



October 3, 2022

This week marks our first [GDPE Distinguished Ecologist](#) of the semester!

[Molly Cavaleri](#) earned her PhD here at CSU in Dan Binkley's lab in 2007. She is a renowned forest ecophysiologicalist at Michigan Tech where she is a professor in the College of Forest Resources and Environmental Science (as well as interim dean and director of graduate studies).

Come hear about Molly's research during her seminar titled **"From roots to treetops: How tropical plants respond to warming and hurricane disturbance in the Tropical Responses to Altered Climate Experiment (TRACE)"** this Wednesday, October 5 at 4pm in LSC Ballroom B. If you would like to meet with Molly, please contact [Alan Knapp](#). Come for tea and cookies before, and stay for the reception afterwards!

But wait... there's more! [Dr. Krithi Karanth](#), Chief Conservation Scientist and Director at India's Centre for Wildlife studies, is visiting CSU and will giving a seminar titled **"Living with Wildlife: Insights from 24 years Science, Conservation, and Education"** on Oct 5, 2022, 12-1 PM, in Wagar 133. Those folks interested in meeting with Dr. Karanth can reach out to [Jennifer Solomon](#).

A joint reception hosted by GDPE and the [Center for Collaborative Conservation](#) to celebrate these both seminars will be held at 5pm (following Dr. Cavaleri's seminar) in LSC Ballroom 350 B.

We look forward to seeing you there!
Jennifer



GDPE EVENTS & ANNOUNCEMENTS

Distinguished Ecologist Seminar - Dr. Molly Cavaleri
October 5th, 2022
LSC Ballroom 350 B (LSC Ballroom Space)
3:30pm - Coffee & Tea
4:00pm - Seminar
5:00pm - Reception

Graduate students interested in a *free lunch* with our speaker on **October 6th at 12:30pm** at Rainbow Cafe, can [RSVP here](#). **Space is limited**

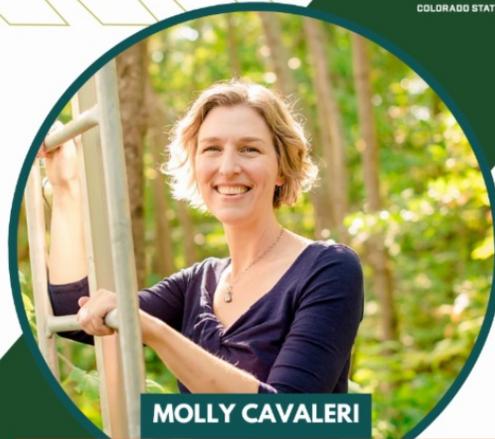
FALL 2023

Distinguished Ecologist Seminar Series

"From roots to treetops: How tropical plants respond to warming and hurricane disturbance in the Tropical Responses to Altered Climate Experiment (TRACE)"



5 October 2022
4:00pm
LSC Ballroom B



MOLLY CAVALERI

Michigan Technological University
Interim Associate Dean and Director of Graduate Studies
College of Forest Resources & Environmental Science


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GDPE Happy Hour & Arcade at Old Town Putt October 6th at 5:30pm

Happy Hour and a free hour of arcade games at [Old Town Putt \(in the Exchange\)](#)
Come test your arcade game (ski ball, pac-man, pinball, etc) skills against your fellow GDPE students!

Please contact your social chairs, [Anna Wright](#) and [Ryleigh Gelles](#) with any questions.

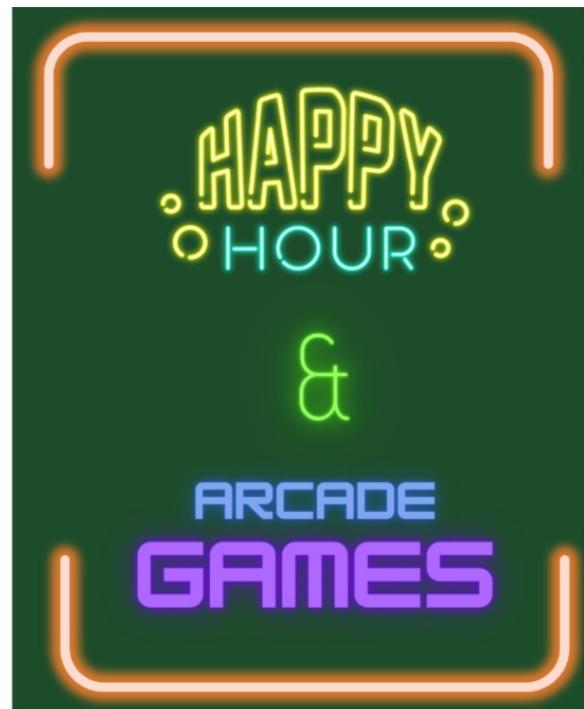


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Come test your arcade game (ski ball, pac-man, pinball, etc) skills against your fellow GDPE students!

OCT 6

5:30PM
Old Town Putt
244 N College Ave



Science Communication Workshop:

"Using ggplot2 and Adobe Illustrator for Data Visualization"

Hosted by [Dr. Kyle Horton](#)
October 11 @ 1:00pm in Natural Resources 142

There will be food!

SciComm Workshop:

Using ggplot2 and Adobe Illustrator for Data Visualization

by **Dr. Kyle Horton**



OCT 11 | 1:00PM
NR 142 - Prairie

RSVP Here:



Defense Seminars

PhD Defense Seminar Katie Rocci

Environmental change impacts on carbon and nitrogen dynamics in soils and vegetation: from global synthesis to local case studies

**October 7, 2022
10:00 AM MT**

Michael Smith Natural Resources Building
Rm. 345; Zoom [link](#)
Passcode 173234

Environmental change impacts on carbon and nitrogen dynamics in soils and vegetation: from global synthesis to local case studies

Katie Rocci
PhD Defense Seminar
Advisor: Francesca Cotrufo
Committee: Jill Baron, Jocelyn Lavallee, Alan Knapp
October 7th, 2022, 10am MT
Michael Smith Natural Resources Building Rm. 345



Growing Deeper: Pathways to enhancing soil organic matter in annual and perennial dryland grain agroecosystems



Laura van der Pol
PhD Defense Seminar
Advisor: M. Francesca Cotrufo
October 12, 2022 9:30 AM MT
Natural & Environmental Sciences Building (NESB)
Swift Conference Room (B218) & Zoom
Come for the Kernza, stay for the science



**PhD Defense Seminar
Laura van der Pol**
Growing Deeper: Pathways to enhancing soil organic matter in annual and perennial dryland grain agroecosystems

**October 12, 2022
9:30 AM MT**
Natural &
Environmental Sciences
Building (NESB) Swift
Conference Room (B218)
Zoom [Link](#)

MS Defense Seminar
Anna Shampain
250 Years of Climate-Mediated Ecological Change in Santa Fe Lake, NM

October 19, 2022
10:00 AM MT
NREL NESB B218 Swift Conference Room
Zoom [Link](#)
Meeting ID: 876 8009 3868
Passcode: JCN18b

250 Years of
Climate-Mediated
Ecological Change in
Santa Fe Lake, NM

Anna Shampain
M.S. Defense Seminar
Advisor: Jill Baron
Committee: Peter R. Leavitt, Joe von Fischer, Jason Sibold
October 19th, 2022, 10am MT
NREL NESB B218 Swift Conference Room



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science for a changing world



Zoom Passcode: JCN18b



GDPE Event Calendar

ECOLOGY & CSU EVENTS

GSC and ASCSU Grants

The Graduate School, and the Associated Students of Colorado State University (ASCSU) are excited to sponsor Professional Development & Supply grants open to all graduate and professional students for use prior to June 30, 2023.

Awards are provided at two tiers

- Tier 1: 6 grants of \$250 (per grant cycle)
- Tier 2: 10 grants of \$100 (per grant cycle)

More information [here](#).

Graduate Student Showcase

Celebrate research, creativity, and entrepreneurship with us on November 16 at the in-person [Graduate Student Showcase!](#) Approximately 300 graduate students from interdisciplinary graduate programs and all eight colleges will present their work to 200+ judges while competing for \$17K+ in scholarships during the GradShow. The call for abstracts opens August 26!



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Recent Publications

[Perennial grain Kernza fields have higher](#)

particulate organic carbon at depth than annual grain fields

Canadian Journal of Soil Science
September 2022

Laura van der Pol in the lab of Dr. Francesca Cortrufo, and their team, have found that fields of perennial grains like intermediate wheatgrass Kernza®, may store a greater amount of soil-organic carbon in the form of particulate organic matter than annual crop fields.



Image of Kernza by The Land Institute
via <https://landinstitute.org/our-work/perennial-crops/kernza/>



The power and potential of citizen science for park bonding, advocacy, and stewardship

Parks Stewardship Forum
September 2022

A team including GDPE faculty Dr. Philip Halliwell and Dr. Gillian Bowser, and Graduate Student Sarah Whipple, have found that participants of Citizen Science opportunities at national parks have expressed an enhanced, deeper appreciation for the parks, recognize them as special places, and have a stronger motivation to steward and advocate for them.

Contrasting Effects of Nitrogen Addition on Leaf Photosynthesis and Respiration in Black Mangrove in North Florida

Estuaries and Coasts
September 2022

Current PhD student, Matt Sturchio, in the lab of Senior Ecologist Dr. Alan Knapp, has published work from his Master's on the impact of nutrient enrichment on the physiological processes of *Avicennia germinans* black mangrove in the coastal wetlands of northeast Florida.



Image of salt marsh-mangrove in GTMNERR from <https://floridadep.gov/rcp/nerr-gtm>



Less Is More: Lowering Cattle Stocking Rates Enhances Wild Herbivore Habitat Use and Cattle Foraging Efficiency

Frontiers in Ecology
February 2022

The team of GDPE Faculty Affiliate, Dr. Truman Young working in the Kenya Long-term Enclosure Experiment (KLEE), suggest that reducing cattle stocking rates may be beneficial to African rangelands by helping protect wild mesoherbivore habitat use and increasing cattle foraging efficiency.

Image of the KLEE from <https://tpyoung.ucdavis.edu/klee>

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 this [form](#) and our SciCom Fellow, [Elizabeth Diaz-Clark](#), will add you to our new Recent Publications section above. We can also feature your work on our website!

Submit Photos

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

All paperwork: Please email forms to Dawn at ecology@colostate.edu to coordinate signatures and processing. Thanks!

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 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!

GRANTS & JOBS

Terrestrial Ecosystem/Community Ecology Postdoctoral Scholar Application review begins October 15

Post-doctoral scientist in terrestrial ecology within an NSF-funded project studying the ecological legacy effects of elephant carcasses in African savanna ecosystems. See our project website at <https://www.megacarcasseecology.com/>. More information [here](#).

Center for Systems Integration and Sustainability (CSIS) at Michigan State University Fellowships

Applications open until filled

Research topics may include telecoupling (telecoupling.org), sustainability science, UN Sustainable Development Goals, coupled human and natural systems, systems integration (e.g., integration of natural sciences such as ecology with social sciences such as economics, policy, and technology), biodiversity conservation, ecosystem services, food-energy-water-climate nexus, human well-being, nature-based climate solutions, forest and landscape ecology, global change, wildlife ecology and conservation, land change science, and computer modeling and simulation. More information [here](#).

Assistant or Associate Professor of Environmental Humanities Review of applications will begin October 3, 2022

The Environmental Humanities Program at Whitman College seeks candidates for a tenure-track position beginning August 2023 at the rank of assistant or associate professor. A Ph.D. or appropriate terminal degree is required at the start of the position. More information [here](#).

PhD Assistantship in Wildlife Management

Application closing date October 15

Seeking highly motivated student for a PhD assistantship in wildlife conservation and management at the University of Connecticut. The student will be a member of the Department of Natural Resources and the Environment and the UConn Wildlife and Fisheries Conservation Center. The research project is about connectivity in exurban forests. More information [here](#).

USAID Foreign Service Environment Officer positions

Application closing date November 15

More information [here](#).

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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