

# JENNIFER Y. LAMB, PH.D.

## ASSOCIATE PROFESSOR OF BIOLOGY

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### CURRICULUM VITAE

February 2025

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#### EDUCATION AND PROFESSIONAL POSITIONS:

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2018 – Present	Associate Professor St. Cloud State University, Dept. of Biology and Chemistry St. Cloud, Minnesota, 56301
2017 – 2018	Instructor of Biology Southeastern Louisiana University, Dept. of Biological Sciences Hammond, Louisiana, 70402
2017	Adjunct Instructor Pearl River Community College, Forrest County Dept. of Sci., Math., and Business Hattiesburg, Mississippi, 39401
2016 – 2017	Postdoctoral Fellow The University of Southern Mississippi, Hattiesburg, Mississippi, 39406

Advisor: Brian R. Kreiser and Carl P. Qualls  
Title: Population genetics of Gulf Coast Waterdogs.

- 2016** Ph.D. in Biology  
The University of Southern Mississippi, Hattiesburg, Mississippi, 39406  
Advisors: Carl P. Qualls and Brian R. Kreiser  
Title: Ecology and Genetics of Lungless Salamanders (Family Plethodontidae) in the Gulf Coastal Plain.
- 2010** B.S. in Environmental Biology, minor in Spanish  
The University of Southern Mississippi, Hattiesburg, Mississippi, 39406

#### **RESEARCH INTERESTS:**

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Herpetology, Conservation, and Natural History

#### **CURRENT PROJECTS AND COLLABORATIONS:**

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**Biofluorescence, color, and behavior in amphibians and reptiles.** Collaborator(s): Matthew P. Davis (SCSU), Grover J. Brown (Jacksonville State University), Lynne Beaty (Penn State Behrend).

**Occurrence and conservation of amphibians and reptiles in Minnesota.** Collaborator(s): Andrew Herberg, Spencer Rettler, and Anton Benson (MN Dept. of Natural Resources).

**Amphibian disease and Course-based Undergraduate Research Experiences.**  
Collaborator(s): Amy Kinsley (U. of MN St. Paul), Dan Grear (USGS), Molly Bletz (Pennsylvania State University), Megan Winzeler (USGS). Project website:  
<https://maisrc.umn.edu/research/54>

#### **TEACHING EXPERIENCE:**

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**St. Cloud State University (SCSU).**

The Living World (BIOL 102)  
Organismal Diversity (BIOL 152)  
Careers in Biology (BIOL 222)  
Zoology (with Lab) (BIOL 308)  
Herpetology (with Lab) (BIOL 411/511)  
Comparative Animal Behavior (BIOL 441/541)  
Wildlife Populations (with Lab) (BIOL 442/542)  
Undergraduate Internship (BIOL 444)  
Undergraduate Research in Herpetology and Conservation (BIOL 451)  
Conservation and Mngmt. of Animals (with Lab) (BIOL 461/561)  
Research in Herpetology (BIOL 600)  
Graduate Student Special Topics: Communicating Science (BIOL 610)

Graduate Student Special Topics: Genomics: A toolkit (BIOL 610)  
Graduate Student Seminar: Urban Ecology and Evolution (BIOL 620)  
Graduate Student & Biology Dept. Seminar (BIOL 630)

**Southeastern Louisiana University (SLU).**

Introduction to Biological Principles II  
General Biology Laboratory II  
Herpetology (with Lab)

**Pearl River Community College, Forrest County Center.**

General Biology II

**Teaching Assistantships:**

University of Southern Mississippi (USM)  
Principles of Biological Sciences II  
Vertebrate Biology  
Lake Thoreau Environmental Center (LTEC) assistant  
Gulf Coast Research Lab, Ocean Springs, MS  
Coastal Herpetology

**NSF GK-12 Fellow.** Sumrall High School, Sumrall, MS

**PEER-REVIEWED PUBLICATIONS:**

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\*Co-authors include undergraduate and or graduate students

25. Lamb, J.Y., Cooper, H., Seymour, A., Davis, M.P., and Beaty, L. (In-press). Illuminating the early life of salamanders: exploring biofluorescence during development. *Ichthyology and Herpetology*.
24. Pyron, A.R., O'Connell, K.A., **Lamb, J.Y.**, and **Beamer, D.A.** 2022. A new, narrowly endemic species of swamp-dwelling dusky salamander (Plethodontidae: *Desmognathus*) from the Gulf Coastal Plain of Mississippi and Alabama. *Zootaxa* 5133(1): 053 – 082. DOI: 10.11646/zootaxa.5133.1.3
23. \*Bynum, J.N, \*Gallo, C.V., and **Lamb, J.Y.** 2021. *Desmognathus conanti* (Spotted Dusky Salamander): Larval Malformation. *Herpetological Review* 52(3): 598 – 599.
22. Wen, F., Ljustina, O., Vicknair, W., \*Perrera, B., and **Lamb, J.Y.** 2021. Reproductive phenology and the larval period of the Western Dwarf Salamander (*Eurycea paludicola*) in Southeastern Louisiana. *Southeastern Naturalist* 20(1): 37 – 50. DOI: 10.1656/058.020.0104
21. \*Seymour, A.M. and **Lamb, J.Y.** 2020. *Ambystoma tigrinum* (Eastern Tiger Salamander): Mortality by Leeches. *Herpetological Review* 51(2): 288 – 289.
20. **Lamb, J.Y.** and Davis, M.P. 2020. Salamanders and other amphibians are aglow with biofluorescence. *Scientific Reports* 10: 2821. DOI: 10.1038/s41598-020-59528-9
19. **Lamb, J.Y.** 2019. Skin sloughing and sperm cap loss during courtship in dusky

- salamanders (Genus *Desmognathus*). Southeastern Naturalist 18(3). DOI: 10.1656/058.018.0304
18. **Lamb, J.Y.** and \*Ljustina, O. 2018. *Nerodia fasciata confluens* (Broad-banded Watersnake): Diet. Herpetological Review 49(4): 757 – 758.
  17. Chandler, H.C., Stevenson, D.J., Stegenga, B.S., and **Lamb, J.Y.** 2018. Geographic distribution: Georgia, USA: *Desmognathus cf. auriculatus*. Herpetological Review 49(1):68.
  16. \*Brown, G.J. and **Lamb, J.Y.** Geographic distribution: Mississippi, USA: *Sternotherus minor peltifer*. 2017. Herpetological Review 48(4): 812.
  15. **Lamb, J.Y.**, Kreiser, B.R., Waddle, J.H., and Qualls, C.Q. 2017. Characterization of microsatellite loci for the Gulf Coast waterdog (*Necturus beyeri*) using paired-end Illumina shotgun sequencing and cross-amplification in other *Necturus*. Herpetological Review 48(4): 758 – 763.
  14. **Lamb, J.Y.** 2017. Sexual isolation between two sympatric *Desmognathus* in the Gulf Coastal Plain. Copeia 105(2): 261 – 268. DOI: 10.1643/CE-16-565
  13. Means, D.B., **Lamb, J.Y.**, and Bernardo, J. 2017. A new species of dusky salamander (Amphibia: Plethodontidae: *Desmognathus*) from the Eastern Gulf Coastal Plain and a redescription of *D. auriculatus*. Zootaxa 4263(3): 467 – 506. DOI: 10.11646/zootaxa.4263.3.3.
  12. **Lamb, J.Y.**, Waddle, J. H., and Qualls, C. Q. 2017. Estimating occurrence and detection probabilities for stream-breeding salamanders in the Gulf Coastal Plain. Journal of Herpetology 51(1): 102 – 108. DOI: 10.1670/16-050
  11. Brown, G.J. and **Lamb, J.Y.** 2016. Geographic distribution: Mississippi, USA: *Amphiuma pholeter*. Herpetological Review 47(2): 244.
  10. Brown, G.J., Pellicchia, C.M., Pellicchia, R.L., and **Lamb, J.Y.** 2016. Geographic distribution: Mississippi, USA: *Incilius nebulifer*. Herpetological Review 47(4): 623.
  9. Kreiser, B.R., Kreiser, E.Y., and **Lamb, J.Y.** 2016. *Anaxyrus terrestris* (Southern Toad): Forelimb malformation. Herpetological Review 47(1): 105 – 106.
  8. **Lamb, J.Y.**, Kreiser, B.R., and Qualls, C.P. 2015. Characterization of microsatellite loci for the spotted dusky salamander (*Desmognathus conanti*) using paired-end Illumina shotgun sequencing and cross-amplification in another species of *Desmognathus*. Herpetological Review 46(3): 343 – 347.
  7. **Lamb, J.Y.** and Chatfield, M.H. 2014. Geographic distribution: Mississippi, USA: *Eleutherodactylus planirostris*. Herpetological Review 45(3): 458.
  6. **Lamb, J.Y.**, Ennen, J.R., and Qualls C.P. 2013. Environmental characteristics of nest-sites selected by gopher tortoises (*Gopherus polyphemus*) in southern Mississippi. Chelonian Conservation and Biology 12(2): 227 – 234. DOI: 10.2744/CCB-1031.1
  5. **Lamb, J.Y.** 2013. Geographic distribution: Mississippi, USA: *Incilius nebulifer*. Herpetological Review 44(4): 621.
  4. **Lamb, J.Y.** and Qualls, C.P. 2013. *Eurycea cirrigera* (Southern Two-lined Salamander): Partial albino larva. Herpetological Review 44(3): 490.
  3. **Lamb, J.Y.** and Qualls, C.P. 2013. *Necturus beyeri* (Gulf Coast Waterdog): Leaf litter bag. Herpetological Review 44(3): 491.
  2. **Lamb, J.Y.** and Qualls, C.P. 2013. *Eurycea cirrigera* (Southern Two-Lined Salamander):

Ingested air bubbles. *Herpetological Review* 44(1):115-116.

1. Ennen, J.R., Lamb, J.Y., and Qualls, C.P. 2009. *Gopherus polyphemus* (Gopher Tortoise): Nesting. *Herpetological Review* 40:77-78.

**Submitted:**

Diaz et al. 2024. A tectonic model for the origin of cranioskeletal diversity across vertebrates. *Nature*.

**GRANTS AND CONTRACTS:**

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\*Co-authors include undergraduate and or graduate students

**Awarded:**

- SCSU Faculty Improvement Grant: Research. 2024. "Comparing survey methods for rare salamanders in Minnesota." \$10,000.
- Minnesota DNR WildHome. 2024 extension. Blanding's Turtle Surveys at Lake Maria State Park and Charles Lindbergh State Park. PI: Benson, A. (MN DNR). Partner: Lamb, J.Y. Additional \$4,845.
- SCSU Mid-Career Grant. 2024. "Biofluorescence in anuran larvae: prevalence and ecological significance." \$7,709.90.
- Minnesota Aquatic Invasive Species Research Center Grant. 2023. "Surveillance and control of Chytrid fungi in Minnesota amphibians." PI: Kinsley, A (UMN). Co-PIs: Lamb, J.Y., Grear, D. (USGS), Bletz, M. (PSU), Winzeler, M.(USGS). \$196,972.
- SCSU Miller Scholars Program. 2023. "Innovating the classroom for widespread engagement." PI: Davis, M.P. Co-PIs: Julius, M., McDonnell, A., Lamb, J.Y. \$8,000.
- Minnesota Herpetological Society. 2023. "It's in the water: Using eDNA assays to detect the elusive Four-toed salamander (*Hemidactylium scutatum*)." Co-PIs: Roberts, A.\* and Lamb, J.Y. \$1,153.36.
- Minnesota DNR Interagency Agreement. 2022. Using environmental DNA (eDNA) to survey for Four-toed Salamanders. PI: Lamb, J.Y. Partner: Herberg, A. (MN DNR) \$78,062.
- Minnesota DNR WildHome. 2022. Blanding's Turtle Surveys at Lake Maria State Park and Charles Lindbergh State Park. PI: Leigh, D. (MN DNR). Partner: Lamb, J.Y. \$22,000.
- SCSU Faculty Improvement Grant: Research. 2022. "Taking a closer look: sexual dimorphism, color, and pattern in amphibians." \$9,970.06.
- SCSU Early Career Grant. 2022. "Rare species detection with environmental DNA (eDNA)." \$6,855.00.
- Minnesota Herpetological Society. 2022. "From museum specimens to live toads: sexual dimorphism in the Family Bufonidae." Co-PIs: Fondren, A.D.\* and Lamb, J.Y. \$1,394.68.
- SCSU Roy and Barbara Saigo Endowment for Faculty and Staff Excellence Fund. 2022. "Sexual dimorphism in frogs and salamanders." \$500.
- Minnesota Herpetological Society. 2021. "Are you what you eat? Diet and coloration in Painted Turtles." Co-PIs: Richards, B.R.\* and Lamb, J.Y. \$1,164.00.
- Minnesota State Undergraduate Research Initiative. 2019 – 2020.
- "Survey techniques for frogs and toads and analysis of frog call data." \$500.

- “Perplexing polywogs: Using morphology and genetics to identify ranid tadpoles.” \$1,500.
- SCSU Early Career Grant. 2020. “Neon Newts and Biofluorescence in Salamanders.” \$7993.46.
- Minnesota Herpetological Society. 2020. “Biofluorescence and Sexual Dichromatism in Frogs.” Co-PIs: Seymour, A.\* and Lamb, J.Y. \$1,495.10.
- SCSU Roy and Barbara Saigo Endowment for Faculty and Staff Excellence Fund. 2019 – 2020. “Perplexing Polywogs: Using Morphology and Genetics to Identify Ranid Tadpoles (Family Ranidae).” \$440.33.
- SCSU Faculty Improvement Grant: Research. 2019 – 2020. “Population genetics of dusky salamanders (Family Plethodontidae, Genus *Desmognathus*) in the Gulf Coastal Plain.” \$9,026.
- SCSU Faculty Improvement Grant: Short-Term. 2018 – 2019. “Environmental DNA and Metabarcoding Workshop.” \$1,931.05.
- Florida Fish and Wildlife Conservation Commission. 2017 – 2019. “Population genetics of the Southern Dusky Salamander.” \$3,602.70.
- Cooperative agreement U.S. Geological Survey and USM. 2015 – 2017. “Population genetics of Gulf Coast Waterdogs.” \$55,000.
- National Science Foundation GK-12 Fellowship, USM. 2014 – 2015. \$30,000.
- National Science Foundation Graduate Research Fellowship. 2011. \$90,000.

**Submitted but not awarded:**

- National Science Foundation. 2021. “MRI Acquisition of a High-Resolution Micro-CT Scanner for Natural History Applications.” PI: S.Z. Gibson, Co-PIs: M.P. Davis, M.L. Julius, J.Y. Lamb. \$480,613.00.
- National Science Foundation. 2020. “MRI Acquisition of a High-Resolution Micro-CT Scanner for Natural History Applications.” PI: S.Z. Gibson, Co-PIs: M.P. Davis, M.L. Julius, J.Y. Lamb. \$480,613.00.
- National Science Foundation. 2019. “MRI Acquisition of a High-Resolution Micro-CT Scanner for Natural History Applications.” Proposal No. 1919721. PI: J.Y. Lamb, Co-PIs: M.P. Davis, S.Z. Gibson, M.L. Julius. \$978,123.00.
- 2019 NIGHTSEA/EMS Key Award for New Faculty. 2019. PI: J.Y. Lamb. \$760.

**OTHER SCHOLARLY WORKS AND CONTRIBUTIONS:**

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- Scientific Consultant for biofluorescence documentary, for ZED Production Company. 2023 – 2025. <https://www.zed.fr/en/catalog/life-in-fluo-natures-superpower>
- Scientific Consultant for a Netflix wildlife documentary series titled Our Living World (Episode 2). 2020 – 2024. <https://www.imdb.com/title/tt23181418/>
- Lamb, J.Y. Science Glows with Expanding Perspectives. St. John’s Outdoor University’s Sagatan Seasons. Summer 2021  
<https://www.csbsju.edu/documents/OutdoorU/Publications/SagatanSeasons/2021Summer.pdf>
- Lamb, J.Y., Belasen, A.M., Amburgey, S., Bletz, M., Brodman, B., Cantrell, A., Christman, M., DiRenzo, G., Hecht, K., Savant, N. (Eds.). 2021. Suggestions for Planning Online or Hybrid

- Meetings. Partners in Amphibian & Reptile Conservation (PARC), Version 1. Hagerstown, MD. 10pp.
- Belasen, A.M., Lamb, J.Y., Amburgey, S., Bletz, M., Brodman, B., Cantrell, A., Christman, M., DiRenzo, G., Hecht, K., Savant, N. (Eds.). 2021. Suggestions for Planning In-Person Meetings. Partners in Amphibian & Reptile Conservation (PARC), Version 1. Hagerstown, MD. 11pp.
- TedXStCloud. "The glowing creatures hidden in your backyard." December 2020.  
<https://www.youtube.com/watch?v=52VoVgKYhXU&t=1s>
- Lamb, J.Y. and Davis, M.P. "Fluorescing frogs and neon newts." Behind the Paper: Ecology & Evolution. NaturePortfolio. 27 February 2020.  
<https://natureecoevocommunity.nature.com/posts/60898-fluorescing-frogs-and-neon-newts>

## **STUDENT MENTORSHIP AND TRAINING:**

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### **Graduate students:**

**Serve or served as Graduate Advisor to** (all are students in the Dept. of Biology and Chemistry at SCSU):

**Sam Skinner.** 2024 – Present. M.S. Student.

**Kerri Beers.** 2024 – Present. M.S. Student.

**Morgan Miedema.** 2023 – Present. M.S. Student.

**Jack Koslowski.** 2022 – Present. M.A. Student.

**Alyssa Roberts.** 2022 – 2024. M.S. Student. **Thesis:** "Using environmental DNA to detect the Four-toed Salamander (*Hemidactylium scutatum*)."

**Andy Fondren.** 2021 – 2023. M.S. Student. **Thesis:** "Variation and sexual dimorphism in color and head morphology in American Toads (*Anaxyrus americanus*)."

**Devon Bowker.** 2021 – 2023. M.A. Student.

**Bailey Richards.** 2020 – 2022. M.S. Student. **Thesis:** "Reflected color and biofluorescence in the Western Painted Turtle (*Chrysemys picta bellii*)."

**Alexander Seymour.** 2019 – 2021. M.S. Student.

**Serve or served as a Graduate Committee member for:**

**Noel Jones.** 2020 – Present. M.S. Student. Dept. of Biology and Chemistry, SCSU.

**Alex Maile.** 2022 – 2023. M.S. Student. Dept. of Biology and Chemistry, SCSU.

**Molly Cline.** 2021 – 2023. M.S. Student. Dept. of Biology and Chemistry, SCSU.

**Charles Christen.** 2021 – 2023. M.S. Student. Dept. of Biology and Chemistry, SCSU.

**Brittany Maldonado.** 2020 – 2022. M.S. Student. Biology Department, SLU.

**Arika Nyhus.** 2019 – 2020. M.S. Student. Department of Biology, SCSU.

**Zachary May.** 2018 – 2020. M.S. Student. Dept. of Biology and Chemistry, SCSU.

**Serve or served as Undergraduate Research Mentor for:**

**Dayton Johnson.** 2023 – Present. B.S. in Biology: Biodiversity, Ecology and Evolution. Dept.

of Biology and Chemistry, SCSU. Trained in tagging trail camera images and turtle identification, and frog call identification.

**Kerri Beers.** 2021 – 2023. B.S. in Biology: Biodiversity, Ecology and Evolution. Dept. of Biology and Chemistry, SCSU. Trained in image analysis of color and pattern with Mole Salamanders (Family Ambystomatidae), trapping and measuring turtles in aquatic environments, tagging trail camera images and turtle identification.

**Karrina DePas.** 2022 – 2023. B.S. in B.E.S. Life Science, Dept. of Biology and Chemistry SCSU. Trained in feature analysis in the program ImageJ and in data management and analysis.

**Abbie Halvorson.** 2022 – 2023. B.S. in Biology: Biodiversity, Ecology and Evolution. Dept. of Biology and Chemistry, SCSU. Trained in identifying species of turtles from trail camera images, tagging images in DigiKam, and data management and analysis.

**Nicole Gruwell.** 2022 – 2023. B.S. in Biology: Biodiversity, Ecology and Evolution. Dept. of Biology and Chemistry, SCSU. Trained in identifying species of turtles from trail camera images, tagging images in DigiKam, and data management and analysis.

**Savanna Droher.** 2022 – 2023. B.S. in Biology: Biodiversity, Ecology and Evolution. Dept. of Biology and Chemistry, SCSU. Trained in trapping and measuring turtles in aquatic environments.

**Ashley Kobernusz.** 2021 – 2022. B.S. in Biology: Biodiversity, Ecology and Evolution. Dept. of Biology and Chemistry, SCSU. Trained in turtle fecal sample dissection and quantification, and image analysis methods in ImageJ.

**Grants awarded:**

**Michael Lee.** 2020 – 2022. B.S. in Biology: Biodiversity, Ecology and Evolution. Dept. of Biology and Chemistry, SCSU. Trained in specimen preparation and preservation, amphibian and reptile identification, geometric morphometrics. Independent research projects examining the occurrence of non-native lizards across the upper Midwest and morphological variation in turtles.

**Grants and fellowships awarded:**

**Maxim Kroll.** 2020 – 2021. B.S. in Biology: Biodiversity, Ecology and Evolution. Dept. of Biology and Chemistry, SCSU. Trained in Minnesota amphibian and reptile identification and field techniques. Independent project to map the occurrence of *Ambystoma* salamanders over historical land-use data.

**Taylor Idland.** 2020 – 2021. B.S. in Biology: Biodiversity, Ecology and Evolution. Dept. of Biology and Chemistry, SCSU. Trained in Minnesota amphibian and reptile identification and field techniques.

**Bailey Richards.** 2019 – 2020. B.S. in Biology: Biodiversity, Ecology and Evolution. Dept. of Biology and Chemistry, SCSU. Trained in Minnesota amphibian and reptile identification. Independent research project examining the morphology of tadpoles in Minnesota.

**Alexander Seymour.** 2018 – 2019. B.S. Student in Biology: Biodiversity, Ecology and Evolution. Dept. of Biology and Chemistry, SCSU. Trained in Minnesota amphibian and reptile identification and mapping in QGIS. Independent research project examining biofluorescence across the life history of mole salamanders.

**Carly Portinen.** 2018 – 2019. B.S. Student. Dept. of Biology and Chemistry, SCSU. Trained

in Minnesota amphibian and reptile identification and mapping in QGIS.

### **INVITED SEMINARS AND WORKSHOPS:**

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Minnesota Wildlife Society Summer Workshop (invited speaker). September 2024.  
Iowa Lakeside Laboratory. June 2024. Link to related radio interview:  
<https://www.exploreokoboji.com/news/news-stories/lakeside-lab-speaker-series-to-feature-talk-by-dr-jennifer-lamb-on-amphibian-and-reptile-research-june-25>  
Minnesota Herpetological Society. May 2024.  
University of Southern Mississippi. April 2024.  
Associated Colleges of the Chicago Area. March 2023.  
Minnesota Herpetological Society. August 2022.  
Western Michigan University (Virtual). February 2022.  
Chicago Herpetological Society (Virtual). February 2021.  
Charles University, Prague, Czech Republic (Virtual). February 2021.  
North Dakota State University (Virtual). October 2020.  
Link to recording: <https://tinyurl.com/4jf5zv6c>  
Metropolitan State University, St. Paul, Minnesota, USA. March 2020.  
St. Cloud State University, St. Cloud, Minnesota, USA. September 2018.  
Mississippi Museum of Natural Science, Jackson, Mississippi, USA. July 2018.  
USGS Wetland and Aquatic Research Center, Lafayette, Louisiana, USA. March 2017.  
Louisiana State University Museum of Natural Science, Louisiana, USA. February 2017.

### **ORAL PRESENTATIONS:**

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\*Co-authors include undergraduate and or graduate students  
**Lamb, J.Y.** Midwest Partners in Amphibian and Reptile Conservation (MWPARC) – Update.  
Joint meeting of the Society for the Study of Amphibians and Reptiles (SSAR) and  
MWPARC. Ann Arbor, MI. June 2024.  
Roberts, A.E.\* and **Lamb, J.Y.** Four-toe or No? Using environmental DNA to detect the  
Four-toed Salamander (*Hemidactylium scutatum*) in Minnesota. Minnesota  
Wildlife Society, Bemidji, MN. February 2024.  
**Lamb, J.Y.** and B. Brodman. Equity: how do we start? Midwest Partners in Amphibian and  
Reptile Conservation (PARC) (Virtual). October 2021.  
**Lamb, J.Y.** and Davis, M.P. Biofluorescence and amphibians: what we know and what we  
need to figure out. Animal Behavior Society (Virtual). August 2021.  
\*Seymour, A.M. and **Lamb, J.Y.** Biofluorescence in aquatic life stages of salamanders. St.  
Cloud State University Husky's Showcase (Virtual). April 2021.  
**Lamb, J.Y.** and Muñoz, D. Orienting efforts and initiatives with the equity compass. Joint  
National Steering Committee Meeting of the Partners in Amphibian and Reptile  
Conservation (PARC) (Virtual). March 2021.  
\*Bynum, J., Wells, S., Incandela, J., **Lamb, J. Y.**, and Beachy, C.K. The larval life history of  
the southern two-lined salamander, *Eurycea cirrigera* Caudata, Plethodontidae) in  
southern Louisiana. Joint Meeting of Ichthyologists and Herpetologists, Rochester,  
NY. July 2018.

- Lamb, J.Y.,** Kreiser, B.R., Waddle, J.H., Glorioso, B.M., and Qualls, C.P. Gene flow and dispersal in the Gulf Coast waterdog (*Necturus beyeri*) within a stream. Southeastern Partners in Amphibian and Reptile Conservation, Helen, GA. February 2018.
- Lamb, J.Y.,** Kreiser, B.R., and Waddle, J.H. Population structure of the Gulf Coast Waterdog (*Necturus beyeri*). Hellbender Symposium. Mississippi Museum of Natural Science, Jackson, MS. June 2017.
- Lamb, J.Y.,** Kreiser, B.R., and Qualls, C.P. Phylogeography of the Spotted Dusky Salamander (*Desmognathus conanti*) in the Gulf Coastal Plain. Florida Museum of Natural History Annual Herpetology Conference, Gainesville, FL. March 2017.
- Lamb, J.Y.,** Kreiser, B.R., and Qualls, C.P. Phylogeography of dusky salamanders in the Gulf Coastal Plain: cryptic diversity and drainage connections. Mississippi Amphibian and Reptile Conservation and Research Meeting, Jackson, MS. August 2016.
- Lamb, J.Y.** You are not the father: Sexual isolation and paternity in two species of Gulf Coastal Plains *Desmognathus*. Special Highlands Conference on Plethodontid Salamander Biology, Highlands, NC. August 2016.
- Lamb, J.Y.** Salamanders: Habitat modeling, sex, and everything in-between. USM E3 Seminar, Hattiesburg, MS. September 2014.
- Lamb, J.Y.,** Waddle, J.H., and Qualls, C.P. Asymmetric interactions among brook salamanders (Genus *Eurycea*, Family Plethodontidae) in the Gulf Coastal Plain. Joint Meeting of Ichthyologists and Herpetologists, Chattanooga Convention Center, Chattanooga, TN. July 2014.
- Lamb, J.Y.,** Waddle, J.H., and Qualls, C.P. Asymmetric interactions among brook salamanders (Genus *Eurycea*, Family Plethodontidae) in the Gulf Coastal Plain. USM Biological Sciences Graduate Student Symposium, Hattiesburg, MS. April 2014.
- Lamb, J.Y.,** Qualls, C.P., and Waddle, J.H. Stream-breeding plethodontid salamanders in the Gulf Coastal Plain: Occupancy Modeling and Genetics. Ernest A. Liner Louisiana Herpetology Conference. LUMCON, Chauvin, LA. November 2013.
- Lamb, J.Y.,** Qualls, C.P., and Waddle, J.H. Stream-breeding plethodontid salamanders in the Gulf Coastal Plain: Are assemblages shaped by environmental gradients? Alabama Partners in Amphibian and Reptile Conservation Meeting. October 2013.
- Lamb, J.Y.** Occupancy modeling of streamside plethodontid salamanders in southern Mississippi. USM Biological Sciences Graduate Student Symposium, Hattiesburg, MS. April 2013.
- Lamb, J.Y.** Occupancy and detectability modeling of streamside plethodontid assemblages in southern Mississippi. Southeastern Partners in Amphibian and Reptile Conservation Conference. February 2013.
- Lamb, J.Y.** Habitat Associations of Plethodontid Salamander Communities in the De Soto national Forest. USM E3 Seminar Series, Hattiesburg, MS. March 2012.
- Lamb, J.Y.** Environmental Characteristics of Nest-sites Selected by Gopher Tortoises (*Gopherus polyphemus*). Mississippi Amphibian and Reptile Conservation Meeting, Jackson, MS. March 2010.
- Lamb, J.Y.** Nest Site Selection by Gopher Tortoises in South Mississippi. USM Graduate

## POSTER PRESENTATIONS:

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- \*Co-authors include undergraduate and or graduate students
- \*Miedema, M. and **Lamb, J.Y.** A tadpole's tail: biofluorescence in larval Grey Tree Frogs (*Hyla chrysoscelis/versicolor*). Minnesota Wildlife Society, St. Cloud, MN. February 2025.
- \*Beers, K., Winzeler, M., Grear, D., and **Lamb, J.Y.** Amphibian disease in Minnesota: swabbing for chytrid in true frogs (family Ranidae). Minnesota Wildlife Society, St. Cloud, MN. February 2025.
- Lamb, J.Y.** Collaborative conservation: Swabbing amphibians for disease and student learning. Minnesota Wildlife Society, Bemidji, MN. February 2024.
- \*Beers, K. and **Lamb, J.Y.** Sexual dimorphism in Eastern Tiger Salamanders (*Ambystoma tigrinum*). Midwest Partners in Amphibian and Reptile Conservation (PARC). Mankanda, IL. August 2023.
- \*Roberts, A. and **Lamb, J.Y.** Finding the right tool: Using environmental DNA methods to detect the Four-toed Salamander (*Hemidactylium scutatum*) in Minnesota. Midwest Partners in Amphibian and Reptile Conservation (PARC). Mankanda, IL. August 2023.
- \*Halvorson, A. and **Lamb, J.Y.** Environmental variables affecting basking behavior in Painted Turtles (*Chrysemys picta*). SCSU College of Science and Engineering (COSE) Research Colloquium. St. Cloud, MN. April 2023.
- \*Beers, K. and **Lamb, J.Y.** Spot the difference in salamanders: using museum specimens to examine pattern and shape. Posters at St. Paul. St. Paul, MN. March 2023.
- \*Roberts, A. and **Lamb, J.Y.** Using the right tool: Developing environmental DNA methods to detect the Four-toed Salamander (*Hemidactylium scutatum*) in Minnesota. Minnesota Wildlife Society. Brainerd, MN. February 2023.
- Lamb, J.Y.,** Leigh, D., and \*Richards, B.R. Monitoring and modeling: modeling wetland use by turtles in Central Minnesota. Minnesota Wildlife Society. Brainerd, MN. February 2023.
- Lamb, J.Y.,** Leigh, D., and \*Richards, B.R. Trapping turtles with cameras and nets: preliminary comparison of two methods. Midwest Partners in Amphibian and Reptile Conservation (PARC). Grand Rapids, MI. September 2022.
- \*Fondren, A. and **Lamb, J.Y.** Dynamic or Unchanging: Sexual Dichromatism in American Toads (*Anaxyrus americanus*). Midwest Partners in Amphibian and Reptile Conservation (PARC). Grand Rapids, MI. September 2022.
- \*Richards, B.R., Davis, M.P. and **Lamb, J.Y.** Biofluorescence and Its Variation in Western Painted Turtles (*Chrysemys picta bellii*). Midwest Partners in Amphibian and Reptile Conservation (PARC). Grand Rapids, MI. September 2022.
- \*Lee, M., \*Richards, B.R., and **Lamb, J.Y.** Weaponry and wounding in the Western Painted Turtle (*Chrysemys picta bellii*). Midwest Partners in Amphibian and Reptile Conservation (PARC) (Virtual). October 2021.
- \*Richards, B.R., \*Lee, M. and **Lamb, J.Y.** Turtle's eye view: is reflected color sexually dimorphic in Western Painted Turtles?. Midwest Partners in Amphibian and

- Reptile Conservation (PARC) (Virtual). October 2021.
- \*Richards, B.R. and **Lamb, J.Y.** Using fluorescence and other techniques to visualize tadpole anatomy. Joint Meeting of Ichthyologists and Herpetologists (Virtual). July 2021.
  - \*Seymour, A.M. and **Lamb, J.Y.** Biofluorescence within sexually dimorphic tree frogs. Joint Meeting of Ichthyologists and Herpetologists (Virtual). July 2021.
  - \*Lee, M., \*Richards, B.R., and **Lamb, J.Y.** Non-native lizards hiding in the Midwest. St. Cloud State University Husky's Showcase (Virtual). April 2021.
  - \*Richards, B.R. and **Lamb, J.Y.** Using fluorescence and other techniques to visualize tadpole anatomy. St. Cloud State University Husky's Showcase (Virtual). April 2021.
  - \*Seymour, A.M. and **Lamb, J.Y.** Biofluorescence within the sexually dimorphic grey treefrog complex. St. Cloud State University Husky's Showcase (Virtual). April 2021.
  - \*Lee, M., \*Richards, B.R., and **Lamb, J.Y.** Non-native lizards hiding in the Midwest. 10<sup>th</sup> Annual Minnesota State Conference of Undergraduate Scholarly and Creative Activity. April 2021.
- Lamb, J.Y. and Davis, M.P.** Shining a new light on salamanders: survey of biofluorescence across Caudata. Midwestern Partners in Amphibian and Reptile Conservation Meeting, Madrid, Iowa. August 2019.
- \*Seymour, A.M. and **Lamb, J.Y.** Biofluorescence across the ontogeny of two species of mole salamanders (Family Ambystomatidae). Midwestern Partners in Amphibian and Reptile Conservation Meeting, Madrid, Iowa. August 2019.
- Lamb, J.Y. and Davis, M.P.** Shining a new light on salamanders: survey of biofluorescence across Caudata. Joint Meeting of Ichthyologists and Herpetologists, Snowbird, UT. July 2019.
- \*Seymour, A.M. and **Lamb, J.Y.** Fluorescence across the life history of mole salamanders. St. Cloud State University Husky's Showcase, St. Cloud, MN. April 2019.
- Lamb, J.Y., Kreiser, B.R., Waddle, J.H., Glorioso, B.M., and Qualls, C.P.** Population structure and the conservation genetics of a widely distributed lotic salamander in the Gulf Coastal Plain. Southeastern Partners in Amphibian and Reptile Conservation, Helen, GA. February 2018.
- Lamb, J.Y.** Occupancy modeling of streamside plethodontid salamanders in southern Mississippi – Preliminary results. Southeastern Partners in Amphibian and Reptile Conservation Conference. February 2013.
- Mann, T., Mann, D.L., Turner, H., and **Lamb, J.Y.** Use of Silt Fencing Without Traps to Monitor Movements of Webster's Salamander along the Natchez Trace in Central Mississippi. Southeastern Partners in Amphibian and Reptile Conservation Conference. February 2013.
- Lamb, J.Y. and McWhorter, M.S.** A Preliminary Survey of the Herpetofauna of Lake Thoreau Environmental Center. Mississippi Academy of Sciences Meeting, Hattiesburg, MS. February 2011.
- Lamb, J.Y.** The Role of Auditory Information in Foot Rubbing Behaviors in Garnett's Bushbaby. Mississippi Academy of Sciences Meeting, Hattiesburg, MS. February 2009.

## **PROFESSIONAL DEVELOPMENT AND TRAINING:**

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- LGBTQ+ Advocate Power-Up: Level 2 training hosted by the SCSU LGBT Resource Center. 10/24/2024.
- Biological Collections in Ecology and Evolution Network (BCEENET) Workshop. Anoka-Ramsey Community College. 10/27/2023.
- Just Language: Designing conservation-centered safe spaces starting with our language (Virtual). Hudson River Foundation HEP Annual Conference. 11/30/2022.
- Safe Space Training. St. Cloud State University's LGBT Resource Center. 03/22/2022.
- Bystander Intervention to Stop Harassment Toward the LGBTQIA+ Community (Virtual). Right To Be ([righttobe.org](http://righttobe.org)). 02/28/2022.
- Assessment Day November 2021 (Virtual). The Office of Assessment and Our Husky Compact.
- "Developing and Strengthening Program Outcome." Twombly, K. and Finch, L. 11/22/2021.
- "Use of Data to Improve Student Learning." Twombly, K. and Finch, L. 11/23/2021.
- "AEFIS: The AY 20-21 Assessment Report." Evers, H. 11/13/2021.
- Becoming a J.E.D.I. Mentor Workshop (Virtual). Animal Behavior Society Meeting 2021. 08/01/21.
- Critical and Inclusive Mentoring Workshop (Virtual). Partners in Amphibian and Reptile Conservation Diversity, Equity, and Inclusion Task Team. Muñoz, D. 07/28/21.
- Native Studies Summer Workshop for Educators (Virtual). St. Cloud State University, Multicultural Resources Center. 06/28/21 – 07/2/21.
- Anti-racist Pedagogy. Ethnic, Gender, and Women's Studies. St. Cloud State University.
- "Introduction to Anti-Racist Pedagogy." Kishimoto, K. 07/27/2020.
- "The Community Anti-Racism (CARE) Initiative at St. Cloud State University: An Overview." Clifford, M. 08/03/2020.
- "Meeting the Complexity of Student Reactions to Learning about Structural Racism." Berila, B. 08/10/2020.
- Equity Seminar. Hammersmith, S.K. "Why change what works? Why change? What works?" St. Cloud State University. 02/13/2020.
- Assessment Workshop. Center for Excellence in Teaching and Learning New Faculty Workshops. St. Cloud State University. 01/10/19.
- Advising at St. Cloud State Workshop. Center for Excellence in Teaching and Learning New Faculty Workshops. St. Cloud State University. 01/10/19.
- Specifications Grading Seminar. Gateway Course Initiative in the College of Science and Engineering, St. Cloud State University. 2/15/19.
- Online Discussions: Hard Work but Worth it and Creating Labs for Online Courses. T4TL Workshop, St. Cloud State University. 2/14/18.
- PDP/PDR Workshop, Quality Matters Workshop, and Make It Stick Book Club sessions. Center for Excellence in Teaching and Learning New Faculty Workshops. St. Cloud State University. Fall 2018.
- Occupancy modeling in BUGS/JAGS and unmarked, Patuxent Wildlife Research Center, Laurel, MD. 11/12/13 – 11/14/13.

Responsible Conduct of Research Training (RCR) USM (8 hours)

## **PROFESSIONAL SERVICE:**

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### **Professional Societies and Organizations:**

Midwest Partners in Amphibian and Reptile Conservation (MW PARC)  
Chair or co-chair. January 2023 – Present.  
Advisory Board Member. 2021 – Present.  
Webmaster for [www.mwparc.org](http://www.mwparc.org) 2021 – Present.  
Chair of the Outreach and Communications Task Team. 2021 – 2023.  
Partners in Amphibian and Reptile Conservation (PARC) Diversity, Equity, and Inclusion Task Team.  
Co-chair. January 2021 – August 2022.  
Demographic Survey Project Co-Leader. Oct. 2017 – January 2024.  
Steering Committee Member. 2017 – January 2024.  
Best Meeting Practices Project Co-Leader. May 2020 – May 2023.  
National Science Foundation Graduate Research Fellowship Review Panel Member. 2020 – 2021.

### **Other:**

Associate Editor for Herpetology for the journal *Ichthyology and Herpetology* (formerly *Copeia*). 2020 – 2024.  
Served as an anonymous peer-reviewer for the following journals:  
Journal of Herpetology, Herpetologica, Herpetological Review, Ichthyology and Herpetology (formerly *Copeia*), PLOS ONE, Evolutionary Ecology, Science of Nature, Mammalia, Integrative and Comparative Biology, Northeastern Naturalist, Current Zoology, Reptiles and Amphibians, Royal Society Open Science  
Poster Judge. Society for the Study of Amphibians and Reptiles virtual student poster session. July 2020.  
Judge for *Copeia* Best Paper Awards. Spring 2018.

### **Service to University, College, and Department:**

#### **University Committees**

Institution for Animal Care and Use (IACUC). 2023 – Present. Chair 2023 – Present.

#### **Committees in the Dept. of Biology and Chemistry** (formerly Dept. of Biology):

Policy Committee Member. 2023 – 2024. Chair 2023 – 2024; 2024 – 2027.  
Graduate Committee Member. 2019 – 2024; 2024 – 2027. Interim Chair 2020 – 2021.  
Safety Committee Member. 2024 – 2027.  
Curriculum Committee Member. 2019 – 2021, 2023 – 2024.  
Assessment Committee. 2021 – 2024. Chair 2021 – 2023.  
Development Committee Member. 2020 – 2021.

Committee member for the Ecology Fixed Term Non-Probationary Search. Spring 2022.

Committee member for the Plant Biology Probationary Faculty Search. Spring 2022.

Ecology Fixed Term Non-Probationary Search Committee Chair. Spring 2020.  
Gender and Women's Studies Advisory Board Member. SCSU. 2021 – Present.  
College of Science and Engineering Academic Orientation Panel Member. Fall 2021.  
Led student tours of Dept. of Biology during COSE New Student Orientation. Fall 2019.  
Hosted a Zoom room for the Biology Master's Program at SCSU's Mainstreet event.  
September 2020.  
Tabled for the SCSU Dept. of Biology Master's Program during the SCSU Graduate Fair.  
September 2019.  
Poster Judge. St. Cloud State University Husky's Showcase. April 2019.  
Poster Judge. 8<sup>th</sup> Minnesota State Undergraduate Conference. St. Cloud State University.  
March 2019.

### **COMMUNITY ENGAGEMENT AND SERVICE:**

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Faculty Co-Adviser. The Into the Wild Society student club. SCSU. Fall 2019 – Present.  
Exhibitor. Morris Area School District STEM Expo. 17 January 2024.  
Presenter. Friends of Lake Maria Group. 11 November 2023.  
Interviewed for The Wandering Naturalist Podcast about research at SCSU. Aired  
09/07/2022. <https://thewanderingnaturalist.libsyn.com/episode-140-glowing-amphibians-wait-they-glow>  
Research Open House Event. SCSU. Hosted by multiple student-led academic clubs in the  
College of Science and Engineering. 16 February 2022.  
Bat Education Event for Girl Scouts (Troop 636; leader Kari Boehmer). 29 April 2021.  
Co-speaker with M.P. Davis for StCloudTedX. "The glowing creatures hidden in your  
backyard." October 2020. Link to recording:  
<https://www.youtube.com/watch?v=52VoVgKYhXU>  
Workshop Presenter. TechSavvy (American Association of University Women), "Murder  
Mysteries: How we use Science and Art to Identify Animal Predators." SCSU,  
10/26/19.  
Letters to a Pre-Scientist pen-pal. Aug. 2018 – May 2019.  
Workshop Presenter. TechSavvy (American Association of University Women), "Catching  
and counting amphibians and reptiles for conservation." SCSU, 10/27/18.  
Herpetology Lead. New Orleans City Park Bioblitz, New Orleans, LA, July and Oct. 2017.  
Instructor. LTEC's Secrets of Salamanders event. 2/24/17.

#### **Guest Speaker:**

Central Minnesota Audubon Society, St. Cloud, MN. 11/16/2022. Supplementary video  
produced for this event available here:  
[https://mediaspace.minnstate.edu/media/Field+identification+tips+for+amphibians+and+reptiles/1\\_7bne1zd5](https://mediaspace.minnstate.edu/media/Field+identification+tips+for+amphibians+and+reptiles/1_7bne1zd5)  
MN Dept. of Natural Resources District Resource Meeting. October 2022.  
Master Herpetology Course, The Amphibian Foundation. Summer 2020.  
Central Minnesota Audubon Society, St. Cloud, MN, 9/19/18.  
Biology Undergraduate Society (BUGS), SLU, 11/8/17.

## PROFESSIONAL MEMBERSHIPS, HONORS, AND AWARDS:

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### Associations:

Minnesota chapter of The Wildlife Society. 2022 – Present.  
Midwest Partners in Amphibian and Reptile Conservation (MW PARC), 2018 – Present.  
Partners in Amphibian and Reptile Conservation (PARC), 2013 – Present.  
American Society of Ichthyologists and Herpetologists (ASIH), 2013 – 2024.  
Animal Behavior Society, 2021 – 2022.  
Society for the Study of Amphibians and Reptiles, 2008 – 2022.  
Herpetologist's League, 2013 – 2022.

### Honors and awards:

ASIH Nominee for BioOne Ambassador Award 2018 for the paper "Sexual isolation between two sympatric *Desmognathus* in the Gulf Coastal Plain." in Copeia.  
2017 Best Paper Young Scholar in Herpetology in Copeia for the paper "Sexual isolation between two sympatric *Desmognathus* in the Gulf Coastal Plain."  
USM 2016 Graduate Student Hall of Fame.  
National Science Foundation Graduate Research Fellowship Honorable Mention. 2010.  
Best paper. Florida Museum of Natural History Annual Herpetology Conference. 3/25/17.