

# Jennifer Terry

PO Box 599, State University, AR, 72467  
jennifer.terry@smail.astate.edu

## Education

---

### **Bucknell University, Lewisburg, PA**

Bachelor of Arts, Animal Behavior, minor in Environmental Studies  
Advisor: Dr. Mizuki Takahashi

May 2016

GPA: 3.4

Awards and Honors: Dean's List: Fall 2014, Spring 2015, Fall 2015, Spring 2016, Dean's Scholarship,  
2016 Sorority President of the Year

### **Arkansas State University, Jonesboro, AR**

Master of Science, Biological Sciences

Advisor: Dr. Lori Neuman-Lee

Thesis: Shifts in the Acute Stress Response in Red-eared sliders (*Trachemys scripta*)  
During the Activity Season

August 2021

GPA: 3.9

Doctor of Philosophy, Environmental Sciences

Advisors: Dr. Lori Neuman-Lee and Dr. Virginie Rolland

PhD Dissertation: From Individuals to Population: Integrating Physiology and Population Dynamics of  
Freshwater Turtles.

Enrolled Fall 2021

GPA: 4.0

Awards: Students United in Preserving, Exploring, and Researching Biodiversity (SUPERB)  
scholarship, National Science Foundation (NSF) Research Traineeship: Understanding  
Invasion and Disease Ecology and Evolution through Computational Education (UandI-  
DEECODE)

Certifications: Sensory Inclusion Certificate (2022/3) - KultureCity

## Publications

---

Bauer, C.M., Carr, J.A., Gabor, C.R., Grindstaff, J.L., Guynes, C., Heppner, J.J., Ledon-Rettig, C.C.,  
Lopes, P.C., Lynn, S.E., Madelaire, C.B., Neuman-Lee, L.A., Palacios, M.G., Soto, P.L., **Terry, J.**  
(2023). COVID-19 as a chronic stressor and the importance of individual identity: A data-driven  
look at academic productivity during the pandemic. *General and Comparative Endocrinology*. **In  
Review.**

Field, E.K., **Terry, J.**, Hartzheim, A.M., Krajcir, K., Mullin, S.J., Neuman-Lee, L.A. (2023).  
Investigating relationships among stress, reproduction, and immunity in three species of watersnake.  
*General and Comparative Endocrinology* 343, 114350.  
<https://doi.org/10.1016/j.ygcen.2023.114350>.

Steen, D.A., Carr, J.L., **Terry, J.**, Ligon, D., Enge, K.M., Krueger, C.J., Thomas, T.M., Grasher, G.,  
Johnston, G.R., Gordon, M., Zwicky, G. & Stevenson, D. (2023). Terrestrial Movements of  
Macrochelys (Testudines: Chelydridae). *Southeastern Naturalist* 22, 378–387.

- Terry, J.L.**, Field, E.K. & Neuman-Lee, L.A. (2023). Assessment of glucocorticoids, sex steroids, and innate immunity in wild red-eared sliders (*Trachemys scripta*). *General and Comparative Endocrinology* 339, 114288. <https://doi.org/10.1016/j.ygcen.2023.114288>.
- Hartzheim, A.M., **Terry, J.L.**, Field, E.K., Haydt, N.T., Poo, S., & Neuman-Lee, L.N. (2022). Immune and stress physiology of two captive-housed tortoise species. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology* 339, 220–233. <https://doi.org/10.1002/jez.2674>.
- Field, Emily K., **Terry, Jennifer**, Hartzheim, Alyssa, Dawson, Grant, Haydt, Natalie, Neuman-Lee, Lorin A. Reptilian Innate Immunology: What do we know and where are we going? (2022). *Integrative and Comparative Biology* 62, 1557–1571. <https://doi.org/10.1093/icb/icac116>.
- J. Terry**, Y. Taguchi, J. Dixon, K. Kuwabara, & M. K. Takahashi. (2018). Preoviposition paternal care in a fully aquatic giant salamander: nest cleaning by a den master. *Journal of Zoology* **307**, 36–42. <https://doi.org/10.1111/jzo.12615>.

## Presentations & Posters

---

- Terry, J., Vanoven, A., Janney, C., Rolland, V., Poo, S., Neuman-Lee, L.A. 2023. “Who’s at the zoo?: A study of accessioned freshwater turtles at the Memphis Zoo.” Invited presentation for ZooMu Symposium at Joint Meeting of Ichthyologists and Herpetologists, July 2023.
- Hartzheim, A, Terry, J., Poo, S., Neuman-Lee, L.A. 2023. “What to do at the Zoo: The use of captive populations in physiological research.” Invited presentation for ZooMu Symposium at Joint Meeting of Ichthyologists and Herpetologists, July 2023.
- Terry, J., Letner, E., Vanoven, A., & Neuman-Lee, L.A. 2023. “Innate Immune Component Tradeoffs in a Wild Freshwater Turtle.” Contributed talk for Society of Comparative and Integrative Biology, 2023, at Austin, Texas. Jan 5 2023.
- Terry, J., Field, E., Neuman-Lee, L.A. 2022. “Glucocorticoids, Sex Steroids, and Innate Immunity, Oh My!: Examining Reproductive Investment and Physiological Tradeoffs in a Freshwater Turtle.” Contributed talk for Joint Meeting of Ichthyologists and Herpetologists, July 2022.
- Terry, J., Fiedor, T., Veach, M.A., & Neuman-Lee, L.A. 2022. “Assessment of Tradeoffs in Free-living Red-eared Sliders (*Trachemys scripta*) Throughout the Activity Season” Contributed talk for Society of Comparative and Integrative Biology, 2022. Virtual Presentation due to CoVid-19.
- Kevin J. Krajcir, Emily R. Donahue, Jennifer L. Terry, Lorin A. Neuman-Lee, & Than J. Boves. 2022. “Comparative Physiology of Two Breeding Cardinalid Species in NE Arkansas.” Contributed poster for Society of Comparative and Integrative Biology, 2022. Virtual Presentation due to CoVid-19.
- Terry, J., Fiedor, T., Veach, M.A., Vickrey, C., & Neuman-Lee, L.A. 2021. “Shifts in the Acute Stress Response in Female Red-eared Sliders (*Trachemys scripta*).” Virtual Presentation at Arkansas Audubon Society. May 8 2021.
- Veach, M.V., Terry, J., & Neuman-Lee, L.A. 2021. Relationship between body mass, follicular size, and egg production in red-eared sliders (*Trachemys scripta*).” Virtual Poster Symposium at Create@Astate, Jonesboro, AR.
- Terry, J., Fiedor, T., Veach, M.A., Vickrey, C., & Neuman-Lee, L.A. 2021. “Shifts in the Acute Stress Response in Female Red-eared Sliders (*Trachemys scripta*).” Virtual Poster Symposium at Create@Astate, Jonesboro, AR.
- Krajcir, K, Donahue, E.R., Terry, J.L., Neuman-Lee, L.A., Boves, T.J. 2021. “Comparative Physiology of Two Cardinalid Species in a Heavily Modified Habitat.” Poster Symposium for AFO-WSO Conference, 2021.

- Hartzheim, A, Terry, J., Neuman-Lee, L.A. 2021. "Validation and Implications of Microbiocidal Killing Assays for Species of Tortoise Under Zoo Conditions." Virtual Poster Symposium for Louisiana State University Shreveport Regional Student Scholars Forum, March 12 2021.
- Terry, J., Fiedor, T., Veach, M.A., Vickrey, C., & Neuman-Lee, L. A. 2020. "Ecophysiological tradeoffs in female red-eared sliders (*Trachemys scripta*)." Poster Symposium for Society of Comparative and Integrative Biology, 2021. Virtual Presentation due to CoVid-19.
- Terry, J., and L. Neuman-Lee. 2020. "Endocrine & Immune Patterns in Freshwater Turtles at Bearitage Farms, AR During the Active Season." Poster Symposium at Create@Astate, Jonesboro, AR, April 20 2020. Virtual Presentation due to CoVid-19.
- Terry, J., Fiedor, T., Veach, M.A., Vickrey, C. 2020. Endocrine and Immune Tradeoffs in Native Red-eared Sliders (*Trachemys scripta*). Accepted Abstract for Joint Meeting of Ichthyologists and Herpetologists, July 2020. Cancelled due to CoVid-19.
- Terry, J., T. Bulice, and L. Neuman-Lee. 2019. "Monitoring Illinois Chorus Frog (*Pseudocris illinoensis*) in Northeast Arkansas." Poster Symposium at Joint Meeting of Ichthyologists and Herpetologists, Snowbird, UT, 27 July 2019.
- Terry, J. 2017. "Reflecting on the 2017 Diamondback Terrapin Road Season: Observations, Experiences, and Goals for the Future." GSTC AmeriCorps Member Presentations. Georgia Sea Turtle Center, Jekyll Island, GA, August 15 2017.
- Dixon, J., and J. Terry. 2015. "Examining Nest Cleaning Behavior in the Japanese Giant Salamander (*Andrias japonicas*)." Bucknell University Kalman Symposium. Bucknell University, Lewisburg, PA, April 2 2016.
- Terry, J. 2015. "Examining Nest Site Fidelity and Human Disturbance Response in Nesting Diamondback Terrapins (*Malaclemys terrapin*) on the Wetlands Institute Property in Stone Harbor, NJ." The Wetlands Institute Intern Symposium, Stone Harbor, NJ, 3 August 2015.

## Grants

---

Memphis Zoo Conservation Action Network Grant 2022 (Co-PI), \$3192  
SSAR Grant-in-Herpetology for 2019, Laboratory Research, \$500  
Arkansas Audubon Society Trust, Fall 2019, \$600  
A-State Student Research and Creativity Grant Competition, Dec 2019, \$500

## Mentorship Experience\*

---

### *Arkansas State University*

Taylor Fiedor, Undergraduate technician for field and lab work  
Christian Vickrey, Undergraduate technician for field and lab work  
Mary Ambrette Veach, Undergraduate technician for field and lab work  
Alec Bowden, Undergraduate technician for field and lab work  
Alexia Vanoven, Undergraduate technician for field work  
Ashley Carter, Undergraduate technician for lab work  
Emily Letner, Undergraduate technician for field work  
Sara Hernandez Madrigal, Undergraduate technician for field work  
Ethan Saffle, Undergraduate Honors student  
Ella Curlin, High School Student Interested in Outreach and SciComm

\*Long-term mentoring relationships. Does not include short-term field excursions, etc.

## **Invited Seminar** (\*Presenter)

---

Takahashi, M.\*, **J. Terry**, and J. Dixon. 2016. Nesting behaviors of parental males of the Japanese giant salamander. 3rd Annual Japanese Giant Salamander Symposium. Asa Zoological Park, Hiroshima, Japan.

## **Relevant Experience**

---

### **Arkansas State University, Jonesboro, AR**

Since Fall 2018

#### *Neuman-Lee Lab Graduate Student*

- Lead field crew by coordinating logistics, including ordering, travel requests, data management.
- Train graduate students in field and lab techniques, including but not limited to: animal handling, blood collection, marking, data management, general lab techniques, ultrasound, blood smears, bacterial killing assays, radioimmunoassays, hemagglutination assays.
- Manage Neuman-Lee website (2019-2021).
- Create and coordinate outreach activities.

#### *Graduate Assistant, Biology Department*

##### *Illinois Chorus Frog Project*

2019-2021

- Conduct call surveys using criteria from North American Amphibian Monitoring Project.
- Mark individuals with visual implant elastomer (VIE).

#### *Teaching Assistant, Biology Department*

- Genetics Laboratory (2 semesters)
- Comparative Physiology Laboratory (2 semesters)
- Microbiology Laboratory (2 semesters)
- Human Structure and Function Laboratory I (1 semester)
- Biological Sciences Laboratory for Non-Majors (1 semester)
- Human Anatomy and Physiology Laboratory I (2 semesters)
- Biology of the Cell Laboratory (1 semester)

### **Georgia Sea Turtle Center, Jekyll Island, GA**

#### *Diamondback Terrapin Husbandry AmeriCorps Member*

2016-2018

- Completed roughly 4,000 hours of service over two service terms.
- Created extensive manual for position.
- Managed diamondback terrapin conservation efforts.
- Monitored Jekyll Island Causeway for nesting diamondback terrapins.
- Supported staff through preparing and administering medications/samples, carrying out treatments under supervision, handling animals, ensuring general hospital upkeep, maintained aquatic life support systems and carried out daily husbandry.
- Engaged members of the public while on road surveys, onsite, and through outreach events.

### **Bucknell University, Lewisburg, PA**

*Undergraduate Research Assistant with Dr. M. Takahashi*

2015- 2016

- Led project involving the analysis of videos for Japanese giant salamander behavior.
- Isolated DNA from salamander samples (eggs and tail clips) for sperm competition research.
- Assisted in parental care study involving eastern red-spotted newts through measuring and identifying individuals and collecting eggs, *ex situ*.
- Autoclaved lab materials and maintained an organized lab space.

### **The Wetlands Institute, Stone Harbor, NJ**

*Coastal Conservation Research Intern*

Summer 2015

- Conducted an independent research project examining nest site fidelity over an 11-year period and the response to human presence on nesting behavior in diamondback terrapins.
- Supported long term diamondback terrapin and horseshoe crab conservation efforts through mark-recapture, PIT-tagging, surveys, road patrols, necropsies, ReTurn the Favor, and data entry.
- Streamlined terrapin data collection through the categorization of the property.
- Cleaned terrapin eggs retrieved during necropsies and maintained nest boxes.

### **Clyde Peeling's Reptiland, Allenwood, PA**

*Animal Care Intern*

Summer 2014

- Worked independently to support keeper staff with feeding reptiles, amphibians, and emus, cleaning enclosures, record keeping, and water changes.
- Examined amphibians for physical and behavioral abnormalities.
- Supervised butterfly-human interactions in interactive exhibit.

### **Philadelphia Zoo, Philadelphia, PA**

*Animal Care Intern*

Summer 2013

- Supported KidZooU keeper staff with daily husbandry.
- Created and provided enrichment for animal collection.
- Ensured safe interactions between the public and animals (sheep and goats) in barnyard exhibit.
- Handled and fed both domestic and exotic animals including goats, miniature horses, sheep, chickens, chinchillas, rodents, fish, and porcupines.

*Junior Ambassador*

2011-2012

- Educated the public about zoo collection and conservation effort using bio-artifacts, interactive activities, and interpretation of animal behavior at exhibits.
- Provided support to animal care staff through observations of animals of concern.

## **Service to Profession**

---

*Copy-editing volunteer for Herpetological Review, Society for the Study of Amphibians and Reptiles*  
*Reviewer for Journal of Experimental Zoology, General and Comparative Endocrinology, Journal of Herpetology*

## **Service to University**

---

*College of Sciences and Mathematics Graduate Student Representative, University Academic Integrity Committee, Arkansas State University*

*Graduate Student Representative, Diversity Committee, Biology Department, Arkansas State University*

*Student Representative, Search Committee, Fraternity and Sorority Affairs, Bucknell University*  
*Round Table Facilitator, Diversity Summit, Fraternity and Sorority Affairs, Bucknell University*

## **SciComm and Outreach Experience**

---

**Herpetologists' League, Social Media Manager (2019,2020)**

**Girls in STEM, Presenter and Activity Creator (2019, 2021, 2023)**

**New York Institute of Osteopathic Medicine SHARE Program, Presenter (2021)**

**Arkansas State University Museum FrankenSTEM, presenter and activity creator (October 2022)**

**Arkansas State University Museum TinkerFaire, presenter and activity creator (May 2023)**

**GaDNR Coastfest, Tabling (2017, 2018)**

Freshwater Turtle Research at Memphis Zoo. Fall 2022.

<https://www.memphiszoo.org/zoo-news/posts/freshwater-turtle-research-at-memphis-zoo>

(Author). Newly Wrapped Vans an Integral Part of 2017 Terrapin Patrol. Fall 2017.

<https://www.jekyllislandfoundation.org/about/for-the-record/newly-wrapped-vans/>

Georgia volunteers work to protect terrapins from causeway deaths. News4Jax. 12 April 2018.

<https://www.news4jax.com/weather/jekyll-island-authority-america-volunteers-work-to-protect-terrapins-from-causeway-deaths>

Tappin' brakes for terps as season starts. The Brunswick News. 10 April 2018.

[https://thebrunswicknews.com/news/local\\_news/tappin-brakes-for-terps-as-season-starts/article\\_e89c9b25-c316-58e6-ab38-6e0eebd519c4.html](https://thebrunswicknews.com/news/local_news/tappin-brakes-for-terps-as-season-starts/article_e89c9b25-c316-58e6-ab38-6e0eebd519c4.html)

Episode 104: The Golden Isles Excursion. "The Excursion with David Zielski". October 2017.

[https://www.youtube.com/watch?time\\_continue=3&v=8JGGsdTKzxc](https://www.youtube.com/watch?time_continue=3&v=8JGGsdTKzxc)

Outside the Shell: Jennifer Terry. Paisley Magazine. April 2017. Print.