

# Danielle D. Crain

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## Research Interests

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Exploring how environment impacts animal stress and reproduction via investigations into their endocrinology and carbon and nitrogen isotopes particularly of metabolically inert biological matrices (*e.g.*, whiskers, claws, hair, teeth, bone, baleen, earplugs) that grow over time. Other interests include animal physiology, marine mammal biology, environmental modeling, and science outreach.

## Academic Appointments

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Postdoctoral Researcher, Alaska Department of Fish & Game October 2019 – Oct. 2020

*Principal Investigator:* Dr. Lori Polasek

- Analyzed the relationship between cortisol, progesterone, nitrogen and carbon stable isotope data from bearded and ringed seal claws to explore the relationship between stress, reproduction, and diet/location.
- Manuscript submission: "Using claws of ice seals to analyze life history and diet of female bearded and ringed seals in the Bering and Chukchi seas, Alaska, from 1953-1968 and 1998-2014." 2020. Crain, D., Karpovich, Polasek, L., S., Quakenbush, L. Accepted pending minor revisions to *Conservation Physiology*.

## Education

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Ph.D. Biology, Baylor University 2015 – Present (October 2020)

GPA: 4.0

*Dissertation:* "Hormone time-travel: retrospective longitudinal endocrinology using baleen whale earplugs"

Chapters:

1. Hormone comparison between right and left baleen whale earplugs
2. Comparison of steroid hormones in three biological matrices of baleen whales: earplugs, baleen, and blubber
3. Reproductive parameters, senescence, and modeling rate of increase from baleen whale earplugs

M.E.M., Coastal Environmental Management, Duke University 2012

GPA: 3.6

*Thesis:* "Body orientation of short finned pilot whales during foraging bouts off Cape Hatteras, NC, USA."

B.Sc. Ecology & Evolution, University of California, Santa Cruz 2009

GPA: 3.94, *Summa cum laude*

*Thesis:* "Microhabitat use of humpback whales in Southeast Alaska"

## Publications

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*Peer-reviewed publications:* 4, *in review process*<sup>\*</sup>: 2, *in preparation*<sup>δ</sup>: 2, *undergraduate students I mentored*<sup>†</sup>: 1

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9. **Crain, D.**<sup>δ</sup>, Mansouri, F., Potter, C., Usenko, S., Trumble, S.J. 2020. Comparison of steroid hormones in three biological matrices of baleen whales: earplugs, baleen, and blubber. In preparation.

8. Mansouri, F.<sup>\*</sup>, **Crain, D.**, Winfield, Z., Sabin, R., Potter, C., Fulton, J., Trumble, S.J., Usenko, S. 2020. Evidence of multi-decadal behavior and ecosystem-level changes revealed by reconstructed lifetime stable isotope profiles of baleen whale earplugs. Major revisions to Science of the Total Environment.
7. **Crain, D.**<sup>\*</sup>, Usenko, S., Mansouri, F., Winfield, Z., Zerbini, A.N., Gabriele, C.M., Sabin, R., Potter, C., Trumble, S.J. 2020. Reproductive parameters, senescence, and modeling rate of increase from baleen whale earplugs. Revise and resubmit to Communications Biology.
6. **Crain, D.**<sup>\*</sup>, Polasek, L., Karpovich, S., Quakenbush, L. 2020. Using claws of ice seals to analyze life history and diet of female bearded and ringed seals in the Bering and Chukchi seas, Alaska, from 1953-1968 and 1998-2014. Minor revisions at Conservation Physiology.
5. Mansouri, F., **Crain, D.**, Winfield, Z., Sabin, R., Potter, C., Zhang, R., Trumble, S.J., Usenko, S. 2020. A lipid normalization model for the analysis of stable isotopes in baleen whale earplug. Marine Mammal Science. In press. doi: 10.1111/mms.12756
4. **Crain, D.**, Thomas, A.<sup>†</sup>, Mansouri, F., Potter, C., Usenko, S., Trumble, S.J. 2020. Hormone comparison between right and left baleen whale earplugs. Conservation Physiology. 8(1), doi:10.1093/conphys/coaa055 [LINK](#)
3. Trumble, S. J., Norman, S.A. **Crain, D.**, Mansouri, F., Winfield, Z.C., Sabin, R., Potter, C., Gabriele, C.M., Usenko, S. 2018. Baleen whales divulge a physiological response to 20<sup>th</sup> century whaling. Nature Communications. 9(1): 1-8. [LINK](#)
2. **Crain, D. D.**, Friedlaender, A. S., Johnston D. W., Nowacek, D. P., Roberts, B. L., Urian, K. W., Waples, D. M., Read, A. J. 2014. A quantitative analysis of the response of short-finned pilot whales, *Globicephala macrorhynchus*, to biopsy sampling. Marine Mammal Science. 30(2): 819-826. [LINK](#)
1. Canning, C., **Crain, D.**, Eaton, T.S. Jr., Nuessly, K., Friedlaender, A., Hurst, T., Parks, S., Ware, C., Wiley, D., Weinrich, M. 2011. Population-level lateralized feeding behavior in North Atlantic humpback whales (*Megaptera novaeangliae*). Animal Behaviour. 82(4): 901-909. [LINK](#)

## Skills

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**Laboratory:** Soxtec manual fat analysis, lipid extraction, enzyme-linked immunosorbent assays (ELISAs), earplug delamination, baleen sectioning, analytical lab techniques (pipetting, weighing).

**Programming Language:** R (proficient)

**Field:** Level 1 marine mammal stranding responder, three baleen whale necropsies, 400+ hours as marine mammal observer, 175+ hours driving rigid-hulled inflatable boat and fiberglass skiffs in close proximity to marine mammals, zooplankton tows, taking photos of humpback whale for catalog ID.

**Outreach:** 30+ scientific presentations from first grade to undergraduates and graduate students, 15+ professional presentations at society conferences, co-founding science outreach group Present Your PhD and audio academic outreach STEMculture Podcast, teaching effective communication to small groups and one-on-one.

**Language:** Proficient in conversational Spanish, can also present on scientific research in Spanish.

**Project Management:** Learning and instructional design, public speaking, written communication, critical thinking, evidence-based decision making, prioritization, realistic timeline, conflict management.

**Interpersonal:** Leadership, mentoring, collaboration, facilitating panels and discussions, and teaching.

## Awards

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Society of Comparative and Integrative Biology Division of Comparative Endocrinology 3 January 2021  
Aubrey Gorbman Best Student Paper Award Nominee

Baylor Undergraduate Research and Scholarly Achievement (URSA) Scholar's Week 8 April 2020  
Undergraduate students I mentored received the "Outstanding Poster Presentation Award"

Society of Comparative and Integrative Biology Division of Comparative Endocrinology 5 January 2020  
Aubrey Gorbman Best Student Paper Award Nominee

World Marine Mammal Conference Audience Favourite Award 12 December 2019

Inclusive Environments and Metrics in Biology Education and Research (iEMBER) Collaborative Pitch Award for "Evaluating STEMculture Podcast"	15 April 2019
Women in the Academy (WiTA) Mentor Program	Aug 2017 – May 2018
Baylor University Outstanding Graduate Student Instructor Award Winner	Spring 2017
Baylor University Outstanding Graduate Student Instructor Award Nominee x3	Fall 2016 – Spring 2017
Graduate School Fellowship (\$6000/year)	Aug 2015 – Aug 2020

## Funding

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2020 Society of Comparative and Integrative Biology - Virtual Charlotte Mangum Student Support Recipient	January-February 2021
2020 Society of Comparative and Integrative Biology - Austin, Texas Baylor University Biology Department Travel Grant Baylor Graduate School Travel Grant Charlotte Mangum Student Support Recipient	January 2020
2019 World Marine Mammal Conference - Barcelona, Spain Baylor University Biology Department Travel Grant Baylor Graduate School Travel Grant	December 2019
2019 Research Coordination Network Workshop Modeling from Genomes to Phenomes to Populations Travel Grant	July 2019
2019 iEMBER Conference Inclusive Environments and Metrics in Biology Education and Research (iEMBER) Travel Grant	April 2019
Doctoral Research at Canadian Museum of Nature, Ottawa, Ontario, Canada Baylor University Biology Department Travel Grant Baylor Graduate School Travel Grant	November 2018
2018 Student Conference on Conservation Science - New York Baylor University Biology Department Travel Grant Baylor Graduate School Travel Grant	October 2018
C. Gus Glasscock, Jr. Endowed Fund of Excellence in Environmental Sciences <i>Title: "Burning the candle from both ends: assessing three stress biomarkers in the earplugs of baleen whales, the sentinels of the marine ecosystem"</i> – \$6,500	May 2018
22 <sup>nd</sup> Biennial Conference on the Biology of Marine Mammals Baylor University Biology Department Travel Grant Baylor Graduate School Travel Grant	October 2017
57 <sup>th</sup> Annual Conference for the Society of Integrative and Comparative Biology Baylor University Biology Department Travel Grant Baylor Graduate School Travel Grant	January 2017
C. Gus Glasscock, Jr. Endowed Fund of Excellence in Environmental Sciences <i>Title: "Determining decades of ocean productivity via astaxanthin in whale earwax"</i> – \$7,500	May 2016
Baylor University Research Committee <i>Title: "Determining whale pregnancies from their earwax"</i> – \$7,500	April 2016

## Research Experience

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<b>Baylor University</b>	Waco, TX
Research Assistant, Teaching Assistant, Graduate Fellow	August 2015 – Present (October 2020)
<i>Principal Investigator: Dr. Stephen Trumble</i>	

- Delamination of baleen whale earplugs, baleen sampling, lipid extraction using manual agitation and Soxtec, hormone assays (EIA/ELISA) and linearity/accuracy tests
- Managed laboratory and undergraduate students involved with earplug research, lead on data management.
- Four projects: population dynamics of baleen whales by estimating pregnancy events in their earplugs, consistency of hormone deposition between right and left earplugs from the same individual, consistency in hormone deposition in three different biological matrices in the same baleen whale, three biomarkers of stress in baleen whales using their earplugs.

**Duke University**

Research Assistant, Graduate Fellow

Durham, NC

2010 – 2012

*Principal Investigator:* Dr. Andy Read

- Used TrackPlot to research body orientation, swim speeds, and fluking rates of whales.
- Analyzed DTAG data to quantify reactions to biopsy attempts using dive length: surface interval ratio, short- and long-term behavioral changes, fluking rate/speed, and group vocalization rate.
- Further evaluated DTAG data to investigate the change in body orientation of short-finned pilot whales as they pursue prey, how this changes over day & night, and shallow dives & deep dives.
- Collaborated with researchers at the Duke University Marine Laboratory and other institutions to write manuscripts for publication.

**Whale Center of New England**

Post-graduate Research Fellow

Gloucester, MA

2010

**Alaska Whale Foundation**

Undergraduate Research Fellow

Petersburg, AK

2007 – 2008

## Outreach

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**STEMculture Podcast**

Co-founder

November 2018 – May 2020

**Mission:** We want to provide a platform to improve graduate school and STEM culture by demystifying the culture and highlighting stories of perseverance and persistence in STEM. We aim to reach this goal by using inclusive collaborations.

**Objective:** To evaluate the effectiveness of individual episodes to raise awareness and promote retention of culturally, linguistically, and economically diverse people in STEM.

**Other duties:** Website creator and social media manager

**Series:** Season 1: Culture (Origins, Grad Interactions, Navigating Bureaucracy 101), Work AND Life AND Balance (Work, Life, Balance), How to Publish (Writing in Science, Submit Your Sh\*t, Reviews, Reviewers, and Rejections), three inSTEM episodes: Disabilities in STEM, Family in STEM, and Diversity & Inclusion in STEM. Season 2: Back to School (The Path to STEM: High School to Grad School, Applying for Grad School (Part 1 and 2), and On the Shoulders of PIs), and "Replicates" (Culture Replicate Part 1 and 2), and First Generation in STEM.

**Total episodes:** 18

**Website:** [www.stemculturepodcast.com](http://www.stemculturepodcast.com)

**STEM Advocacy Institute**

Fellow

February 2019 – February 2020

I received funding to conduct science outreach with the primary purpose of addressing issues of access in science.

**Project:** "Science in a Box" - I created a questionnaire to assess the effectiveness of a science activity focused around interactive items in a box as compared to lecture alone. The science activity focused on getting the students (8-10<sup>th</sup> grade) to pitch their idea for research. The students gained experience generating an idea using a certain method, presenting that idea to their peers, and finally voting on who would receive "funding."

**Website:** <https://www.stemadvocacy.org/staff/dani-crain/>

**Skype a Scientist**

Scientist

May 2019 – December 2019

I video call into classrooms across North America to give a brief introduction to the science I do, and then answer questions of K-12 students.

**Video calls:** Mr. Corey Fisher's 8<sup>th</sup> grade class in Saskatoon, SK, Canada on 29 May, 2019, Ms. Madeleine Sherman's 6-8<sup>th</sup> grade classes in Honolulu, HI on 15 July, 2019, Mr. Doug Ribitzki's 6<sup>th</sup> grade special education class in Mahwah, NJ on 24 September, 2019, Ms. Sue Kob's 4<sup>th</sup> grade class in Elizabethtown, PA on 26 September, 2019, Ms. Stephanie Gilbert's 4<sup>th</sup> grade class in Midlothian, VA on 8 October, 2019, Ms. Christine Rapa-Perri's 7<sup>th</sup> grade class in Mississauga, Ontario Canada on 22 October, 2019, and Ms. Melissa Henderson's 3<sup>rd</sup> grade class in Luka, MS on 24 October, 2019.

**Present Your PhD**

Waco, TX

Co-founder and Director of Presenters

May 2017 – May 2019

**Objective:** This program is designed to help graduate students share their research with the community: not only kindergarten through high school but also to adults and senior citizens via libraries, community groups, and museums.

**Duties:** As Director of Presenters I met one-on-one with prospective graduate student presenters and provided them with feedback on their presentation, helped them come up with activities, and encouraged their creativity.

**School presentations:** October 2 & October 17 2017 at River Valley Intermediate, February 23 2018 at Texas Bioscience Institute. 2018 September 7, 12, 13, 18 at Castleman Creek, Woodway, Speegle-ville, and Hewitt Elementaries, respectively. 18 October 2018 at the Mayborn Museum Teen Science Cafe. 25 January 2019 at the Mayborn Museum "Meet the Scientist" event. 7 March 2019 at Harmony School of Innovation, 8 April 2019 Woodgate Intermediate.

**Total hours:** 300

**Website:** <http://blogs.baylor.edu/presentyourphd/>

**Teaching Experience****Baylor University**

Waco, TX

Teacher of Record

August 2015 – Present (October 2020)

- Natural Worlds I, non-majors science lab course, taught human sexuality section and hormone lab
- Comparative Vertebrate Physiology lab for 2 semesters: upper division course with research paper requirement.
- Anatomy & Physiology lab for 9 semesters: teaching future nurses anatomical directions, tissues, skeleton, articulations, muscles, and nervous system.
- Anatomy & Physiology lab for 1 semester: teaching future nurses metabolism, endocrine, cardiovascular system, lymphatic system, respiratory system, digestive system, urinary system, reproductive system, gametogenesis.
- Modern Concepts in Biology lab for 2 semesters.
- Have acted as a substitute for two upper-division undergraduate courses: Chordate Anatomy and Comparative Vertebrate Physiology, and lower-division Modern Concepts of Bioscience.

**California State University, Sacramento**

Sacramento, CA

Adjunct Professor

Spring 2015

- Human Reproductive Physiology (BIO 104): An elective course for biology majors.

**Cosumnes River College**

Elk Grove, CA

Adjunct Professor

September 2014 – May 2015

- Introduction to Anatomy & Physiology (BIOL 100): For students seeking a certificate in Allied Health.
- The Foundations of Biology (BIOL 300): A class for non-majors that satisfies a general education requirement which is transferable to the four year colleges of the UC and CSU systems.

**Los Rios Community College District Faculty Diversity Internship Program**

Sacramento, CA

Adjunct Professor

Fall 2014

- Invited participant of this program as an adjunct professor.
- Invited to speak and give perspective on teaching as a new adjunct professor within the Los Rios Community College District.

**Duke University Marine Laboratory**

Beaufort, NC

Lecturer

2011 – 2012

- Invited lecturer at Hampton University, VA. 23 April 2012.
- Invited lecturer at East Carolina State University, NC. 11 Sept 2011.

## Invited Presentations

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Baylor University Biology Department Invited Seminar Speaker, 16 February 2018. "Waxing nostalgic: 100+ years of pregnancies to explore population dynamics of whales."

Women in Science and Engineering (WISE) Graduate Student Speaker, 26 September 2017. "Waxing Nostalgic: 100 years of pregnant whales using earplugs." Nominated in recognition for excellence in research and work for the advancement of women in science and engineering.

## Professional Presentations

*Presentations of students I mentored\**

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The 61st Annual Conference for the Society of Comparative and Integrative Biology - Virtual, 3 January - 28 February 2021. Oral presentation. "Using claws of ice seals to analyze life history and diet of female bearded and ringed seals in the Bering and Chukchi seas, Alaska, from 1953-1968 and 1998-2014." **Crain, D.**, Polasek, L., Karpovich, S., Quakenbush, L.

Baylor Undergraduate Research and Scholarly Achievement (URSA) Scholar's Week. 2020, 8 April 2020. Virtual poster presentation. "Steroid hormones in three baleen plates from the same individual." Otulana, B.L.\*, Guinn, M.L.\*, **Crain, D.**, Mansouri, F., Patterson, J.\*, Sabin, R., Usenko, S., Trumble, S.J. Outstanding Poster Presentation Award.

Baylor University 3 Minute Thesis (3MT), 2 April 2020. Oral presentation. "Baleen whale pregnancies from their layered earwax." **Crain, D.**, Usenko, S., Mansouri, F., Winfield, Z.C., Zerbini, A., Gabriele, C.M., Sabin, R., Potter, C., Trumble, S.J.

The 1st Annual Twitter Conference for Baylor University Graduate School, 20 February 2020. Twitter presentation. "A different kind of wax museum: Forecasting population trajectories of baleen whales using reproductive parameters from earplugs." **Crain, D.**, Usenko, S., Mansouri, F., Winfield, Z.C., Zerbini, A., Gabriele, C.M., Sabin, R., Potter, C., Trumble, S.J.

The 60th Annual Conference for the Society of Comparative and Integrative Biology - Austin, Texas, 5 January 2020. Oral presentation. "A different kind of wax museum: Forecasting population trajectories of baleen whales using reproductive parameters from earplugs." **Crain, D.**, Usenko, S., Mansouri, F., Winfield, Z.C., Zerbini, A., Gabriele, C.M., Sabin, R., Potter, C., Trumble, S.J.

World Marine Mammal Conference - Barcelona, Spain, 9 December 2019. Speed talk. "The Audience Favourite" Award. "Forecasting population trajectories of baleen whales using reproductive parameters from earplugs." **Crain, D.**, Usenko, S., Mansouri, F., Winfield, Z.C., Zerbini, A., Gabriele, C.M., Sabin, R., Potter, C., Trumble, S.J.

Student Conference for Conservation Science - New York, 24 October 2018. Speed talk. "Waxing Nostalgic: 100+ years of pregnancies using whale earwax." **Crain, D.**, Usenko, S., Mansouri, F., Winfield, Z.C., Zerbini, A., Gabriele, C.M., Trumble, S.J.

Women in the Academy 2018 Conference, 7 April 2018. Oral presentation. "Present Your PhD: Tips and Tricks for lecturing K-12 students." **Crain, D.**, Choudhury, A., Reisenauer, K.

Baylor University Biology Department Seminar Speaker, 11 September 2017. "Waxing Nostalgic: 100 years of pregnant whales using earplugs." **Crain, D.**, Mansouri, F., Winfield, Z.C., Usenko, S., Trumble, S.J.

The 22<sup>nd</sup> Biennial Conference on the Biology of Marine Mammals, Halifax, Nova Scotia, Canada. October 2017. Workshop: "Measuring hormones in marine mammals: Current methods, alternative sample matrices, and future directions." Oral presentation. "Waxing On: Comparison of steroid hormones in earplugs, baleen, and blubber." **Crain, D.**, Usenko, S., Trumble, S.J.

The 22<sup>nd</sup> Biennial Conference on the Biology of Marine Mammals, Halifax, Nova Scotia, Canada. October 2017. Oral presentation. "Waxing Nostalgic: 100 Years of Pregnant Whales." **Crain, D.**, Mansouri, F., Winfield, Z.C., Usenko, S., Trumble, S.J.

SSRF Presentation. August 2017. Poster presentation. "Comparison of cortisol concentrations in the right and left earplugs of an unknown whale species." Thomas, A.\*, **Crain, D.**, Usenko, S., Trumble, S.J.

Baylor University Biology Department Seminar Speaker, 3 February 2017. "Reconstructing possible pregnancy intervals using progesterone values from baleen whale earplugs." **Crain, D.**, Mansouri, F., Winfield, Z.C., Usenko, S., Trumble, S.J.

The 57<sup>th</sup> Annual Conference for the Society of Integrative and Comparative Biology, New Orleans, LA. January 2017. "Determining pregnancy occurrences using whale earplugs." **Crain, D.**, Mansouri, F., Winfield, Z.C., Usenko, S., Trumble, S.J.

The 20<sup>th</sup> Biennial Conference on the Biology of Marine Mammals, Dunedin, New Zealand. December 2013. Poster. "A quantitative analysis of the response of short-finned pilot whales, *Globicephala macrorhynchus*, to biopsy sampling." **Crain, D.**, Friedlaender, A. S., Johnston, D. W., Nowacek, D. P., Roberts, B.L., Urian, K. W., Waples, D. M., Read, A. J.

Masters Project Symposium, Durham & Beaufort, NC (April & May 2012). Oral presentation. "Quantitative analysis of short-finned pilot whale reactions to biopsy attempts." **Crain, D.**, Friedlaender, A. S., Johnston, D. W., Nowacek, D. P., Roberts, B.L., Urian, K. W., Waples, D. M., Read, A. J.

Duke University Marine Lab Graduate Student Mini-Symposium. October 2011. Oral presentation. "Body orientation during foraging dives of short finned pilot whales off Cape Hatteras, NC." **Crain, D.**, Friedlaender, A. S., Johnston, D. W., Nowacek, D. P., Roberts, B.L., Urian, K. W., Waples, D. M., Read, A. J.

The 19<sup>th</sup> Biennial Conference on the Biology of Marine Mammals, Tampa, FL. November 2011. Poster. "Body orientation of short finned pilot whales during foraging bouts off Cape Hatteras, NC, USA." **Crain, D.**, Ebert, E., Friedlaender, A., Johnston, D., Read, A., Roberts, B., Urian, K., Waples, D., Nowacek, D.

## Mentoring Experience

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Makayla Guinn, Baylor University Undergraduate Lab Member	2019 – 2020
Hired for Cascadia Research Collective Internship for U.S. West Coast Research	
Bisi Otulana, Baylor University Undergraduate Lab Member	2019 – 2020



Accepted to New York University Graduate School of Arts and Science Biology Masters Program	
Jacob Patterson, UC San Diego Postgraduate Volunteer	2019
Accepted for a Ph.D. at Baylor University	
Amanda Thomas, Baylor Summer Science Research (SSRF)	2017 – 2018
Co-authored peer-reviewed publication with me.	
Ashley Joos, Baylor University Undergraduate Lab Member	2017 – 2018
Accepted to Rosenstiel School for Master of Professional Science	
Vivian Young, Baylor Transdisciplinary Research Undergraduate Experience (B-TRUE)	2017

## Professional Society Memberships

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American Association for the Advancement of Science, Member	2019 – 2020
International Society of Wildlife Endocrinology, Member	2019 – 2020
Society of Marine Mammalogy, Member	2005 – 2020
Society of Integrative and Comparative Biology, Member	2016 – 2017, 2019 – 2020
Society of Conservation Biology, Member	2010 – 2012

## Academic and Community Service

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### Baylor University Invited Presentations

Baylor University Graduate Writing Center Invited Panel, 22 October 2019. "The Art & Science of Writing" with Dr. Kevin Dougherty and Dr. Candi Cann.

Baylor University Graduate School workshop Invited Speaker, 1 October 2019. "Cultivating Your Scientific Identity" with Brooke Morris, Grace Pruett, and Tyler Prochnow.

Baylor University Cherry Award Summit on Great Teaching Invited Speaker, 24 April 2019. "How to Be a Great Graduate Student Instructor" with Kristina Amrani.

Baylor University Women in Science and Engineering Invited Faculty Meeting Speaker, 16 April 2019. "Science Outreach with #1000STEMWomen"

Baylor University Psychology & Neuroscience Invited Seminar Speaker, 24 August 2018. "Present Your PhD"

### Baylor University Cellular/Ecology & Evolution Graduate Student Society (CEGSS)

Co-founder and year 1 Founding Leadership as Treasurer January 2018 – May 2019

**Objective:** Increase camaraderie among Biology Department graduate students at Baylor University.

**Other duties:** Treasurer, with responsibilities to communicate with the Biology Department

**Total hours:** 40

**Website:** <http://blogs.baylor.edu/cegss/>

### Women in Science and Engineering (WISE) at Baylor University

Co-organizer May 2017 – May 2019

**Objective:** WISE strives to support women faculty, postdocs, and graduate students in STEM, increase the number of women and minorities in STEM and mentor new faculty.

**Co-organizer of the Graduate Student Seminar Speaker Series:** graduate student women under-represented minorities are nominated by faculty and peers to present their research to a broad audience.

**Other duties:** Website creator

**Total hours:** 70

**Website:** <https://baylorwise.netlify.com/>



### **Women in the Academy (WiTA)**

WiTA Mentorship Program, Fundraising & Promotions Committee

August 2017 – May 2018

**Objective 1:** Learn more about the challenges women in academia face and how to promote success for women in the academy in the WiTA mentorship program.

**Objective 2:** Acted as a member of the Fundraising & Promotions Committee for the 2018 Women in the Academy conference.

**Total hours:** 40

**Website:** [Women in the Academy at Baylor University](#)

### **Other University Service**

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| - Mayborn Museum Volunteer                                     | 2017 – 2020 |
| - Baylor University Biology Department Seminar Speaker Curator | Fall 2018   |
| - TriBeta Biology Honors Society Graduate Student Panel        | 2016 – 2018 |
| - Laboratory meeting organizer, Duke University                | 2011 – 2012 |
| - Founder of blood drives at Duke University Marine Lab        | 2012        |

References available upon request

Last updated: November 5, 2020