



Colorado State University
**GRADUATE DEGREE
PROGRAM IN
ECOLOGY**
weekly digest

April 10, 2023

Hello GDPE Community,

We have wrapped up our Distinguished Ecologists visits for the semester and all the seminars were great. In particular, the talks presented last week by Christopher Schell and the previous presentation by Emily Stanley shared some common themes and valuable “ecological wisdom” even though their topics were very different.

For example, both visitors emphasized the importance of knowledge of the past (legacies as Chris termed them) for understanding the present, and for forecasting the future. Related to this, both also recognized the historical shift in our field from considering humans apart from our research to human activities being central to many of the questions we try to answer. Finally, both emphasized and embraced the many and diverse approaches ecologists can use to advance our science, while not advocating for any particular “way to do science”.

This reminded me of a quote I often share (apologies to past Foundations of Ecology students who have heard this before): “Naively simple formulations of ‘The Way To Do Science’ are harmless in themselves, but have unfortunate consequences when they inspire doctrinal vigilantes to ride the boundaries of a discipline, culling the sinners” – R. May 1981.

It was awesome to hear from ecologists that employ such multi-faceted approaches in their research. I am already looking forward to next year’s Distinguished Ecologist visitors!

Have a great week.

Alan Knapp
Your GDPE Senior Ecologist



DE Speaker, Dr. Chris Schell, with his host, Dr. Sara Bombaci.



GDPE Students at the post-seminar reception.



GDPE EVENTS & ANNOUNCEMENTS



Join GDPE Sci Comm fellow, Josie Otto, for a **GDPE sponsored communications luncheon** on Thursday, **April 13** from 11-12:30PM. Come get some free lunch and talk with fellow GDPE students about how to effectively communicate within the program. We'll discuss changes to our website and sci comm events for Fall 2023. Attendance is not required for the entire event. Message Josie at Josie.Smith@colostate.edu for more information.



Get Involved by Joining a GDPE Committee!

There are openings on two of our key GDPE committees:

DEI Committee – up to 4 spots

Executive Committee – 2 spots

Sign up [here](#) by Friday, April 21st if you're interested in serving! Folks currently serving are welcome to run again.

As a reminder, participation in the GDPE program (including committee service) is one of the factors that is scored in the small grants provided by our program, improving the likelihood of funding. Service on committees and helping with events also provides important experience in leadership, building professional networks, and provides a strong foundation for future participation and representation in our professional societies' leadership positions.

WE'RE LOOKING FOR FALL 2023 GRADUATE TA'S!

- LIFE 102/103: Attributes of Living Systems
- ECOL 505: Foundation of Ecology
- ECOL 610: Ecosystem Ecology

Submit your application and materials online by Friday, April 28th



GDPE is accepting application materials from graduate students to serve as a TA for Fall 2023. Current openings include LIFE 102/103, ECOL 505, and ECOL 610. Scan the QR code or visit our website [here](#) to view the requirements and submit your materials.



GDPE Spring Picnic

Join us for an end of the semester gathering at **Intersect Brewing on Wednesday, May 3rd** from 4-7PM. We will be celebrating our new graduates, graduate student award recipients, and the rest of our GDPE community for completing another semester! Pizza and drinks will be provided.

We will also be continuing our GDPE Bake-Off! Bring your favorite homemade dessert to enter the contest. Prizes will go to the top desserts.

GDPE Event Calendar

STUDENT DEFENSES

M.S. Defense Seminar
Natalie "Bucky" Buchholz
Climate Forecasting, Climate-Resilient Tree Species Selection, and Urban Canopy Planning for a Small, Semi-Arid City

April 10, 2023
12 PM MST
Lory Student Center Room 308
Zoom ID in flier

Climate Forecasting, Climate-Resilient Tree Species Selection, and Urban Canopy Planning for a Small, Semi-Arid City



Natalie "Bucky" Buchholz
Master Thesis Defense
Monday, April 10th @ 12 p.m.
Lory Student Center, Rm. 308

Advisor: Julia Klein; Committee: Randall Boone, Troy Ocheltree

Remote Access
Zoom Meeting ID: 940 1634 0149
Passcode: 243916

ECOSYSTEM SCIENCE AND SUSTAINABILITY COLORADO STATE UNIVERSITY

GRADUATE DEGREE PROGRAM IN ECOLOGY COLORADO STATE UNIVERSITY

Of Toads & Tolerance:
Intraspecific variation in host persistence
when challenged by disease

Bennett Hardy

PhD Exit Seminar

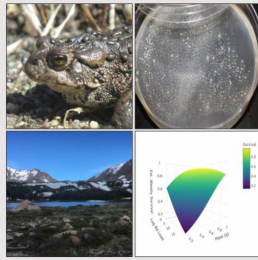
Advisors: Dr. Larissa Bailey and Dr. Chris Funk

Friday, April 14 @ 3-4pm MT

Wagar Building 133



GRADUATE DEGREE
PROGRAM IN ECOLOGY
COLORADO STATE UNIVERSITY



Ph.D. Defense Seminar

Bennett Hardy

*Of Toads and Tolerance: Intraspecific variation
in host persistence when challenged by disease*

April 14, 2023

3-4 PM MST

Wagar 133

DEADLINES

Graduate School

If you plan on celebrating at the Graduate School Commencement Ceremony on May 12, you may order your cap, gown, and tassel in advance online via the [University Commencement webpage](#). **The deadline for ordering regalia is March 28**. Please visit the [Graduate School Commencement webpage](#) for further details about preparing for your big day

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](#).

ECOLOGY & CSU EVENTS

Inclusive STEM Teaching Project

The Inclusive STEM Teaching Project 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. Sessions will be held on **Mondays March 6 - April 17** from 4:30-6. Learn more and register [here](#).

Professor Laureate Awards and Lecture

GDPE and Biology faculty member Dr. Kim Hoke was selected as one of the 2023 College of Natural Sciences Professor Laureate Award recipients.

Join us to honor her achievement on Monday, **April 10th** from 4-6 pm in the LSC Long's Peak Room.

You're invited!	WHEN: Monday, April 10th, 2023 4:00 - 6:00 PM	WHERE: LSC - Long's Peak Room Reception to follow
PROFESSOR LAUREATE AWARDS AND LECTURE		 Rachel Pires, Professor Department of Mathematics
 Kim Hoke, Professor Department of Biology	With lecture from Kim Hoke: Flexibility in Development and Evolution How genetic, developmental and neural mechanisms shape behavioral diversity? Examining variation in social and anti-predator behaviors to address how proximate mechanisms shape evolutionary processes. Use this link to join the webinar: https://zoom.us/j/9877282143	
Questions? Contact the Dean's Office at (970) 491-1300 or cns_info@mail.colostate.edu		 COLLEGE OF NATURAL SCIENCES COLORADO STATE UNIVERSITY

Interdisciplinary Seminar: Land Use and Land Cover Change- Data Products, Driving Factors, and Impacts

Each spring semester, the Department of Forest and Rangeland Stewardship, the Department of Ecosystem Science & Sustainability, and the Graduate Degree Program in Ecology host interdisciplinary seminars that are open to interested visitors. For 2023, the theme for the seminars is "Sustaining Socio-Ecological systems into the Future: Adapting our Natural Resource Management to a Changing Climate".

Their next seminar will take place on **Wednesday, April 12th** in Natural Resources Room 345. Xiangming Xiao, Professor in the Department of Microbiology and Plant Biology and Director at the Center for Earth Observation and Modeling at the University of Oklahoma, will give a talk on "*Land Use and Land Cover Change: Data Products, Driving Factors, and Impacts*". More information can be found [here](#).

PLANT ADAPTATION *Vision Talks*

Improving plant adaptation to meet society's need for more productive, sustainable and resilient agriculture.

Plant adaptation research serves applications like crop breeding, conservation, and invasive species management. With a growing population and changing climate, understanding and utilizing plant adaptation is more important than ever.

To spark discussion and catalyze connections, the College of Agricultural Sciences will host a series of lectures from global thought leaders who are using innovative approaches to make greater progress in plant adaptation and genetics.

Plant Success: Effective Translation from Natural to Agricultural Systems

Mark Cooper, Deputy Director, Centre of Excellence for Plant Success in Nature and Agriculture, Queensland University
March 30, 2023 | 4 p.m. | Biology room 136

A Genome-Level Approach to Balancing the Micronutrient Content of Maize Grain

Mike Gore, Cornell University
April 12, 2023 | 11 a.m. | Nutrien room 135

Learning via Radical Collaborations and Transdisciplinary Science

Susan McCouch, Director, CROPPS Center, Cornell University
April 19, 2023 | 10 a.m. | Behavioral Sciences room 103

We hope you can join us for these vision talks, which have been coordinated by faculty in the planned Institute for Plant Adaptation – a new initiative under development at Colorado State University aligning the best academic plant science with industry priorities in a positive feedback loop. [Learn more](#).



College of Agricultural Sciences: Plant Adaptation Vision Talks

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The next two seminars will take place on April 12 and 19. See the flier or [click here](#) for more details.

Environmental Justice Community Potluck in the Park

The Community for Environmental Justice is having their last event of the semester on **April 13th** from 5pm to 6:30pm. It will be a potluck in Lee Martinez Park (weather permitting).

To RSVP, scan the QR code in the attached flier or [visit this link](#).

For more information, feel free to contact GDPE student Karissa Courtney at karissa.courtney@colostate.edu




BIOLOGY
COLORADO STATE UNIVERSITY

EXTREME PHYSIOLOGY AND THE MECHANISMS OF ADAPTATION TO HIGH ALTITUDE

Tuesday, April 18th
4:00 PM - 5:00 PM
Biology 136

Speaker:
 Dr. Jonathan Velotta
Assistant Professor
Department of Biological Sciences
University of Denver

Host:
 Cole Deal

Scan the QR code for more information on our seminars



Department of Biology Seminar: Extreme Physiology and the Mechanisms of Adaptation to High Altitude

Join the Department of Biology on **April 18th** for a seminar presentation with Jonathan Velotta from the University of Denver! He will be presenting on “*Extreme Physiology and the Mechanisms of Adaptation to High Altitude*” at 4pm in Biology 136. Please see the attached flyer for more details and feel free to scan the QR code or follow the links here for [Velotta's full abstract](#) and more [information on Biology seminars](#).

Snack and drinks will be provided.



Recent Publications and Highlights

Congratulations to GDPE Student, **Erin Jackson**, who was awarded the Foundation for Food and Agriculture Research Fellowship for 2023-2026.

Erin's research focuses on investigating the impact of regenerative practices on ecosystem service multifunctionality in agroecosystems. Ecosystem services being measured will include soil carbon capture, soil fertility, microbial diversity, water retention, pollination services and crop yield. There will be a strong social component involving stakeholder interviews to understand producer decision-making, barriers to adoption, and the importance of different ecosystem services and be able to quantify tradeoffs.



Erin Jackson, GDPE and Soil and Crop Science PhD Student

Read more about the FFAR Fellows Program [here](#).

Let us know about your recent publications!

We are trying to highlight the great and diverse science that our faculty and students are doing. If you have recently published an article, please fill out the form linked below and our SciCom Fellow, [Josie Otto](#), will add you to our new Recent Publications section above. We can also feature your work on our website!

Please note that inclusion of events and publications in the Digest is not an endorsement by GDPE

[Share your Recent Publication or Research Highlight](#)

We want your feedback! Do you have comments or suggestions about how your GDPE experience can improve? Let us know! Contact your ExCom Student Representatives, [Mel Morado](#) and [Erin Weingarten](#) to provide your feedback.

Stay in touch by tagging GDPE in your posts and photos on Twitter (@CSU_Ecology) and Instagram (@CSU_GDPE). Use hashtags #GDPE and #CSU_Ecology. We'd be happy to help highlight your research!

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 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.

GRANTS, FELLOWSHIPS, & JOBS

Scholar-in-Residence: Research in the Rockies

Deadline April 15

The Rocky Mountain Conservancy (RMC) and Rocky Mountain National Park (RMNP) Continental Divide Research Learning Center (CDRLC) is excited to announce the Scholar in Residence Program. This program follows the tradition of connecting scholarly and scientific experts in their field to the community and educational programming in our National Parks. This initiative allows a scholar to live and conduct research in Estes Park, Colorado near RMNP. Financial support gives scholars the opportunity to be creative, productive, and successful in conducting research or observations that are uniquely connected to RMNP. **The Scholar-in-Residence Program supports 5 months of field research and occurs annually from June 1 - October 1.** Please see the [CDRLC webpage](#) or [RMC webpage](#) for more information and application instructions.

Submit Job Announcement



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CSU Graduate Degree Program in Ecology | Colorado State University, Johnson Hall rm 102,
Fort Collins, CO 80523-1021

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