Hello GDPE Community,

Happy Halloween! (Dental Decay Day according to my childhood dentist),

Although it was mentioned in last week’s digest, it’s worth reminding you all again that this week we are privileged to hear from our GDPE Resident Distinguished Ecologist for the 2022-23 academic year – Dr. Will Clements. See below for the specifics of Will’s talk. And note that there will be a reception afterwards in the Biology Building 3rd Floor Atrium.

I hope to see you all at Will’s talk - and here’s why. When prospective graduate students contact me to learn more about GDPE, one of the GDPE strengths I always brag about is the quantity and quality of ecologists that GDPE students have access to as potential advisors, mentors, committee members, and collaborators. And Will is a great example of the amazing quality of scientists associated with GDPE. Now, because we have so many awesome GDPE ecologists, it’s easy to take this GDPE strength for granted. But we shouldn’t. And here’s another reason why...

I did a bit of research (thanks Google Scholar), and discovered a fun fact that exemplifies the great science Will does. Did you know that Will Clements’ scientific publications have been cited an average of ~500 times a year over the past several years? That’s about 10 papers published each week – from all over the world - that build on the contributions Will and his colleagues have made to our understanding of the world around us. If that many folks off-campus are paying attention to Will’s science, we all should jump at the opportunity to do the same, right? So go to Will’s talk! Learn something new! And help us celebrate one of our own Distinguished Ecologists.

Alan Knapp
Your GDPE Senior Ecologist

GDPE enjoying Halloween festivities at the Fall Craft Social.
GDPE EVENTS & ANNOUNCEMENTS

GDPE Faculty GDPE Resident Distinguished Ecologist
Will Clements

Please join GDPE in welcoming our Resident Distinguished Ecologist, Dr. Will Clements for his talk
“Long-term recovery of aquatic ecosystems following anthropogenic disturbance: the importance of regime shifts and novel communities”

There will be a reception directly following the seminar at 5:00pm in the Biology Building 3rd Floor Atrium

We hope to see you all there!

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Save the date for FRSES!

The Front Range Student Ecology Symposium (FRSES) will be hosted at the Lory Student
Center February 23-24, 2023, with opportunities for all undergraduate and graduate ecology researchers. We are accepting abstracts beginning this Tuesday, November 1st. Our keynote speaker will be Dr. Danielle Ignace, an ecophysiologist, science communicator, and an advocate for Indigenous voices in STEM. Find out more about Dr. Ignace [at her website](https://www.danielleignace.com). For more event information and to get involved, check out our website [https://frses.org](https://frses.org) and follow us on Twitter [@CSU_frses](https://twitter.com/CSU_frses).

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**ECOLOGY & CSU EVENTS**

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**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](https://frses.org).

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**Important GTA Information**

**First-Time Graduate Teaching Assistant Training Registration is Open!**
The Spring 2023 required online training for newly appointed Graduate Teaching Assistants (GTA registration is now open. The training will be offered January 9-15\(^{th}\). This Training Program includes online content that addresses universal teaching issues and introduce students to best practices in pedagogy. Content is focused on explaining modeling best practice strategies. Because not all best practice strategies are readily applied in all classroom settings, the training emphasizes informing GTAs about the strategies while emphasizing the need to choose and adapt strategies according to disciplinary needs and departmental expectations. GTAs who will be teaching for the first time in Spring 2023 and those who missed the training in the Fall are required to complete this training.
If you are serving as a GTA for the first time please complete this mandatory training. Register on the [TILT website](https://tilt.colostate.edu/grad-students/gta-training/). Please complete registrations by January 2\(^{nd}\).
If you have any questions, please contact Debora Colbert at 970-491-2645 or Debora.colbert@colostate.edu.

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**SABER West 2023 Conference**
University of California Irvine

The seventh annual SABER West conference will be held face to face on January 14-15, 2023 with pre-conference workshops on Friday January 13, 2023. The theme this year is Justice, Equity, Diversity and Inclusion. They are accepting all poster proposals! [More Information](https://saberwest.ucirvine.edu)
Spring 2023

ECOL 592 Interdisciplinary Seminars
Please note: Students are welcome to take multiple 592s in a semester.

♦ ECOL592 001 Vertebrate Climate Change Responses (Dr. Cory Williams) CRN:TBD Credits: 1 Please register for 1 credit only.

Keep checking back for new ECOL 592s

AGRI 638 - Ecosystem Service on Agricultural Lands

3-credit online course taught in the Spring that focuses on Ecosystem Service on Agricultural Lands. This course applies an economic lens to look at buying and selling ecosystem services. Students will learn about ecosystem services, but focus on how farmers, ranchers, and other extensive land users can find ways to increase returns through marketing resources on their agricultural properties. Examples include hunting, agro-tourism and selling carbon credits. We will dig deep to explore innovative potential. All students will create an ecosystem marketing plan on an actual farm, ranch or other appropriate properties.

Recent Publications

The Importance of Livestock Demography and Infrastructure in Driving Foot and Mouth Disease Dynamics
*Life*  
October 2022

Kendra Gilbertson and Lindsay Beck-Johnson in the lab of Dr. Colleen Webb have found that the transboundary animal foot and mouth disease (FMD), poses a significant and ongoing threat to global food security. Their results suggest that demography is a key ecological driver of outbreaks and is critical for making robust predictions.

Species conflict at Earth’s edges – Contests, climate, and coveted resources
*Frontiers in Ecology and Evolution*  
October 2022

GDPE student, Forest Hayes, and advisor Dr. Joel Berger, have found that climate change may be contributing to increased hostility
between different species over limited resources. For example, the melting of glaciers in Glacier National Park is exposing previously buried salt-licks, which has lead to conflict between Mountain Goats and Big-Horn Sheep. They found that goats almost always win. Sorry, Cam!

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**Lack of avian predators is associated with behavioural plasticity in nest construction and height in an island songbird**

*Animal Behaviour*
August 2022

Most birds are very stereotypical in how they build their nests, but the Orange-crowned Warblers of Santa Catalina Island, California, build wildly different nests at different heights. CSU Undergraduate, **Sarah Hays**, led this study with **Rebecca Cheek** and **Cameron Ghalambor** to understand how individual variation in nest construction is likely driven by predation.

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**Metabolic rate shapes differences in foraging efficiency among honeybee foragers**

*Behavioral Ecology*
September 2022

Does SLOW and STEADY really win the race?... Looks like it! In Honeybees, GDPE recent graduate, **Julian Cassano**, found that foraging bees with slow metabolic rates forage on more flowers and are more efficient than bees with high metabolic rates.

Image by Julian Cassano

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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, **Elizabeth Diaz-Clark**, will add you to our new Recent Publications section above. We can also feature your work on our website!

**Share you Recent Publication**

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

Submit Photos

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

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**GRANTS & JOBS**

Staff Level Environmental Planner - Fire Management
Applications open until filled
SWCA has a terrific opportunity to work in one of the most dynamic and forward-thinking urban environments in the Rocky Mountain region and the West. We are actively looking for an entry-to-intermediate Staff-Level Environmental Planner -- Fire Management for our growing western region. This position is a career growth opportunity to join SWCA’s expanding fire and forestry science practice, with increasing levels of responsibility. In this role, you will have the opportunity to work with a diverse, collaborative team. The role is an hourly, and temporary position. The qualified candidate would support a wide variety of fire science projects in the western US. More information here.

Senior Environmental Planner - Fire Ecology
Applications open until filled
We are actively seeking to fill a Senior Environmental Planner – Fire Ecology position for our growing western region. This position is a career growth opportunity to join SWCA’s expanding fire and forest science practice, with increasing levels of responsibility. The role is a full-time, salaried position. The qualified Senior Environmental Planner - Fire Ecologist would support a wide variety of fire science and forestry projects in the western US. More information here.

Assistant Project Environmental Planner - Fire Ecology
Applications open until filled
SWCA Environmental Consultants is expanding our team and actively looking for dynamic individuals who are following their passion in delivering the highest-quality project work. We are looking for a self-motivated Assistant Project Environmental Planner with attention to detail and strong communication skills. This position is a career growth opportunity to join SWCA’s expanding fire and forestry science practice supporting a wide variety of fire science projects in the western US. 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.

Ecologist - Water and Watersheds Science Program of the USDA Forest Service, Rocky Mountain Research Station
Applications open until filled
This year long program is a rigorous work and learning experience the Rocky Mountains of
Wyoming, Colorado, and Utah with the Water and Watersheds Science Program of the USDA Forest Service, Rocky Mountain Research Station. The internship will focus on the effects of disturbance and climate change on the water and carbon cycles of high-elevation forests. More information here.

Postdoctoral Scientist in Ecology
Review of applications begins November 1
The North Central Climate Adaptation Science Center (NC CASC; https://nccasc.colorado.edu/) within CIRES at the University of Colorado Boulder invites applications for a Postdoctoral Scientist in Ecology to perform research activities on the topic of Ecological Impacts and Transformation under Climate Change in the 21st Century. The Postdoc will work in a highly interdisciplinary environment with a team of NC CASC and US Geological Survey ecologists, climate and social scientists, and adaptation specialists and their partner agencies. More information here.

GIS Technician
Application closing date November 4
The US Geological Survey (USGS) Fort Collins Science Center is seeking entry-level GIS technicians to assist with geospatial data acquisition, development, maintenance, mapping, and basic geospatial analysis. More information here.

USAID Foreign Service Environment Officer positions
Application closing date November 15
More information here.

PhD Graduate Research Assistantship: Prairie Gray Fox Ecology
Oklahoma State University, Depart. of Natural Resource Ecology & Management
Application closing date November 15
We are recruiting an ambitious PhD student to evaluate the spatial ecology and population genetics of the prairie gray fox in Oklahoma. The prairie gray fox (Urocyon cinereoargenteus ocythous) was petitioned for listing under the Endangered Species Act due to concerns over perceived declines in abundance and distribution. More information here.

Assistant Professor of Quantitative Population Ecology
S. J. & Jessie E. Quinney College of Natural Resources
Utah State University
Review of applications begins December 5
The Utah State University Department of Wildland Resources and the Ecology Center are seeking applications for a full-time, 9-month tenure-track faculty position in quantitative population ecology. The position, to be filled at the Assistant Professor level, will be 50% research, 40% teaching, and 10% service. More information here.