



January 22, 2024

Good afternoon, GDPE!

We have a new semester and a new year ahead of us, full of exciting opportunities. It's the perfect time to reflect on some goals, and then make a plan to bring those goals to life! If professional development is one of your goals, you're in luck because there are some fantastic events right around the corner.

First up, the Front Range Student Ecology Symposium is happening *next week* **[Feb. 1 - 2]**. This event is a great way to support your community, network, and learn about all of the amazing ecology research happening along the Front Range. There are more details below (and on the [FRSES website](#)) so please take a moment to check them out.

Read through the digest for more details on our upcoming workshop all about communicating scientific uncertainty **[Feb. 19]**, as well as our first visiting [Distinguished Ecologist](#) of the semester, Dr. Naomi Pierce **[Feb. 28]**.

On the topic of goal-setting, the required [Annual Student Progress Report](#) is due next week **[Feb. 1]**. The deadlines for the [GDPE Research and Travel Grants](#) are fast approaching as well **[Feb. 13 and Feb. 27, respectively]**.

Finally, as your new science communication fellow, I'd love to hear your input on the events and workshops you want to see in the future. **Please fill out [this short survey to share your thoughts](#)**. Whether you want to develop specific skills, tap into your creative side, or possibly even facilitate a workshop of your own-- let's make it happen!

Hope you all have a great week,
Lizzy Rylance



GDPE Event Calendar

DEADLINES

GDPE Deadlines

February 1 - The Annual Student Progress Report is due next week - 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](#).

March 15 - Sigma Xi [Grains in Aid of Research](#)

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

GDPE Research, Travel, and Training Grants

Have you applied for a GDPE grant yet? These grants are open to all GDPE students and help support a variety of needs. Earn up to \$2000 toward graduate research projects and up to \$750 for professional development and travel opportunities. The deadline for the research grant is Feb. 13, and the deadline for the travel and training grant is Feb. 27. Learn more [here](#).



FRSES Needs Volunteers!

Volunteer for FRSES 2024

We are recruiting volunteers to moderate sessions and work the check-in table. Please visit the [following link](#) to volunteer your time!

Serve as a Judge for FRSES 2024

We are recruiting judges for our oral and poster presentations. Judges may be faculty, post-docs, graduate students*, or community members. Please visit the [following link](#) to volunteer your time! **Graduate students are only eligible to judge undergraduate research projects.*

GDPE Workshop: Communicating Scientific Uncertainty

Join us for our first GDPE science communication workshop of the semester! As scientists, we have a huge role to play in determining how the public interprets and understands our research. In this interactive workshop, you will learn how to navigate the tricky task of communicating uncertainty to different audiences.

The workshop will be held on Monday, **February 19th, from 1-3pm in WCNR 345** and facilitated by Dr. Nicole Kelp, Assistant Professor of Microbiology, Immunology, and Pathology at CSU.



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*



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

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!

FRONT RANGE STUDENT ECOLOGY SYMPOSIUM

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



Front Range Student Ecology Symposium - 30th Anniversary

FRSES is next week! Come celebrate the 30th anniversary of the Front Range Student Ecology Symposium on **February 1st-2nd** at Lory Student Center. Showcase your work and network in a friendly and supportive peer environment.

Click [here](#) to register for the event and learn more about the keynote speakers, Dr. Chrissy Alba and Dr. Olivia Messinger.

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
Arlene Nadejob, Director of Inclusion College of Natural Sciences
Carlos Olivo, Associate Teaching Professor Chemistry
DeeDee Wright, Assistant Professor & Experiential Education Biology
Paul Layboers, Professor Biochemistry and Molecular Biology
Rose Loeza, Academic Success Coordinator, Psychology

Register with edX and select CSU as a Local Learning Community for your registration form.

REGISTER NOW



S T E M INCLUSIVE STEM TEACHING PROJECT

Questions? Contact: Akiko.Nakamura@colorado.edu
Primary Sponsors for STEM Teaching Project are the NSF, EHR, and DUE



SOGES: Perspectives on COP28

CSU faculty and student directors who participated in the United Nations Framework Convention on Climate Change in Dubai, the United Arab Emirates (COP28), will talk about their experiences at the conference, outcomes from COP28, and why there is reason for optimism around climate change solutions and the future.

February 7th from 5:00-6:30 p.m. at Avogadro's Number. More details [here](#).



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



Photo Credit: GuideAlong

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.

Share your Recent Publication or Research Highlight

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](#). **Registration closes on January 31st.**

Newly added!

ECOL 592-006: Academia for Ecologists

Thinking about an academic career path but not sure what that would actually entail? In this discussion-based seminar course, we will explore every non-science aspect of an academic's professional life. We will learn about the university systems that we all live within, how it operates, who is involved, and how it came to be. We will learn about the economics of being an academic, whether it is about running one's own lab, managing grants, or negotiating salaries. This class will serve as an avenue for early career academics to critically evaluate the industry they are about to enter and ponder a better future within it.

Spring 2024
ECOL 592

*Starts after Spring Break!

Academia FOR ECOLOGISTS

Mar 19 - May 7
*Starts after Spring Break!

Tuesdays 2-3:50PM

1 credit; pass/fail

Matthew Sturchio
Siwook Hwang
Dr. Meena Balgopal
Dr. Steven Fonte

BSPM 528 - Invasive Plants and Weeds: Ecosystems to Molecules taught Spring 2024

Do you want to learn more about biological invasions and invasive plants? If so, check out BSPM 528 - Invasive Plants and Weeds: Ecosystems to Molecules taught by Dr. Cini Brown spring 2024 (Tuesday, Thursday 9:30 – 10:45 AM, 103 Eddy Hall, CRN 22820). The course explores leading theories of biological invasions; examines evidence about weeds and invasive plants including global and landscape patterns, effects on ecosystems, interactions with other plant species in communities, population processes, ecophysiology of individual species, genetic and biochemical characteristics; and considers the history of invasion biology and weed science. Contact Dr. Brown at cynthia.s.brown@colostate.edu with questions.

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 693: 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

CSU Extension Internships

Deadline January 28, 2024

The CSU Extension Internship Program will be open to applications until 01/28/24. 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.



Spend your summer gaining hands-on experience, addressing critical social and environmental issues across the state, supporting community change, and building valuable skills.

10-Week Commitment

- Flexible summer start dates
- 30 hours per week

Compensation

- Undergrads: \$5,000
- Grad students: \$7,000
- Housing and travel stipends

Wide Range of Topics

- Food and agriculture
- Natural resources/sustainability
- Health and well-being
- Youth/family development
- And more!

APPLY BY JAN. 28



COLORADO STATE UNIVERSITY
EXTENSION

INTERN.COLOSTATE.EDU

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.

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.

[Submit a Job Announcement](#)

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.

[Submit Photos](#)

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



GRADUATE DEGREE
PROGRAM IN ECOLOGY
COLORADO STATE UNIVERSITY



CSU Graduate Degree Program in Ecology | Colorado State University, Johnson Hall rm 102,
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