

## Welcome!

Fall 2020 Newsletter Series

## Fall 2020 Meeting Dates

All meetings will occur on [Zoom](#) at **12:00pm** on the following dates:

- Friday, Oct. 16<sup>th</sup>
- Friday, Nov. 13<sup>th</sup>

## Upcoming Events:

- **Lunchtime Seminars:**  
Mondays, 12:00, Zoom  
-[Scott Goepner](#), Nov. 9<sup>th</sup>  
-[CLICK HERE](#) to sign up to present!

## Integrative Biology Seminars:

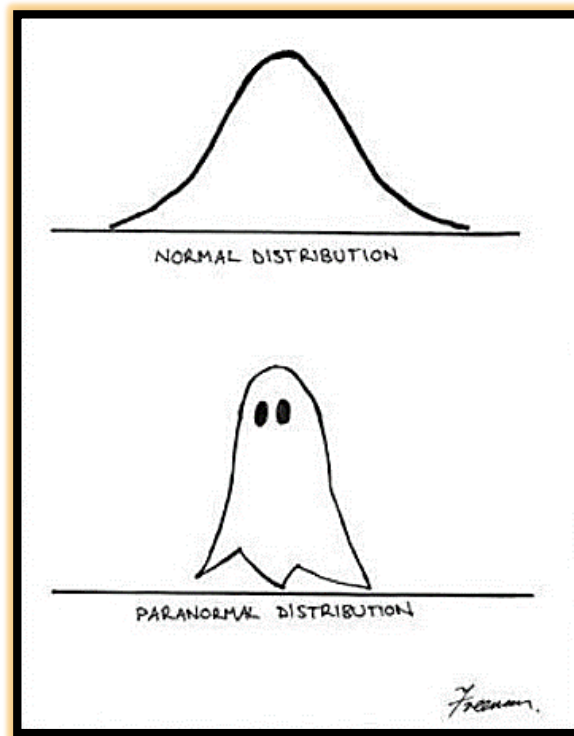
- **Fridays at 3:30 PM on Zoom**  
-Oct. 9<sup>th</sup> – Dr. Tom Curtis  
-Oct. 16<sup>th</sup> – Dr. Ximena Bernal  
-Oct. 23<sup>rd</sup> – Dr. Clay Prater  
-Oct. 30<sup>th</sup> – Dr. Matteo Minghetti  
-Nov. 6<sup>th</sup> – Dr. Daniel Moen  
-Nov. 13<sup>th</sup> – Dr. Puni Jeyasingh  
-Nov. 20<sup>th</sup> – Dr. Matthew Bolek



# ZoGSS Newsletter

## September/October 2020

We hope this newsletter finds you all safe and healthy! Time really snuck away from us this fall, so please enjoy the combined September/October newsletter.



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The next ZoGSS meeting is **Friday, October 16<sup>th</sup> at 12:00 on Zoom**. If you have any outreach opportunities or other ideas for ZoGSS to consider doing in this socially-distanced semester, please reach out to Exec or the appropriate committee members!

**Remember to pay your dues!** The cost is **\$10.00** if you pay Taylor Carlson before our next meeting! You can put your money in an envelope in her mailbox, or pay her through various money exchange apps such as Venmo and PayPal (*see the September meeting minutes for more details*). Remember, **you are not eligible for ZoGSS awards in the spring unless you have paid your dues!!**

**Fundraising merchandise – Pint glasses** are still available for \$8.00, **mugs** for \$12.00, and **stickers** for either \$1.50 or \$4.00!

**Send us your photo!** Make sure you send Carrie your photo for the 4<sup>th</sup> floor display board if you haven't already! ([carrie.klase@okstate.edu](mailto:carrie.klase@okstate.edu))



## ZoGSS Outreach GroupMe



## Outreach

### Trash-Off

This past weekend, ZoGSS assisted with the city-wide Trash-Off program to help keep the streets of Stillwater clean. The ZoGSS crew filled 4 bags of trash on a stretch of N. Perkins Rd. Nice job team! The Outreach Committee also created a GroupMe for quick communication in coordinating & organizing outreach events. You can join by scanning the QR code to the left!



*Left to right: Angela Riley, Scott Goepfner, Teri Cocke, Emily Geest, James Erdmann.  
Not pictured: Ryan Koch*

### Book donation

ZoGSS will be sponsoring the book “Swimming with Sharks: The Daring Discoveries of Eugenie Clark” by Heather Lane to multiple Payne County elementary schools. Please make sure you pay your dues so you can participate in the vote to approve funds for this great outreach opportunity!

### October BioBlitz: October 2<sup>nd</sup> – 4<sup>th</sup>

This state-wide event is hosted by the Biological Survey of Oklahoma. You can participate as long as you have an ebird or iNaturalist account. Register this year to get a free BioBlitz sticker! <https://biosurvey.ou.edu/bioblitz2020/>

### QPR Training

The Department of Wellness offers a free QPR (*Question, Persuade, and Refer*) training (similar to a CPR training but for mental health). Anyone from OSU can register and get trained and it takes about an hour. Training is good for 2 years: <https://wellness.okstate.edu/employee-wellness/qpr.html>



## Potential Outreach Ideas:

- Guest webinars for schools  
(*What's it like being a scientist? What do you do as a scientist?*) – aimed currently for 3<sup>rd</sup> – 5<sup>th</sup> graders, but could do other grades if the interest is there
- Let the outreach committee (**Emily Geest, James Erdmann, and Teri Cocke**) know if you have other cool outreach ideas!

## Workshops

Send ideas for workshops to Angela ([agoffri@okstate.edu](mailto:agoffri@okstate.edu)), or offer to lead a workshop teaching a valuable skill you have! Potential workshop ideas include “**How to present virtually**” and “**Advice from OSU alumni on how they got their jobs.**”

## Help us decorate the 1<sup>st</sup> floor lobby display case

We discussed having something artsy in the display case, but nothing definitive has been decided yet. The CoV has collaborated with art students in the past, so that is a potential avenue we could pursue again. **Send Carrie any ideas you have!** ([carrie.klase@okstate.edu](mailto:carrie.klase@okstate.edu))



## Upcoming Deadlines

Oct. 19: NSF GRFP

Oct. 20: GPSGA Travel Award

Oct. 31: GPSGA Research Materials Grant



## Graduate Student Spotlight: Ryan Koch

Congratulations to Ryan on his recently accepted publication in the *Journal of Wildlife Diseases*!

**Koch, R.W.** and Reichard, M. Using ecological niche modeling to predict the suitable habitat for *Trichinella* species in cougars (*Puma concolor*) from Colorado. *Journal of Wildlife Diseases*. Accepted July 7, 2020. In press.



This was a fun little side project I worked on over the past few years with Dr. Mason Reichard in the vet school at OSU. The goal of this study was to try to predict the suitable habitat and ecological drivers of *Trichinella* spp. in cougars in the southwestern region of Colorado using species distribution modeling. We found areas of suitable habitat for *Trichinella* spp. to be associated with lower elevation, lower temperature, and areas of evergreen forests and grasslands. These results may indicate potential transmission hotspots for *Trichinella* spp. in Colorado for where cougars are consuming infected hosts and where cougars can transmit to other hosts, including humans.



## Central Ecology & Evolution Conference (CEEC)

CEEC was hosted by students at OSU in April 2017 and Miranda Kirsten (a former Baum lab member) is interested in bringing it back. This is a regional conference (people from Oklahoma and surrounding states) with posters, talks, and a plenary speaker. With the pandemic in mind, we may look into hosting the conference through Zoom. Stay tuned for more details!

If you would like to learn more about the 2017 conference, you can access the old conference website here:

<https://centralecoevo.wixsite.com/home>

## Graduate Student Spotlight: Austin Leone

**Congratulations to Austin Leone for being awarded the Distinguished Graduate Fellowship for the 2020-21 academic year!**



The Distinguished Graduate Fellowship recognizes outstanding, full-time OSU graduate students from any disciplinary or interdisciplinary program. These students show dedication, involvement, and evidence of interdisciplinary creative activities and scholarly contributions through awards, honors, research projects, publications, presentations at professional meetings, and leadership activities.



## Recent Graduate Student Awards, Publications, and Presentations



### Publications

#### MD Ibrahim & Dean Oldham:

Ibrahim, M., Oldham, D., Minghetti, M., 2020. Role of metal speciation in the exposure medium on the toxicity, bioavailability and bio-reactivity of copper, silver, cadmium and zinc in the rainbow trout gut cell line (RTgutGC). *Comparative Biochemistry and Physiology - Part C: Toxicology & Pharmacology* 236, 108816. <https://doi.org/10.1016/j.cbpc.2020.108816>

### Presentations

#### Jonathan Albers:

Albers, J. Albers & Reichert, M.S. 2020. Olfactory learning and aggression in *Acheta domestica*. 2020 Virtual Meeting of the Animal Behavior Society. July 2020.

#### Angela Riley:

Riley, A.K., Grindstaff, J.L. July 23, 2020. The effects of paternal deprivation on learning and social behavior in zebra finches (*Taeniopygia guttata*). 4th Annual Joint Meeting of Oklahoma Society of Physiologists, Tulsa Society for Neuroscience Chapter, and Tulsa Area Bioscience Education and Research Consortium. Virtual conference.



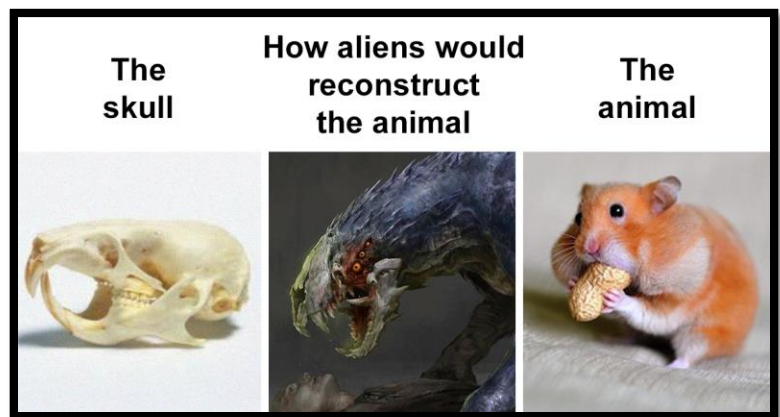


## Recent Defenses

**Katerina Ramos – M.S. defense** – Informational Environments and Anti-Predator Behavior in *Physa acuta*. M.S. defense.

**Ann Money – Ph.D. defense** – Fluorescence emission as an early indicator of coral health and as a visual cue for symbiotic algae: The effect on STEM interest after a field trip to a public aquarium.

**Jonathan Harris – Ph.D. defense** – Exploring gradients of habitat suitability, habitat quality, and microclimate: implications for gray vireo nesting ecology and management.



## NEW! Collection of Vertebrates Virtual Tour

CoV Collection Managers Justin Agan and Sarah Hileman put together a virtual tour video answering questions about the CoV and highlighting cool specimens from the collection. Sarah is the collection manager for the dry collection –mammals and birds – while Justin is the collection manager for the wet collection – amphibians, reptiles, and fish. Follow the link below to access the video and feel free to share it!

<https://www.youtube.com/watch?v=B99mLQweJtM>



*Don't forget to join our Facebook page "OSU Zoology Graduate Student Society" for more day-to-day updates.*



## Contact Us

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### Executive Committee:

Austin Leone – *President*  
 James Erdmann – *Vice President*  
 Dani Kirsch – *Secretary*  
 Taylor Carlson – *Treasurer*

### Fundraising Committee:

Shauni Windle & Adriana Townsend

### Planning Committee:

Carrie Klase

### Seminar Committee:

Taylor Carlson

### Award Committee:

David Berman

### Technology Committee:

Emily Geest

### Graduate Committee:

Scott Goepner

### Lunchtime Seminars:

Jonathan Albers

### Faculty Council:

Ryan Koch, Sarah Hileman, &  
 Adriana Townsend

### GPSGA:

James Erdmann & Jonathan Albers

### Outreach Committee:

Teri Cocke, Emily Geest, & James  
 Erdmann

### Workshop Committee:

Angela Riley

## Meet Your Peers

**Baum lab** – David Berman, Teri Cocke, Eric Duell\*, Sarah Elzay, Emily Geest, Carrie Klase\*, Ashley Knoch, Tyler Spresser\*

**Belden lab** – Sarah Hileman, Carrie Klase\*, Will Mimbs, Adriana Townsend, Ryan Grewe, Shauni Windle\*

**Bolek lab** – Ryan Koch, Ryan Shannon, Allison Bryant

**Bruck lab** – Tabitha Gunnars\*, Rachel Hamrock\*, Paige Stevens\*

**Cabrera-Guzmán lab** – Taylor Carlson\*

**Dzialowski lab** – Bobby Bowser, Brian Eachus

**Fox lab** – Justin Agan, Taylor Carlson\*

**French lab** – Austin Leone, Connor Locke, Kyle Moore

**Grindstaff lab** – Angela Riley, Sierra Williams, Victoria Roper

**Jeyasingh lab** – Yetkin Ipek

**Lovern lab** – Brooke Hoover, Jay Walton, Tabitha Gunnars\*, Rachel Hamrock\*, Paige Stevens\*

**Luttbeg lab** – Scott Goepner, Dani Kirsch, Jamie Najar

**McCullagh lab** – Racheal Brodsky, Amita Chawla

**McMurry lab** – Shauni Windle\*

**Minghetti lab** – MD Ibrahim, Dean Oldham

**Moen lab** – Jack Spicer

**Reichert lab** – Jonathan Albers, James Erdmann, Courtney Byrd

**Waldman lab** – Michael Ellison, Samantha Garza, Bailee Augustino, Sourjya Nath

**Wilder lab** – Jacob Reeves, Tyler Spresser\*, Colton Herzog

*\*indicates co-advised grad students*

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**ZoGSS serves as the representative organization and voice of the graduate student body of the Department of Integrative Biology at Oklahoma State University. Our mission is to provide professional and social opportunities for the graduate students in our department.**

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