



January 16, 2024

Happy Snow Day, GDPE!

I hope you're all staying warm and enjoying one more day of winter break. With the semester starting tomorrow, I wanted to remind you about several things that are quickly approaching.

Annual Student Progress Report: Each year, students are required to complete this form in collaboration with their advisor, and then submit it to GDPE. As a reminder, the goals for this are to (i) provide a way for you to reflect on your progress from the past year and your goals for the upcoming year, and (ii) facilitate conversation with your advisor and committee about these goals. Students and advisors may also find the Individual Development Plan an excellent tool to expand on the more sterile reporting in the progress report. Both of these, as well as instructions, can be found on the "[Annual Report & Plan](#)" webpage. **[DUE Feb 1]**

Research and Travel Grants: There have been some updates to these applications, so make sure to download the most recent versions! One of the biggest updates to the research proposal is that you may now include a figure on a 3rd page (rather than squeezing that figure into 2pgs). Please read through the instructions on the webpages (under Funding) to specific instructions and helpful suggestions. **[Research Due Feb 13; Travel Due Feb 27]**

FRSES & Recruitment: The FRSES Board has been doing a fantastic job preparing for the annual symposium. Please take the time to attend the keynote by GDPE Alum and Denver Botanical Gardens scientist, Dr. Chrissy Alba! Scheduling for the symposium can be found on the [FRSES website](#). Our GDPE Recruitment Event will be co-occurring with FRSES again this year. Please keep your eyes open for visiting students and feel free to say "hi"! **[Feb 1 - 2]**

I believe those are the biggest things happening in just a few weeks! Watch for future Digest details on other opportunities this semester, such as our [Distinguished Ecologists Lecture Series](#). You can always check out the [GDPE Events calendar](#) (and subscribe to it!) to check out what's coming.

I wish you a fantastic start to the spring semester!



GDPE Event Calendar

DEADLINES

GDPE Deadlines

February 1 - The Annual Student Progress Report is coming up soon - 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](#)

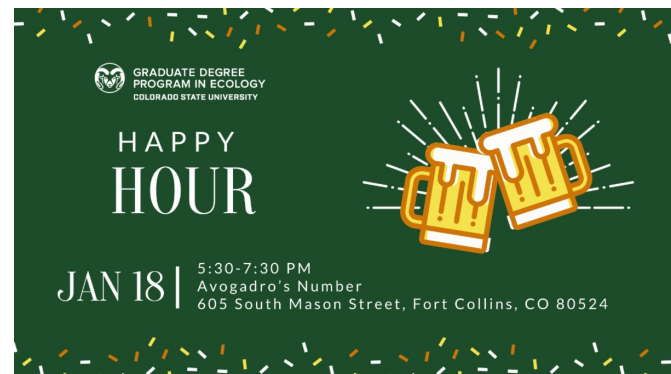
Find all of the deadline details on the CSU Graduate School's website [here](#).

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

GDPE EVENTS & ANNOUNCEMENTS

Happy Hour at Avogadro's Number

The GDPE Social Committee is kicking off the semester with a happy hour at [Avogadro's Number](#) this **Thursday (January 18th)** from **5:30-7:30pm**. GDPE students, friends, and plus-one's are welcome!



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. Learn more [here](#).

FRSES Meeting

The Front Range Student Ecology Symposium (FRSES) team will hold an all-member meeting on **Monday, January 22nd from 12-1pm** in NR 142. This will be the last general meeting before the big event, so let's get a good turnout!



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

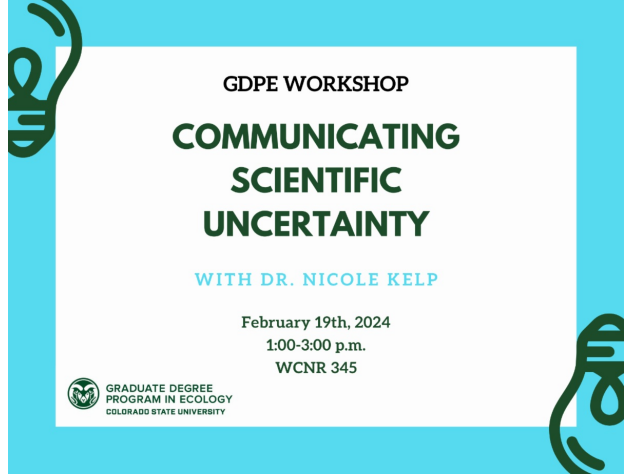
We are recruiting judges for our oral and poster presentations. Judges may be faculty, post-docs, graduate students*, or community members. Please visit the [following link](#) to volunteer your time! **Graduate students are only eligible to judge undergraduate research projects.*

GDPE Workshop:

Communicating Scientific Uncertainty

Join us for our first GDPE science communication workshop of the semester! In this workshop, you will learn how to navigate the

tricky task of communicating uncertainty in your research. 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.



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



Front Range Student Ecology Symposium - 30th Anniversary

FRSES is just around the corner! 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.

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!

A flyer for a Distinguished Ecologist Seminar featuring Dr. Naomi Pierce. The flyer has a dark green background with a circular photo of Dr. Pierce in a lab. Text includes her name, affiliation (Harvard University, Department of Organismic and Evolutionary Biology), the seminar title, date (28 Feb 2024), time (4:00pm), and location (LSC University Ballroom). It also mentions refreshments at 3:30pm and a 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.

2024 North Central Branch



Integrative entomology for
community collaboration

March 24-27

NON-ECOLOGY CSU EVENTS

Jan. 8 - Jan. 28	Jan. 29 - Feb. 18	Feb. 19 - Mar. 10
First Four Weeks Student Motivation	Classroom Climate Learning Outcomes & Course Alignment	Accessible & Inclusive Electronic Content Planning an Effective Class Session

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
- Ariane Noddedog, 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 Loera, 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@colostate.edu

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

GRADUATE DEGREE PROGRAM IN ECOLOGY
COLORADO STATE UNIVERSITY

Recent Publications and Highlights

[Proximity to Roads Does Not Modify Inorganic Nitrogen Deposition in a Topographically Complex, High Traffic, Subalpine Forest](#)

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

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

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.

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.

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.



80+ PAID, SUMMER
INTERNSHIPS

Spending 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 <ul style="list-style-type: none">• Flexible summer start dates• 30 hours per week	Compensation <ul style="list-style-type: none">• Undergrads: \$5,000• Grad students: \$7,000• Housing and travel stipends	Wide Range of Topics <ul style="list-style-type: none">• Food and agriculture• Natural resources/sustainability• Health and well-being• Youth/family development• And more!
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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
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