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**January 30, 2023**

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Hello GDPE Community,

It is Distinguished Ecologist seminar week! What better way to take a break from the snow and cold than to hear from one of our colleagues from just down the road? Dr. Ambika Kamath will present a seminar to us on Wednesday February 1<sup>st</sup> at 4 pm (see details below). Dr. Kamath, an assistant professor in the Department of Ecology and Evolutionary Biology at the University of Colorado, is designated as one of our “Rising Star” Distinguished Ecologists and she studies animal behavior – specifically how animals interact with one another and with their environments, and the ecological and evolutionary consequences of these interactions.

As a reminder, the Distinguished Ecologist program is a central feature of the GDPE curriculum and Dr. Kamath will be one of three visiting Distinguished Ecologists visiting campus this spring semester. Please make attendance of these seminars a priority if you are able. It's always great to not only have a great crowd at the talks, but to catch up with everyone at the reception (did I mention free food?) afterwards.

See you there.

Alan Knapp  
Your GDPE Senior Ecologist



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**GDPE EVENTS & ANNOUNCEMENTS**



GRADUATE DEGREE  
PROGRAM IN ECOLOGY  
COLORADO STATE UNIVERSITY

# SPRING 2023 DISTINGUISHED ECOLOGIST SEMINAR

*"Ungrading, Cross-Disciplinarity, and Other  
Adventures in Teaching Animal Behavior"*



**AMBIKA KAMATH**



1 February 2023



4:00pm



Biology 136

Reception at 5:00pm in the Biology 3rd Floor Atrium

University of Colorado - Boulder  
Assistant Professor in the Dept.  
of Ecology and Evolutionary Biology

## GDPE Distinguished Ecologist Seminar

Please join GDPE in welcoming our Rising Star Distinguished Ecologist, Dr. Ambika Kamath for her talk "Ungrading, Cross-Disciplinarity, and Other Adventures in Teaching Animal Behavior".

The seminar will be held this Wednesday, February 1st at 4:00pm in Biology 136. Refreshments will be served outside Biology 136 from 3:30-4:00pm. There will be a reception directly following the seminar at 5:00pm in the Biology Building 3<sup>rd</sup> Floor Atrium. We hope to see you all there!

## 29TH ANNUAL FRONT RANGE STUDENT ECOLOGY SYMPOSIUM

REGISTRATION AND ABSTRACT SUBMISSIONS DUE 2/1!

Visit our site below to register and submit  
an abstract!



FEBRUARY 23-24, 2023  
LORY STUDENT CENTER



VISIT OUR SITE  
AT [FRSES.ORG](https://frses.org)



[CSU\\_FRSES](https://twitter.com/CSU_frses)



[GDPE\\_FRSES@COLOSTATE.EDU](mailto:GDPE_FRSES@COLOSTATE.EDU)

## Participate in 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. **The deadline for submitting an abstract has been extended to Wednesday, February 1st!** Our keynote speaker will be **Dr. Danielle Ignace**, an ecophysiologicalist, science communicator, and an advocate for Indigenous voices in STEM. Find out more about Dr. Ignace [at her website](#). For more event information and to get involved, check out our website <https://frses.org> and follow us on Twitter [@CSU\\_frses](https://twitter.com/CSU_frses).

Symposium registration and abstract submission are now LIVE on the [Front Range Student Ecology Symposium website!](#) Registration is required for all attendees, including faculty. We are also recruiting facilitators for workshops, panels, and Inspire sessions. FRSES is a great place to find community and share your research with a local audience. We look forward to seeing you all there!

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## GDPE Event Calendar

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### DEADLINES

#### **GDPE Deadlines**

**February 1** - Annual Student Progress Report - see email from Jennifer Neuwald and details [here](#).

**February 14** - GDPE Small Research Grant Proposals due

**February 28** - GDPE Travel & Professional Development Grants due

#### **Other Deadlines**

**January 31** - Request for Change of Department and/or Degree Program (GS7) for SPRING 2023

**February 6** - Q3 GSC Professional Development and Supply Grant

**February 9** - Deadline to Apply to Graduate for SPRING 2023 GRADUATES. Access the form on [RAMweb](#).

*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](#).*

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### ECOLOGY & CSU EVENTS

#### **Colorado PARC 2023 Annual Meeting**

MARK YOUR CALENDARS & [GRAB YOUR TICKETS!](#)

Come on out to our 2023 Annual Meeting! We are excited to have this event again but capacity is very limited, so get your tickets soon!

This year the meeting will be hosted on February 4th, at the Colorado Parks & Wildlife Headquarters in Denver. Follow us on [Facebook](#) for updates!

**Colorado Partners in Amphibian and Reptile Conservation**

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#### **Ecological Society of America 2023 Annual Meeting**

ESA invites abstracts for contributed presentations (talks and posters) for the 2023 Annual Meeting, which will take place August 6-11 in Portland, Oregon.

Abstracts are encouraged to address the meeting theme [ESA for All Ecologists](#) if appropriate but doing so is not necessary. Abstract submissions are due Thursday, February 23 (1 month from today!). More information [here](#).

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#### **Ecological Society of America Webinars**

**Write a Good Abstract, Give a Better Talk** - **February 6** [register here](#)

Join Bruce Kirchoff for his workshop on effective scientific presentations.

**Alt-Academic Career Q&A I** - **February 8** [register here](#)

Join ESA's Early Career Ecologists Section for the first of two panels exploring diverse career pathways in ecology. See how some early career scientists got into their current fields, and get advice for how you can pursue a similar pathway.

Featuring:

\* Cari Ficken, Sustainability Project Manager, New York Power Authority

- \* Madeline Strom, Instructional Designer, University of Arizona
- \* Pacifica Sommers, Metagenomics Data Scientist, Bayer Crop Science

### **Alt-Academic Career Q&A II - February 9** [register here](#)

Join ESA's Early Career Ecologists Section for the second of two panels exploring diverse career pathways in ecology. See how some early career scientists got into their current fields, and get advice for how you can pursue a similar pathway.

Featuring:

- \* Kristen Emmett, ORISE Fellow, USDA Forest Service
- \* Cait Rottler, New Mexico Climate Adaptation Specialist, South Central Climate Adaptation Science Center
- \* Avery Scherer, Senior Ecologist, Cramer Fish Sciences

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### **Graduate School**

The Spring 2023 Graduate Professional Development Series offers an excellent selection of Lunch and Learns and Virtual Speakers. From sessions designed to help you communicate more clearly to sessions designed to help your success on the job market, the Graduate School encourages you to prioritize your professional growth and well-being.

**LUNCH & LEARNS** offer workshop intensives on a topic, accompanied by lunch to provide good energy for great learning. Upcoming events include:

**FEB 3, 1-3 p.m.** | Negotiating Your Job Offer with Dr. Michael Gross, Department of Marketing [Register here.](#)

**The GradCO series** offers additional professional development opportunities with webinars hosted by Colorado's universities.

**FEB 1, 12-1 p.m.** | Drive Research by Creatively Asking Questions, hosted by Colorado School of Mines | [Register here.](#)

**FEB 8, 12-1 p.m.** | Communicating Research to Non-Experts, hosted by Colorado School of Mines | [Register here.](#)

Practice sustainability by attending the events you register for. Add sessions to your personal calendar, subscribe, and request reminders through the events [calendar:](#)

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## **COURSES**

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

◆ **ECOL592 003** Continuation of Fall 2022 ECOL 610 Project (*Dr. Joe von Fischer*)  
**CRN: 15033 Credits: 1** *Please register for 1 credit only.*

◆ **ECOL592 004** Transdisciplinary Approaches in Sustainability: principles & practice (*Dr. Joe von Fischer*) **CRN: 10127 Credits: 1** *Please register for 1 credit only.*

◆ **ECOL592 006** Sustainable Food Systems (*Dr. Meagan Schipanski*) **CRN:10129 Credits: 1** *Please register for 1 credit only.*

◆ **ECOL592 002** Assessing the Genetic Status of US Endangered Species Act-listed Species (*Drs. Chris Funk, Brenna Forester, Sean Hoban*) **CRN:10126 Credits: 1** *Please register for 1 credit only.*

## Assessing the Genetic Status of US Endangered Species Act-listed Species

**Instructors:** Drs. Chris Funk, Brenna Forester, Sean Hoban

Extracting genetic and demographic information (effective size and census size) of threatened species from existing US FWS reports to develop a publishable meta-analysis on USA species genetic status, building on prior work. Will lead to students better understanding of standardized data collection, management of qualitative and quantitative data, group collaboration, and species management and policy.

 **Tuesdays**  
2:00 - 2:50



Maguire's daisy



mountain yellow  
legged frog



piping plover

◆ **ECOL592 005/FWCB 696** Ecological Science Writing (*Drs. Dan Preston and Kevin Bestgen*)  
CRN: 10128 **Credits: 2** *Note: this course is a 2 credit course*

Spring 2023




ECOL 592-005/FW 696

## Ecological Science Writing

**Instructors:** Drs. Dan Preston and Kevin Bestgen

Students will gain knowledge and skills focused on 1) organizing a scientific paper, 2) the process of publishing a scientific paper, 3) enhancing writing behavior, and 4) style for scientific writing. The instructional format will include lectures, discussions, written assignments, peer-review, and readings from *The Scientist's Guide to Writing* by S. B. Heard. Students are strongly encouraged to have their own writing project (e.g., manuscript) to work on as they develop and hone their writing skills.

 **Tuesdays**  
3:00 - 4:40pm

**2 credits**  
CRN: 10128



◆ **ECOL592 007** Pollinators and Citizen Science (*Drs. Gillian Bowser and Phil Halliwell*) CRN: 12969  
**Credits: 1** *Please register for 1 credit only.*

# POLLINATORS AND CITIZEN SCIENCE

Drs. Gillian Bowser & Philip Halliwell



Biodiversity loss and pollinator decline are two emerging topics of discussion in the climate change debate. What are some of the drivers of pollinator declines, how can biodiversity loss be measured against changing climate and how can these be detected using citizen science?

**TUESDAYS**

12:00 pm

1 credit

Keep checking back here and on our [website](#) for new ECOL 592s

## AGRI 638 - Ecosystem Service on Agricultural Lands

3-credit online course that 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. Taught by Dana Hoag

## **ECOL and AB 581A2 - Insect Ecology**

Insects play crucial roles in most ecosystems, and their biology is just fascinating - come learn all about them in this new experimental course taught by GDPE Director Ruth Hufbauer.

3 credits, 10-10:50 MWF.

ECOL Lecture CRN: 21553; AB Lecture CRN: 21102

ECOL/AB 581A2

# INSECT ECOLOGY

Instructor: Dr. Ruth Hufbauer

ECOL Lecture CRN: 21553; AB Lecture CRN: 21102

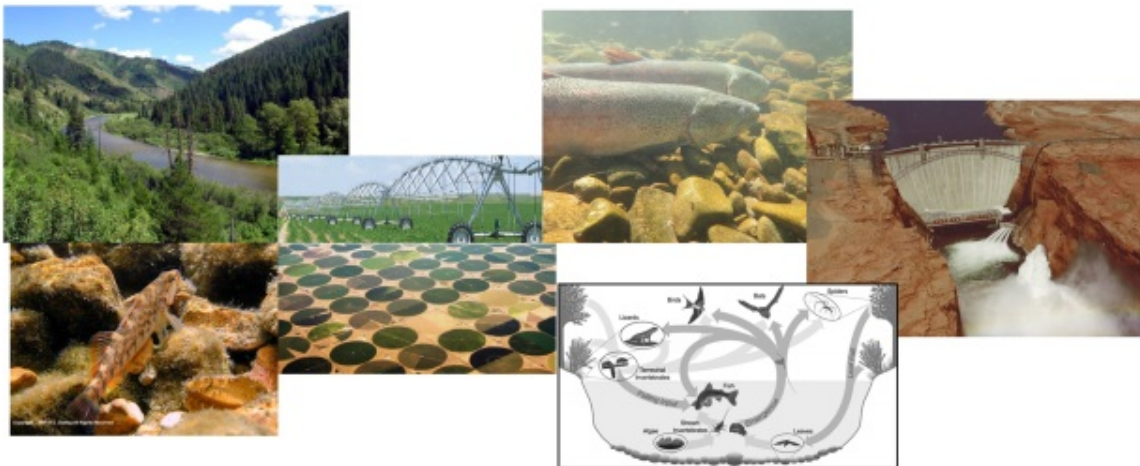
	<b>Class</b>	<b>Recitation</b>
	Mondays & Wednesdays 10:00 - 10:50am	Thursdays 9:00 - 9:50am

**World (3 credits)**

Tuesday and Thursday 11 am–12:15 pm

Engineering, E 106

Instructors: LeRoy Poff (Biology) & Yoichiro Kanno (FWCB)



**Offered Spring 2023!**

**BZ 568 (CRN 20597) & FW 568 (CRN 20598)**

**Sustaining River Ecosystems in a Changing World (3 credits)**

**Tuesday and Thursday 11 am–12:15 pm**

**Engineering, E 106**

**Instructors: LeRoy Poff (Biology) & Yoichiro Kanno (FWCB)**

*Course objective: Apply the concepts and principles of river ecosystem structure and function to develop a multidisciplinary and integrated understanding of the approaches and methods for restoring and sustainably managing these systems in the face of increasing human demands and rapid climate change. The course aims to bring together perspectives from ecological scientists, resource managers, engineers, hydrologists and social scientists to study and discuss the interdisciplinary challenges of sustaining riverine ecosystems and biodiversity.*



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## Recent Publications



*Image by Matt Sturchio*

**Grassland productivity responds unexpectedly to dynamic light and soil water environments induced by photovoltaic arrays**

Check out GDPE Ph.D. Student and first author **Matt Sturchio's** recent publication in *Ecosphere*.

[Read the article 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

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**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!

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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

### **Postdoctoral Research Scholar in Urban Spatial Ecology**

#### **Application closing date January 30**

CAPLTER seeks a postdoc to develop and analyze land use/cover change and bioclimatic metrics in residential landscapes and open spaces (e.g., urban parks, riparian areas, desert preserves) within the CAP ecosystem at various spatial and temporal scales to understand how varied urban environmental factors shape vegetation and wildlife communities. The successful candidate will have a Ph.D. in geography, ecology, environmental science, plant or wildlife science, remote sensing, spatial ecology, or a related field by the time of appointment. The Ph.D. must have been earned within the last four years. More information [here](#).

### **Rocky Mountain Conservancy & Rocky Mountain National Park**

#### **Continental Divide Research Learning Center**

#### **2023 Call for Bailey Fellowship Research Proposals**

#### **Application closing date February 1**

The RMNP Bailey Research Fellowship is an endowed program of the Rocky Mountain Conservancy that is funded by the Leslie Fidel Bailey Charitable Trust. It is designed to encourage highly qualified graduate students to apply their talents to conducting research in national parks. It is also intended to convey the importance of communicating park research to the public. More information [here](#).

### **Ecologist at Rocky Mountain National Park**

#### **Application closing date February 2**

The National Park Service seeks an ecologist at Rocky Mountain National Park in the Division of Resource Stewardship. The ecologist will manage the forestry program, including inventories and treatments for forest pests and pathogens. More information [here](#).





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