



GDPE Weekly Digest



November 15th, 2021

Greetings, GDPE Community!

In the week before fall break, I've been thinking about the different things that I'm grateful for about GDPE. One of those things is the ability to lead our small grants program. Just this last week, we funded **8 students' research proposals**. **Congratulations** to:

- **Andreas Wion** (*advisor: Miranda Redmond*) - "Two's company, three's a crowd: Aligning the annual drivers of post-fire conifer regeneration"
- **Monica Lasky** (*advisor: Sara Bombaci*) - "Does fear of humans drive wildlife interactions in African food webs?"
- **Tamara Layden** (*advisor: Sara Bombaci*) - "The role of community-based land stewardship in shaping mammalian predator conservation in the tropics of Guatemala"
- **Mary Linabury** (*advisor: Mendy Smith*) - "Pulse-press dynamics: the potential for threshold responses under global change drivers in grasslands"
- **Landon Falke** (*advisor: Dan Preston*) - "Freshwater disease hotspots: experimental study of disease risk to salmonid hosts"
- **Emma Svatos** (*advisor: Dan Preston*) - "Disturbance and disease: wildfire impacts on trematode parasite-host system"
- **Matt Hyde** (*advisor: Kevin Crooks*) - "Mapping attitudes and landscape connectivity to reduce retaliation against jaguars"
- **Amanda Longhi Cordeiro** - "Tropical root morphological traits across soil nutrient and moisture gradients"

I also want to thank the **fantastic** faculty and student reviewers who took the time to critically evaluate the proposals and helped provide excellent feedback. Seriously, folks, we couldn't do this without you!

Have a great week and enjoyable fall break!
Jennifer

GDPE EVENTS & ANNOUNCEMENTS

GDPE Distinguished Ecologist Seminar Series November 17 - Dr. Sally Aitken

Long, slow lives facing rapid change: Climate adaptation in conifers

- Come for coffee/tea: 3:30 pm BHSCI N152 (Hallway in front of A101)
- DE viewing party – BHSCI A101 – 4:00 pm – 5:00 pm
- Reception (*with food*) BHSCI N152 (Hallway in front of A101) 5:00 pm - 6:00 pm

Or join via [Zoom](#) Password GDPE

Sign up to meet with Dr. Aiken on Nov 17th or 18th [HERE](#)

Inkscape Seminar

December 3 - 10:00 am - 11:30 am

Johnson Hall 132

Free vector graphics software to create infographics or edit tables and graphs

Sign up for Inkscape Seminar [Here](#)

Save the Dates: Upcoming Distinguished Ecologist Seminars

December 8 - Graduate Student IGNITE Talks

February 2 - Dr. Scott Denning

March 23 - Dr. Andrea Grover

April 13 and 14 - Dr. Alonso Ramirez

April 27 & 28 - Dr. Peter Reich

COURSES

Upcoming Courses of Interest

ECOL 592 Interdisciplinary Seminars

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

◆ **ECOL592 001 "Overpopulation and Ecological Sustainability "** (Dr. Philip Cafaro)

CRN:18824 **Credits: 1 *Please register for 1 credit only.***

◆ **ECOL592 002 "Plant-soil feedbacks and drought"** (Dr. Melinda Smith, Carina Donne, Alex Siggers)

CRN 10126 **Credits: 1 *Please register for 1 credit only.***

◆ **ECOL592 003 "Understanding the ecological impacts of drought from drought experiments"** (Dr.

Alan Knapp) CRN 15033 **Credits: 1 *Please register for 1 credit only.***

Tools for Food-Energy-Water System Analysis (CIVE 527) for Spring 20 22.

9:00 - 10:50 am on Mondays and Wednesdays. The course includes lab time from 9:50 - 10:50.

Course Description: This 3-credit hour course aims to equip students with tools to be used across disciplines that advance capacity to assess complex FEWS issues. Statistical analysis and data mining approaches are included to explore prevailing relationships amongst FEWS under varying conditions. Tools and approaches introduced include statistical analyses, life cycle assessment, triple bottom line analysis, and multi-criteria decision analysis. [Syllabus](#) More information [here](#).

New online course - Ecosystem Services on Agricultural Lands

Dr. Dana Hoag in Agricultural and Resource Economics is offering a new online graduate course this Spring: AGRI 638 – Ecosystem Services on Agricultural Lands. Tuition is set at in-state rates, even for non-residents. Check it out or register

at: <https://www.online.colostate.edu/courses/AGRI/AGRI638.dot>

Course description: 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 improve their sustainability by earning revenues from resources on agricultural properties. Examples include selling carbon credits, wildlife banking, hunting and agro-tourism. We will dig deep to find unique and innovative ecosystem services, and about how to market them. All students will create an ecosystem marketing plan on an actual farm, ranch or other appropriate extensive properties.

Plan Ahead! Fall 2022

ESS 575 - Models for Ecological Data - Dr. Tom Hobbs, Professor Emeritus

Lecture: TR 9:30-10:45 Lab: W 1-2:50 Gaining insight about the operation of ecological processes using models and data.

Send us your photos!

Submit Photos

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, [Katie Rocci](#) and [Dani Lin Hunter](#) 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!

[General Student Resources](#)
[COVID Resources for Grad Students](#)
[CSU COVID Recovery Resources](#)

GRANTS & JOBS

Post doctoral Research Fellow Level 1 or Level 2, UCD School of Biology and Environmental Science, 34 month post - School of Biology and Environmental Science, University College Dublin

Application Due Date: Extended

We are looking to appoint a post-doctoral fellow with expertise in soil and root microbial ecology to conduct research on the resistance and resilience of grasslands under combined extreme flood and drought events. The post is part of a 4-year Science Foundation of Ireland funded project entitled "Delivering food security from grasslands by understanding the link between root microbial networks and resilient agriculture". Job description [here](#). Apply [here](#).

Postdoc Scientist Turkey Population Modeling and Decision Making: Remote

Application Due Date: November 15

The Pennsylvania Game Commission is initiating long-term research on wild turkey in Pennsylvania to develop a decision model for setting fall harvest regulations, develop an integrated population model to monitor population trends, and investigate ways to improve population monitoring and the decision process. There will be mentoring opportunities as the project will support a PhD and MS student beginning in Fall 2022. The position will be supervised by Dr. Duane Diefenbach (PA Cooperative Fish and Wildlife Research Unit) and Dr. Franny Buderman (Dept. of Ecosystem Science and Management). Target start date is January 2022, but may begin earlier. More information [here](#).

Postdoctoral Position in Ecology at UNH

Application Due Date: November 16

The University of New Hampshire invites your application to the [Postdoctoral Diversity and Innovation Scholars](#) program. This 2 year postdoctoral appointment provides opportunities to hone your scholarship in preparation for the professoriate through mentoring, professional development, development funds, a minimum salary of \$50,000, and benefits. [This flyer](#) describes the range of professional development opportunities (e.g, research mentoring network, in-depth faculty development programs) and the opportunity to apply for a tenure track faculty opening. We have identified **12 postdoctoral openings** across five colleges. More information [here](#).

PhD Decision and Demographic Modeling for Wild Turkey - University Park, PA

Application Due Date: November 30

We are seeking a Ph.D. student interested in developing a decision model as part of a large-scale study of wild turkeys in Pennsylvania. The project provides an opportunity to combine field data with computer modeling to inform a decision model for managing wild turkey, to evaluate the effects of hunting decisions on the demography of turkeys, and to evaluate demographics under different ecological conditions. More information [here](#).

Postdoctoral Fellow Wildlife Biosurveillance – Tracking Bats and Coronaviruses:

Modeling Bat Distributions and Abundance

Application Due Date: December 5

Colorado State University is seeking candidates for a postdoctoral position to conduct research on bat distribution and population dynamics, in response to disease progression, in support of the North American Bat Monitoring Program (NABat). The postdoc will combine data on coronaviruses and other pathogens from disease surveillance programs with data on bat occurrence and local activity/abundance data from the NABat to develop models of disease occurrence, local scale population dynamics of wintering bats in response to disease progression, summer bat distributions as a function of winter population disease dynamics, and the relative importance of winter roosts to long-term population persistence. More information [here](#).

Geospatial Modeling ARS Postdoctoral Fellow

USDA-ARS Water Management and Systems Research Unit

Application Due Date: December 10

The USDA-Agricultural Research Service, Water Management and Systems Research Unit in Fort Collins, CO has one Geospatial Modeling Postdoctoral Fellowship available immediately. The incumbent will combine existing gridded climate data with microclimate modeling and land surface products in a machine learning framework to develop downscaled climate data throughout the Southern Rockies. Proficiency with spatial modeling and statistical coding (R or Python preferred) and experience with machine learning procedures (or a willingness to learn) are required. More information [here](#).

John J. and Katherine C. Ewel Postdoctoral Fellowship in Ecology and Environmental Science in the Tropics and Subtropics

Application Due Date: January 9, 2022

The John J. and Katherine C. Ewel Postdoctoral Fellowship Program in Ecology and Environmental Science in the Tropics and Subtropics will enable a recent doctoral recipient to study tropical or subtropical ecology and environmental sciences at the University of Florida (UF). The Fellow will conduct research for two years with a UF faculty member in any department, in any subdiscipline of ecology or environmental science. The fellowship is intended to advance science and enrich the scope and depth of research credentials of both the Fellow and the faculty mentor. A successful application will be based on a partnership between the applicant and the mentor that builds on the strengths of both. Evidence of joint development of the research proposal is key. More information [here](#).

InTERFEWS Application Period for Fall 2022 Trainee

Application Due Date: January 14, 2022

Interested in food, energy or water systems and sustainability issues? Consider applying for the new Interdisciplinary Training, Education and Research in Food-Energy-Water Systems ([InTERFEWS](#)) graduate traineeship program created to integrate **Food-Energy-Water (FEW)** education using a systems-based approach that cuts across disciplines, departments and colleges. [InTERFEWS](#) is currently accepting CSU PhD candidates to join the fall 2022 semester, with priority given to those entering the 1st or 2nd semester of their PhD program (those beyond their 3rd semester are not eligible). More information [here](#).

[Submit Job Announcement](#)



**GRADUATE DEGREE
PROGRAM IN ECOLOGY**
COLORADO STATE UNIVERSITY

