public). This project is structured to provide the Science Communication intern with the opportunity to lead, design, and develop their own robust science communication product, while exploring other research topics, and communication mediums utilized by the Science Communication Program. Click [here](#) to learn more.

Wildlands Restoration is hiring!

Deadlines vary

Wildlands Restoration Volunteers, a local non-profit, is hiring several positions including one permanent project manager. For more details, please contact Nate Boschmann at nate@wlr.org. Click [here](#) to learn more.

CSU Extension Internships

Applications open January 8, 2024

The CSU Extension Internship Program will be open to applications on 1/8/24. The award for each internship is \$5000 for undergraduate students and \$7000 for graduate students, for a ten-week internship (30 hours/week), with housing and travel funds assistance available for some opportunities. Work culminates in a final Extension program and poster presentation on campus at the Extension Forum held in the fall. Click [here](#) to learn more.

Denver Audubon Lois Webster Fund Grants

Deadline January 31, 2024

Denver Audubon's Lois Webster Fund (LWF) is now soliciting grant requests in support of Colorado non-game wildlife research, education, and conservation projects. A maximum of \$15,000 in funding

is available in the coming project year. Grantees will be notified by early March 2024 and the funds dispersed in time for the spring field season. Click [here](#) to learn more.

[Submit a Job Announcement](#)



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PROGRAM IN ECOLOGY
COLORADO STATE UNIVERSITY



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