



August 14, 2023

Happy Monday, GDPE!

This past week I attended ESA 2023, and I am excited to be bringing back with me several opportunities for faculty, post-doc, and Ph.D. positions (see Jobs, Fellowships, Internships below). We also gathered some great pictures from a few of the talks and social events - feel free to add more to our album [here](#).

As expected, the start of the semester will bring many additional listings to our Digest. Please be sure to scan our weekly email so you don't miss out on any events!

Hope you all enjoy your final week of summer break - we look forward to seeing you all again next week!

*Josie Otto*  
GDPE Sci Comm Fellow



Josie Otto presenting "NEON in the classroom: a systematic review of what and how NEON data are used to promote ecological literacy."



Group photo from the GDPE/SoGES Mixer at ESA 2023.



GDPE Event Calendar

**GDPE EVENTS & ANNOUNCEMENTS**



### **RSVP now for the GDPE Fall Picnic!**

Join us for our annual Fall Picnic at City Park on **Thursday, September 7th** from 5-8PM. Food and drinks will be provided (including vegan and GF options). The final deadline to RSVP so we can get food ordered is **August 31st** at 11:59PM. RSVP [here](#).



### **GDPE Sports League**

GDPE sports league events will be held on **Wednesdays @ 5:30pm**. We will try to plan all the activities mentioned in the poll but if anyone is itching to play something specific just let us know and we can try to set it up.

For more info, contact Kord Dicke (Kord.Dicke@colostate.edu).

## **STUDENT DEFENSES**

### **MS Defense Seminar**

**Sam Smith**

*Evaluating the impact of control on national-scale livestock disease outbreaks in the United States*

August 15th, 2023

9:00 am MT

Biology 300

[Zoom Link](#)

## **ECOLOGY & CSU EVENTS**

### **Graduate Student Picnic**

The Graduate Student Council is hosting their annual graduate student picnic at Lee Martinez Community Park this **Thursday, August 17 from 5-8 PM**.

Thanks to the sponsorship of RamEvents, Illegal Pete's will be catering and there will be hundreds of tacos, including vegan and gluten-free options. An additional proud sponsor is the Coca-Cola Company, which will provide several different beverage options. The Graduate School will be there to showcase graduate student resources in case you have any questions about health insurance, CSU writes, the graduate school in general, etc. There will be plenty of open space to socialize and meet other graduate students. Lastly, there will be a frisbee toss competition for Graduate School swag!



### **4th Annual SyncroSim 2023 User Conference**

SyncroSim 2023 will take place from **September 19-21st, 2023** at the Fort Collins Science Center.

The conference is designed for researchers, data scientists, policy makers, and anyone interested in applying cutting-

edge simulation modeling techniques to support decisions for complex ecological systems.

**SyncroSim** is a versatile software platform for developing, running, and analyzing geospatial forecasting models. Registration is open. Click [here](#) for more details.

### **Being in the Field Workshop Series**

Being in the field is considered a capstone experience for undergraduate students in sustainability and environmental sciences, yet are such experiences inclusive? If so, which elements are critical to inspiring persistence for underrepresented groups?

This learning experience seeks researchers, experienced students, and novice students to participate in two workshops to explore aspects of inclusion in the field setting. Interested individuals may attend individually or as a research group with 1-2 students. While attending as a research group **is not required** it is encouraged.

Our fall workshop (with lunch!) will be held **October 6th** from 11-1 pm. [Register](#) early as the program participation is capped!



## **GCC 2023**

17th Graduate Climate Conference  
Woods Hole, MA November 2-4

### **17th Annual Graduate Climate Conference**

The GCC is an annual interdisciplinary climate conference **run by graduate students, for graduate students** featuring panel discussions, presentations, workshops, social events, and more. GCC highlights **climate research from a variety of disciplines within the physical, natural, and social sciences and humanities.**

This year, the event will be held at the Marine Biological Laboratory in Woods Hole, Massachusetts on **November 2-4th, 2023**. [Click here](#) to learn more about the event and to apply.

## Entomological Society of America 2023 Annual Meeting

Entomology 2023 will take place **November 5-8th, 2023** in National Harbor, MD (just miles from Washington, DC) at the Gaylord National Resort & Convention Center. The theme for Entomology 2023 is **Insects and Influence: Advancing Entomology's Impact on People and Policy**. [Click here](#) for more details.

**2023**  
**ENTOMOLOGY**  
November 5-8 | National Harbor, MD



The XXVth  
International  
Conference of the  
Society for Human Ecology (SHE)



Saguro National Park   University of Arizona   Env. and Nat. Resources Bldg.   Biosphere - 2

**Society for Human Ecology (SHE) 2023 Conference**  
SHE 2023 "Sowing Human Ecological Futures: Vision, Justice, and Diversity" will be held **November 5-8th, 2023** in Tucson, Arizona. Click [here](#) for more details.

## American Geophysical Union 2023 Annual Meeting

Register now for AGU's 2023 Annual Meeting, which will take place **December 11-15th** in San Francisco, California. Click [here](#) for more details.

**AGU23**  
WIDE. OPEN. SCIENCE.  
San Francisco, CA & Online Everywhere  
11-15 December 2023



## FALL 2023 COURSES

Visit our [Curriculum and Courses](#) page to learn more about what courses are offered each semester.

ECOL 592 Course Descriptions are listed on our website [here](#).

Students may submit Course Overrides, Late Registrations, or Course Petitions [here](#).

Course instructors and meeting locations can be found online in RamWeb.

 **GDPE**  
**FALL 2023 COURSE OPTIONS**

<b>REQUIRED - ALL</b> ECOL 505: FOUNDATIONS OF ECOLOGY	<b>REQUIRED - HEI ONLY</b> ANTH 530: HUMAN ENVIRONMENT INTERACTIONS
<b>FUNDAMENTALS</b> ECOL 610: ECOSYSTEM ECOLOGY BZ 548: THEORY OF POPULATION AND EVOLUTIONARY ECOLOGY	BZ 526: EVOLUTIONARY ECOLOGY ESS 575: MODELS FOR ECOLOGICAL DATA
<b>REQUIRED - PHD (2 COURSES), MS (1 COURSE)</b> ECOL 592 OPTIONS: URBAN ECOLOGY BIODIVERSITY IN WAR ZONES - CONFLICT, CONSERVATION, RECONCILIATION MIGRANT ECOLOGY AND CONSERVATION MULTIVARIATE ANALYSES IN COMMUNITY ECOLOGY ECOLOGICAL STATISTICS IN PRACTICE	<b>ELECTIVES (NOT EXTENSIVE)</b> BZ 560: TEACHING AND COMMUNICATING SCIENCE JTC 792E: CONSERVATION MARKETING

**REQUIRED - ALL**  
ECOL 505: FOUNDATIONS OF ECOLOGY  
LECTURE: T/R 11:00 - 11:50 AM  
RECITATION: R 1:00 - 1:50 PM OR 3:00 - 3:50 PM

**REQUIRED - HEI ONLY**  
ANTH 530: HUMAN ENVIRONMENT INTERACTIONS  
LECTURE: R 2:00 - 4:50 PM

**FUNDAMENTALS**  
ECOL 610: ECOSYSTEM ECOLOGY  
LECTURE: T/R 9:30 - 10:45 AM  
BZ 548: THEORY OF POPULATION AND EVOLUTIONARY ECOLOGY  
LECTURE: M/W/F 1:00 - 1:50 PM  
LAB: R 3:00 - 5:50 PM  
BZ/BSPM 526: EVOLUTIONARY ECOLOGY  
LECTURE: T/R 9:30 - 10:45 AM  
ESS 575: MODELS FOR ECOLOGICAL DATA  
LECTURE: T/R 8:00 - 9:15 AM  
LAB: W 11:00 - 12:50 PM

**REQUIRED - PHD (2 COURSES), MS (1 COURSE)**  
ECOL 592: URBAN ECOLOGY  
LECTURE: T 12:00 - 12:50 PM  
ECOL 592: BIODIVERSITY IN WAR ZONES - CONFLICT, CONSERVATION, RECONCILIATION  
LECTURE: M 6:00 - 8:00 PM  
ECOL 592: MIGRANT ECOLOGY AND CONSERVATION  
LECTURE: T 3-4 PM  
ECOL 592: MULTIVARIATE ANALYSES IN COMMUNITY ECOLOGY  
LECTURE: M 1:15 - 2:30 PM  
ECOL 592: ECOLOGICAL STATISTICS IN PRACTICE  
LECTURE: W 1:00 - 1:55 PM

**ELECTIVES**  
BZ 560: TEACHING AND COMMUNICATING SCIENCE  
LECTURE: T/R 9:30 - 10:45 AM  
JTC 792E: CONSERVATION MARKETING  
LECTURE: T 3:00 - 5:50 PM  
F 624: FIRE ECOLOGY  
LECTURE: M/W TIME TBD  
NR 510: ECOSYSTEM SERVICES - THEORY AND PRACTICE  
LECTURE: M 1:00 - 3:30 PM  
MIP 570: FUNCTIONAL GENOMICS  
LECTURE: M/W 10:00 - 10:50 AM  
LAB: F 10:00 - 11:50 AM  
AREC 535: APPLIED ECONOMETRICS  
LECTURE: T/R 2:00 - 3:15 PM  
AREC 635: ECONOMETRIC THEORY  
LECTURE: T/R 11:00 - 12:15 PM  
ECOL 698: RESEARCH INDEPENDENT HOURS

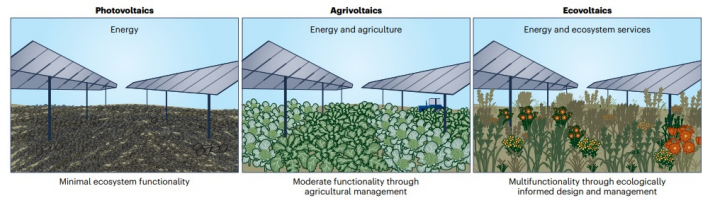
THIS LIST IS NOT EXTENSIVE. SEE WEBSITE FOR MORE DETAILS.



# Recent Publications and Highlights

## Ecovoltaic principles for a more sustainable, ecologically informed solar energy future

*Nature - 2023*



In their new publication, GDPE members **Matt Sturchio** and **Alan Knapp** detail how co-prioritizing ecosystem services and energy generation using an ecologically informed, ‘ecovoltaics’ approach to solar array design and operation will have multiple benefits for climate resilience, biodiversity and the restoration of degraded lands.



## Disturbance and disease: host–parasite interactions in freshwater streams remain stable following wildfire

*Oecologia - 2023*

GDPE members **Emma Svatos**, **Landon Falke**, and **Dan Preston** found that host-parasite interactions in Oregon streams were relatively undisturbed by the historic 2020 wildfires. These results have implications for using parasites as bioindicators of environmental change and suggest that aquatic snail-trematode interactions may be relatively resistant to wildfire disturbance in some ecosystems.

Image provided by Emma Svatos

## Modeling habitat suitability across different levels of invasive plant abundance

*Biological Invasions - 2023*

Traditionally, species distribution models are limited by their use of presence data and include no information on invader population abundance. Results from this study by GDPE members **Catherine Jarnevich**, **Ian Pearse**, **Nathan Teich**, and **Peder Engelstad**, show that fitting distribution models with point locations containing thresholded abundance information can refine range maps and can produce a more targeted assessment of invasion risk.

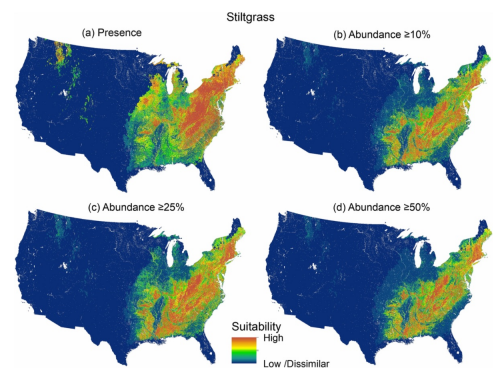


Image provided by Peder Engelstad

## 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 Sci Comm 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 [Elizabeth Diaz-Clark](#) 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](#).

**GPDE Student Teams Channel** - Join our Teams 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.

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## JOBS, FELLOWSHIPS, INTERNSHIPS

### **ESIIL Post-Doctoral Research Scholars**

**Deadline August 31, 2023**

The Environmental Data Science Innovation & Inclusion Lab (ESIIL) is seeking three Post-Doctoral Research Scholars who are working in the field of **environmental data science (EDS)** to address pressing environmental challenges. ESIIL Post-Docs are expected to produce innovative and/or applied environmental biology research while also representing and encouraging a diverse community to thrive in the rapidly evolving field of EDS. Click [here](#) to learn more and apply.

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### **Assistant Professor of Environmental Studies (Geospatial Specialist)**

**Deadline September 1, 2023**

The Department of Environmental Studies at St. Olaf College invites applications for a **full-time, tenure track position as a Geospatial Specialist** at the Assistant Professor level, to begin August 2024. The normal teaching load is five courses per year. Primary teaching responsibilities include EnvSt 255 (GIS/remote sensing), at least one integrative core course within the environmental studies major, and developing one or more GIS-based or spatially oriented courses in your area of specialization. The integrative core courses comprise EnvSt 137 (Introduction to Environmental Studies), EnvSt 237 (Integration and Applications in Environmental Studies, making use of civic engagement), and EnvSt 399 (Senior Capstone). Duties also involve advising, committee service, departmental and institutional obligations such as attending faculty meetings. Click [here](#) for more details.

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### **Smith Fellows 2024 Call for Proposals**

**Deadline September 15, 2023**

The Society for Conservation Biology is pleased to solicit applications for the David H. Smith Conservation Research Fellowship Program. These **two-year postdoctoral fellowships** provide support for outstanding early-career scientists who propose innovative ways to link conservation science and theory with policy and management. The Program supports and encourages Fellows to improve and expand their research skills while directing their efforts towards addressing conservation problems of pressing concern for the United States. Click [here](#) for more details.

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### **Assistant Professor of Biology - Aquatic Ecology**

**Deadline September 18, 2023**

The Department of Biology at St. Olaf College invites applications for a **full-time, tenure track position in Aquatic Ecology** (freshwater or marine) at the Assistant Professor level to begin

August 2024. Teaching responsibilities include regular teaching of the ecological principles course with lab (BIO 261), which serves Biology and Environmental Studies majors. Other courses taught in the successful candidate's area(s) of interest could be existing (e.g. Limnology or Biogeochemistry) or new, at varying levels (introductory to advanced), and could emphasize a range of skills (e.g., written communication, programming, quantitative modeling). The normal teaching load is five courses per year. Click [here](#) for more details.

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**Ph.D. Opportunity in Freshwater Ecosystem Science at Virginia Tech**  
**Preferred Deadline October 1, 2023**

The Carey Lab in the Department of Biological Sciences at Virginia Tech is recruiting **two graduate students in freshwater ecosystem science to start at the Ph.D. level in January 2024 or August 2024**. We seek enthusiastic and self-motivated students who can work independently while participating in a fun and highly collaborative lab environment and encourage interested students to read through our [Mission Statement](#), [Code of Conduct](#), [Diversity & Inclusion Statement](#), and other lab resources posted on our website to learn more about our group. Click [here](#) to learn more.

Submit a Job Announcement



GRADUATE DEGREE  
PROGRAM IN ECOLOGY  
COLORADO STATE UNIVERSITY



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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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