

## DAY B. LIGON

Department of Biology  
Missouri State University  
901 South National Avenue  
Springfield, MO 65897 USA

Phone: 417.836.5339 or 417.773.3764  
E-mail: DayLigon@MissouriState.edu

### **EDUCATION:**

Oklahoma State University, Stillwater, OK

Ph.D. (Zoology), December 2007, "Effects of incubation temperature on the physiology, behavior and morphology of turtles." Dr. Matthew B. Lovern, advisor.

Oklahoma State University, Stillwater, OK

M.S. (Zoology), August 2001, "Physiological and behavioral variation during estivation among mud turtles (Kinosternidae) of the southwestern United States." Dr. Charles C. Peterson, advisor.

Lewis and Clark College, Portland, OR

B.S. (Biology), May 1997, "Seasonal movements and nesting ecology of western painted turtles, *Chrysemys picta bellii*." Dr. Bruce Neill, senior research advisor.

### **RESEARCH INTERESTS:**

Conservation Biology, Comparative Physiology, Herpetology

### **HONORS AND AWARDS:**

- 2021. *Award for Excellence in Research*, Missouri State University College of Natural and Applied Sciences
- 2020. *Award from Students for Faculty Excellence*, Missouri State University College of Natural and Applied Sciences
- 2016. *Award for Excellence in Teaching*, Missouri State University College of Natural and Applied Sciences
- 2015. *Summer Faculty Fellowship*, Missouri State University Graduate College
- 2013. *Atwood Faculty Research and Teaching Award*, Missouri State University College of Natural and Applied Sciences
- 2013. *Outstanding Graduate Mentor*, Missouri State University Graduate College
- 2012. *Summer Faculty Fellowship*, Missouri State University Graduate College
- 2012. *Award from Students for Faculty Excellence*, Missouri State University College of Natural and Applied Sciences
- 2012. *Award for Excellence in Teaching*, Missouri State University College of Natural and Applied Sciences
- 2007. *Doctoral Student of the Year*, Oklahoma State University Department of Zoology.
- 2002. *Presidential Fellowship for Water, Energy, and the Environment* Oklahoma State University Environmental Institute. 3 years.

2000. *Wilhm Teaching Award in Zoology*, Oklahoma State University.

**PROFESSIONAL HISTORY AND COURSES TAUGHT:**

2019–present            Professor, Missouri State University

2014–2019            Associate Professor, Missouri State University

2009–2014.            Assistant Professor, Missouri State University  
General Physiology            Reintroduction Biology  
Comparative Physiology        Advanced Vertebrate Zoology  
Sex Ratio Allocation            Physiology of Reptile and Bird Eggs

2013–present.        Adjunct faculty, Oklahoma State University Department of Zoology

2008–2009.            Visiting Assistant Professor, Missouri State University  
General Biology for Majors  
General Physiology (lecture and laboratory)

2006–2007.            Lecturer, Oklahoma State University.  
General Physiology (2 semesters)  
Senior Physiology Seminar (co-taught 1 semester)

1998–2007.            Teaching Assistant, Oklahoma State University  
Mammalian Physiology (1 semester)  
General Physiology (14 semesters)

1994–1995.            Teaching Assistant, Lewis & Clark College  
General Astronomy (2 semesters)

**UNDERGRADUATE PROTÉGÉS:**

<sup>1</sup> Kristl Richardson. 2003	Brooke McWherter. 2012–2013
<sup>2</sup> Stephanie Rawlins. 2003–2004	<sup>6</sup> Tyler Dean. 2012
David Roper. 2003–2004	Megan Smith, 2012–2013
<sup>2,3</sup> Shana Watkins. 2003–2006	Adam Rolwes. 2012
<sup>4</sup> Gage Gregory. 2004–2006	<sup>6</sup> Joshua Harmon. 2013–2014
<sup>4</sup> Nick Rasmussen. 2005–2006	Kristofer Soltys. 2017
Ann Kjellerson. 2008	<sup>7,8,9</sup> Anthony Grate. 2019–20
Tyler Sanders. 2008	Mikayla Mattingly. 2019
<sup>5</sup> Brad Graevs. 2010–2012	Korinna Brandt. 2019–20
<sup>6</sup> Ethan Hollender. 2011–2013	Julianna Kolf. 2019
Hillary Kozeny. 2011–2012	Jeremy Graham. 2019–20

<sup>1</sup>Supported by the Howard Hughes Medical Institute and Oklahoma State University (Retention of Students in the Biological Sciences Program)

<sup>2</sup>Supported by the Howard Hughes Medical Institute and Oklahoma State University (Critical Thinking in the Biological Sciences)

<sup>3</sup>Supported by a Niblack Research Scholarship, Oklahoma State University

<sup>4</sup>Supported by a Wentz Research Scholarship, Oklahoma State University

<sup>5</sup>Supported in summer 2011 by a Missouri State Space Consortium Scholarship, Missouri State University

<sup>6</sup>Summer salary paid from a State Wildlife Grant (Oklahoma)

<sup>7</sup>MoSLAMP scholar; 1<sup>st</sup> place at the MoSLAMP conference poster competition

**GRADUATE STUDENTS**

<sup>1,4</sup>Tyler Sanders. Major advisor (2011)

<sup>2,6</sup>Jessica Miller. Major Advisor (2012)

<sup>3,4</sup>Mitchell East. Major Advisor (2012)

<sup>5</sup>Travis Anthony. Major Advisor (2013)

<sup>1,3</sup>Charlie Tucker. Major Advisor (2013)

<sup>3,4,7,10</sup>Denise Thompson. Major Advisor (2013)

<sup>4,5,6,8,11</sup>Donald McKnight. Major Advisor (2014)

<sup>3,9,14</sup>Eric Sievers, Major Advisor (2015)

<sup>3,12,13,18</sup>Sarah Spangler, Major Advisor (2017)

<sup>3,15</sup>Kristen Sardina, Major Advisor (2018)

<sup>3</sup>Brandon Tappmeyer, Major Advisor (2019)

<sup>3,17</sup>Ethan Hollender, Major Advisor (2019)

<sup>3,4</sup>Kammie Voves, Major Advisor (2020)

<sup>3</sup>Samantha Hannabass, Major Advisor (2020)

<sup>3,4,10</sup>Ashley Gagnon (2021)

<sup>3</sup>Melisa Blasky (*in progress*)

<sup>3</sup>Parker Golliglee (*in progress*)

<sup>3</sup>Hanna Dallas (*in progress*)

<sup>3</sup>Gina Buelow (*in progress*)

<sup>3,19</sup>Nix Coppock (*in progress*)

<sup>3</sup>Anthony Grate (*in progress*)

<sup>3</sup>Wesley Smith (*in progress*)

Cora Dyslin (*in progress*)

Jean Elbers. Committee member (2010)

Robert Hunt. Committee member (2010)

Wendy Evans. Committee member (2012)

Ben Bosman. Committee member (2012)

Risa Wright. Committee member (2013)

Ben Dalton. Committee member (2013)

Daniel Schepis. Committee member (2013)

Emilee Helton. Committee member (2013)

Zach Wrensch. Committee member (2014)

Rachel Bortosky. Committee member (2014)

Joseph Churilla. Committee member (2015)

Makayla Exner. Committee member (2015)

Kristopher Maxson. Committee member (2015)

Amy Maynard. Committee member (2015)

Kayla Shelton. Committee member (2016)

Kristen Kohlhepp. Committee member (2016)

Rhyan Friesen. Committee member (2017)

Dylan Maag. Committee member (2017)

Kendell Loyd. Committee member (2017)

Briana Anderson. Committee member (2018)

Chelsea Martin. Committee member (2019)  
Stephanie Morrison. Committee member (2019)  
Tyler Remick. Committee member (*in progress*)  
Alex Meinders. Committee member (*in progress*)  
Joel (Kenzie) Medley. Committee member (*in progress*)  
Trey Recker. Committee member (*in progress*)  
Connor Cunningham. Committee member (*in progress*)

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<sup>1</sup>NASA-Missouri Space Grant Consortium Fellowship

<sup>2</sup>MNAS Teaching Assistantship

<sup>3</sup>BIO Teaching Assistantship

<sup>4</sup>*Sigma Xi Grant-in-Aid of Research*

<sup>5</sup>*Research Assistantship funded by an Oklahoma State Wildlife Grant*

<sup>6</sup>*Distinguished Thesis Award, Missouri State University*

<sup>7</sup>*Distinguished Teaching Assistant Award, Missouri State University*

<sup>8</sup>*Outstanding Student Oral Presentation, 2013 Turtle Survival Alliance*

<sup>9</sup>Prairie Biotic Research, Inc., small grants program

<sup>10</sup>Howard McCarley Student Research Award, Southwestern Association of Naturalists

<sup>11</sup>Clark Hubbs Poster Award, Southwestern Association of Naturalists

<sup>12</sup>Research Assistantship funded by a Competitive State Wildlife Grant

<sup>13</sup>U.S. Fish and Wildlife Service Pathways Program Internship

<sup>14</sup>Russell G. Barnekow, Jr. Memorial Scholarship

<sup>15</sup>MSU Interdisciplinary Forum Oral Presentation Award

<sup>16</sup>American Museum of Natural History Theodore Roosevelt Memorial Grant

<sup>17</sup>Kansas Department of Wildlife, Parks and Tourism Chickadee Checkoff Grant

<sup>18</sup>3-minute Thesis Competition winner, Missouri State University

<sup>19</sup>Chicago Herpetological Society grant

### **PROFESSIONAL SERVICE:**

2015–present. Associate Editor, Herpetological Conservation and Biology

2013–present. Board of Governors, Southwestern Association of Naturalists

2012–2015. Assistant Editor, Herpetological Conservation and Biology

2011–2012. Board of Directors, National Friends of Fisheries Partnership

2010–present. President, Friends of Alligator Snapping Turtles (Non-profit organization in partnership with the U.S. Fish and Wildlife Service)

2008. Guest editor, *The Southeastern Naturalist*

2007–present. Board of Governors, Oklahomans for Excellence in Science Education

2006–2007. OSU Zoology Department Seminar Committee

2006. Zoology Graduate Student Society Grant Committee

2003–present. I have reviewed manuscripts for *Physiological and Biochemical Zoology*, *Comparative Biochemistry and Physiology*, *Journal of Thermal Biology*, *Conservation Biology*, *Herpetologica*, *Herpetological Conservation and Biology*, *Journal of Herpetology*, *Copeia*, *Southwestern Naturalist*, *Southeastern Naturalist*, *Western North American Naturalist*, *Acta Herpetologica*, *Chelonian Conservation and Biology*, *Reptiles*

*and Amphibians, Herpetological Review, Endangered Species Research, and Current Zoology, Tropical Natural History.*

**PROFESSIONAL AFFILIATIONS:**

American Society of Ichthyologists and Herpetologists; Chelonian Research Foundation; Sigma Xi, The Scientific Research Society; Society for Integrative and Comparative Biology; Society for the Study of Amphibians and Reptiles; Southwestern Association of Naturalists; Turtle Survival Alliance

**PUBLICATIONS:** (\* denotes graduate student co-authors; \*\* denotes undergraduates)

**PEER-REVIEWED PUBLICATIONS:**

1. Spangler, S.J.\*, D.M. Thompson, B.M. Fillmore, R. Simmons, K. Graves, and D.B. Ligon. 2021. Movement patterns and habitat associations of hatchling alligator snapping turtles (*Macrochelys temminckii*). *Herpetological Conservation and Biology* (*accepted*).
2. Hollender, E.C.\* and D.B. Ligon. 2021. Freshwater turtle community composition in strip pit lakes on mined lands. *Herpetological Conservation and Biology* 16:183–193.
3. McKnight, D.T.\* and D.B. Ligon. 2020. Estivation site selection of Western Chicken Turtles (*Deirochelys reticularia miaria*). *Southwestern Naturalist* 64:187–194.
4. Munscher, E., J. Gray, A. Tuggle, D.B. Ligon, V. Gladkaya, C. Franklin, C. Drake, V. Ricardez, B.P. Butterfield, and A. Walde. 2020. Discovery of an Alligator Snapping Turtle population in metropolitan Houston, Harris County, Texas. *Urban Naturalist* 32:1–14.
5. Thompson, D.M.\*, B.M. Fillmore, K. Graves, and D.B. Ligon. 2019. Maternal investment patterns and reproductive variation in a captive population of alligator snapping turtles (*Macrochelys temminckii*). *Herpetologica* 75:280–289.
6. Hollender, E.C.\*\*\*, T.L. Anthony\*, and D.B. Ligon. 2018. Motorboat injury rates to aquatic turtles. *Chelonian Conservation and Biology* 17:298–302.
7. McKnight, D.T.\*, E.C. Hollender\*, H.J. Howell, J.L. Carr, K.A. Buhlmann, and D.B. Ligon. 2018. Egg and clutch sizes of western chicken turtles (*Deirochelys reticularia miaria*). *Acta Herpetologica* 13:191–194.
8. Worthington, R.J.\*, E.R. Sievers\*, D.B. Ligon, and P.K. Lago. 2017. Insect (Arthropoda: Insecta) Composition in the Diet of Ornate Box Turtles (*Terrapene ornata ornata*) in Two Western Illinois Sand Prairies, with a New State Record for *Cyclocephala* (Coleoptera: Scarabaeidae). *Great Lakes Entomologist* 50:61–67.
9. McKnight, D.T.\* and D.B. Ligon. 2017. Correcting for unequal catchability in sex ratio and population size estimates. *PLoS ONE* 12(8):e0184101.
10. McKnight, D.T.\*, H.J. Howell\*\*, E.C. Hollender\*, and D.B. Ligon. 2017. Good vibrations: a novel method for sexing turtles. *Acta Herpetologica* 12:171–121.
11. Thompson DM, DB Ligon, JC Patton, and M Papes. 2017. Effects of life history requirements on the distribution of a threatened reptile. *Conservation Biology* 31:427–436.
12. Tucker, C.R.\*, J.T. Strickland, D.K. Delaney, and D.B. Ligon. 2017. Thermal consequences of subterranean nesting in a prairie-dwelling turtle, *Terrapene ornata*. *Canadian Journal of Zoology* 95:123–131.

13. McKnight, D.T. and D.B. Ligon. 2016. Chorusing patterns of a diverse anuran community, with an emphasis on Southern Crawfish Frogs (*Lithobates areolatus areolatus*). *Journal of North American Herpetology* 2016:1–10.
14. McKnight, D.T.\*, J.R. Harmon\*, J.L. McKnight, and D.B. Ligon. 2015. The spring-summer nesting and activity patterns of the Western Chicken Turtle (*Deirochelys reticularia miaria*). *Copeia* 103:1043–1047.
15. McKnight, D.T.\*, A.C. Jones\*, and D.B. Ligon. 2015. The omnivorous diet of the western chicken turtle (*Deirochelys reticularia miaria*). *Copeia* 103:322–328.
16. McKnight, D.T.\*, Harmon, J.\*\*\*, McKnight, J., and Ligon, D.B. 2015. Taxonomic biases of seven methods used to survey a diverse herpetofaunal community. *Herpetological Conservation and Biology* 10:666–678.
17. Tucker, C.R.\*, J.T. Strickland, B.S. Edmond, D.K. Delaney, and D.B. Ligon. 2015. Activity patterns of Ornate Box Turtles (*Terrapene ornata*) in northwestern Illinois. *Copeia* 103:502–511.
18. Anthony, T.L.\*, J.D. Riedle, E.C. Hollender\*\*, and D.B. Ligon. 2015. Monitoring of a reintroduced population of juvenile alligator snapping turtles. *Chelonian Conservation and Biology* 14:43–48.
19. Miller, J.L.\*, D.M. Thompson\*, J. Heywood, and D.B. Ligon. 2014. Nest-site fidelity and nest-site selection among reintroduced *Macrochelys temminckii*. *The Southwestern Naturalist* 59:188–195.
20. Miller, J.L.\*, D.M. Thompson\*, and D.B. Ligon. 2014. Estimating clutch size in predated *Macrochelys temminckii* nests. *Herpetological Review* 45:401–404.
21. Ligon, D.B., K. Backues, B.M. Fillmore, and D.M. Thompson\*. 2014. Ontogeny of gonad and genital morphology in juvenile alligator snapping turtles (*Macrochelys temminckii*). *Herpetological Conservation and Biology* 9:146–155.
22. McKnight, D.T.\*, J.R. Harmon\*\*, J.L. McKnight, and D.B. Ligon. 2014. Notes on the diets of seven sympatric snake species in the genera *Agkistrodon*, *Nerodia*, *Sistrurus*, and *Thamnophis*. *Herpetology Notes* 7:171–177.
23. Moore, D.B.\*, D.B. Ligon, B.M. Fillmore, and S.F. Fox. 2014. Space use and habitat selection in a translocated population of alligator snapping turtles (*Macrochelys temminckii*). *Southwestern Naturalist* 59:30–37.
24. Tucker, C.R.\*, T.A. Radzio\*, J.T. Strickland, E. Britton, D.K. Delaney, and D.B. Ligon. 2014. Use of automated telemetry to detect nesting activity in ornate box turtles. *American Midland Naturalist* 171:78–89.
25. Miller, J.L.\* and D.B. Ligon. 2014. Sex ratios in naturally incubated *Macrochelys temminckii* nests, a species with type II TSD. *Journal of Thermal Biology* 39:6–11.
26. East, M.B.\* and D.B. Ligon. 2013. Diet comparison between reintroduced and wild juvenile alligator snapping turtles (*Macrochelys temminckii*) and Ouachita map turtles (*Graptemys ouachitensis*). *The Southwestern Naturalist* 58:450–458.

27. McKnight, D.T.\*, T. Dean\*\*, and D.B. Ligon. 2013. An effective method for increasing the catch rate of pitfall traps. *Southwestern Naturalist* 58:446–449.
28. East, M.B.\*, B.M. Fillmore, and D.B. Ligon. 2013. Feeding behavior of captive-reared juvenile alligator snapping turtles (*Macrochelys temminckii*). *Southeastern Naturalist* 12:692–702.
29. East, M.B.\*, J.D., Riedle, and D.B. Ligon. 2013. Temporal changes in an alligator snapping turtle (*Macrochelys temminckii*) population. *Wildlife Research* 40:77–81.
30. Moore, D.B.\*, D.B. Ligon, B.M. Fillmore, and S.F. Fox. 2013. Growth and viability of a translocated population of alligator snapping turtles (*Macrochelys temminckii*). *Herpetological Conservation and Biology* 8:141–148.
31. McKnight, D.T.\*, J. Tucker, and D.B. Ligon. 2012. Western Chicken Turtles (*Deirochelys reticularia miaria*) at Bohler Seeps and Sandhills Preserve, Oklahoma. *Proceedings of the Oklahoma Academy of Science* 92:47–50.
32. Ligon, D.B., C.C. Peterson, M.B. Lovern. 2012. Acute and persistent effects of incubation and post-embryonic thermal environments on hatchling growth and metabolism in the red-eared slider turtle, *Trachemys scripta elegans*. *Journal of Experimental Zoology* 317:227–235.
33. Ligon, D.B. and M.B. Lovern. 2012. Interspecific variation in temperature effects on embryonic metabolism and development in turtles. *ISRN Zoology* 2012:13 pp.
34. Ligon, D.B. and M.B. Lovern. 2009. Temperature effects during early life stages of the alligator snapping turtle (*Macrochelys temminckii*). *Chelonian Conservation and Biology* 8(1):74–83.
35. Ligon, D.B., J. Bidwell, and M.B. Lovern. 2009. Incubation temperature effects on hatchling growth and metabolic rate in the African spurred tortoise, *Geochelone sulcata*. *Canadian Journal of Zoology* 87(1):64–72.
36. Riedle, J.D, D.B. Ligon, and K. Graves. 2008. Distribution and Management of Alligator Snapping Turtles, *Macrochelys temminckii*, in Kansas and Oklahoma. *Transactions of the Kansas Academy of Science* 111:21–28.
37. Ligon, D.B. and J. Reasor. 2007. Alligator snapping turtle (*Macrochelys temminckii*) predation by river otters (*Lutra canadensis*). *The Southwestern Naturalist* 52:618–620.
38. Ligon, D.B. and P.A. Stone. 2003. Radiotelemetry Reveals Terrestrial Estivation in Sonoran Mud Turtles (*Kinosternon sonoriense*). *Journal of Herpetology* 37:750–754.
39. Ligon, D.B. and C.C. Peterson. 2002. Physiological and behavioral variation in estivation among mud turtles (*Kinosternon* spp.). *Physiological and Biochemical Zoology* 75:283–293.

NATURAL HISTORY NOTES:

1. McKnight, D.T\* and D.B. Ligon. 2014. Shell and pattern abnormalities in a population of western chicken turtles (*Deirochelys reticularia miaria*). *Herpetology Notes* 7:89–91.
2. McKnight, D.T.\*, J.L. McKnight, T.L. Dean\*\*, and D.B. Ligon. 2013. *Acris blanchardi* (Blanchard's Cricket Frog) Feigning Death. *Herpetological Review* 44:117.

3. McKnight, D.T.\* and D.B. Ligon. 2013. *Scaphiopus hurterii* (Hurter's Spadefoot) Leucism. *Herpetological Review* 44:131–132.
4. Stone, P.A. and D.B. Ligon. 2011. *Bufo punctatus* (Red-spotted Toad) and *Thamnophis cyrtopsis* (Black-necked Garter Snake) prey-predator interactions. *Herpetological Review* 42:82–83.
5. Ligon, D.B. 2007. *Trachemys scripta* (Red-eared Slider Turtle) predation. *Herpetological Review* 38:201–202.
6. Ligon, D.B. and P.A. Stone. 2003. *Kinosternon sonoriense* (Sonoran Mud Turtle) predation of *Bufo punctatus* (Red-spotted Toad). *Herpetological Review* 34:241–242.

OTHER PUBLICATIONS:

1. McKnight, D.T., D.M. Thompson, D.B. Ligon, J.C. Serano, P. Pop, J.A. Marlin, and H. Barrett. 2021. Population ecology and conservation of *Dermatemys mawii* in Belize. Final Report, Belize Fisheries Department. 51 pp.
2. Ligon, D.B., D.T. McKnight, and D.M. Thompson. 2021. Population status of the critically endangered Central American River Turtle (*Dermatemys mawii*) in Belize. Final Report, PADI Foundation. 22 pp.
3. McKnight, D.T., D.M. Thompson, and D.B. Ligon. 2021. Population ecology and conservation of *Dermatemys mawii* in Belize. Final Report, Turtle Conservation Fund/Global Wildlife Conservation Contract TCF-0759. 23 pp.
4. Ligon, D.B., K.A. Voves\*, and S. Hannabass\*. 2021. Annual Report, Post-release monitoring of Alligator Snapping Turtles. Interim Report, Kansas Department of Wildlife, Parks, and Tourism Grant F20AP00048 (E-33-R-1).
5. Ligon, D.B. and H.K. Dallas\*. 2021. Life history of Western Chicken Turtles in southeastern Oklahoma: nesting ecology and longevity. Interim Report, Oklahoma Department of Wildlife Conservation State Wildlife Grant F19AF00843 (T-1114-R-1). 16 pp.
6. Ligon, D.B. 2020. Hicatee research in a pandemic. *Turtle Survival Alliance Magazine*.
7. Ligon, D.B. and S.L. Hannabass\*. 2020. Growth, reproduction, and immigration in an introduced population of Alligator Snapping Turtles. Final Report, Grant F16AP00596 (E-31-R-1). 25 pp.
8. Ligon, D.B., D.T. McKnight\*, D.M. Thompson\*, E.C. Hollender\*, and J.A. Marlin. 2019. The development of protocols and training for population estimates of the Central American River Turtle (*Dermatemys mawii*) in the Spanish Creek/Belize River Watershed Key Biodiversity Area. Final Report to PACT, The World Bank, and The Government of Belize. 53 pp.
9. Ligon, D.B., D.T. McKnight\*, and J. Harmon\*. 2018. Assessing the extent and density of Chicken Turtle populations in southeastern Oklahoma. Final Report, State Wildlife Grant F13AF01189, Oklahoma Department of Wildlife Conservation, Oklahoma City. 18 pp.
10. Ligon, D.B. and K. Soltys\*. 2018. Herpetofaunal Survey: Reptiles and amphibians at Golden Prairie in Barton County, Missouri. Final Report to Missouri Prairie Foundation. 9 pp.



11. Ligon, D.B. and E.C. Hollender\*. 2018. Aquatic turtle community composition in artificial wetlands and natural oxbow lakes in southeastern Kansas. Chickadee Checkoff Final Report, Kansas Department of Wildlife, Parks, and Tourism. 17 pp.
12. Dreslik, M.J., J.L. Carr, D.B. Ligon, and E.J. Kessler. 2017. Recovery of the alligator snapping turtle (*Macrochelys temminckii*) in the Mississippi River Valley drainages of southern Illinois, Oklahoma, and Louisiana. Illinois Natural History Survey Technical Report 2017(28). 112 pp.
13. Ligon, D.B. and D.T. McKnight\*. 2014. A herpetological survey of Boehler Seeps and Sandhills Preserve, Atoka County, OK, with an emphasis on the ecology of western chicken turtles (*Deirochelys reticularia miaria*) and southern crawfish frogs (*Lithobates areolatus areolatus*). Final Report, State Wildlife Grant F12AF00206, Oklahoma Department of Wildlife Conservation, Oklahoma City. 44 pp.
14. Ligon, D.B. and T.L. Anthony\*. 2013. A Survey of Alligator Snapping Turtles and Other Turtle Species in Three Northeastern Oklahoma Rivers: 1 July 2010–30 June 2013. Final Report, State Wildlife Grant T-52-1, Oklahoma Department of Wildlife Conservation, Oklahoma City. 29 pp. + 6 pp. Appendix.
15. Ligon, D.B. and J.D. Riedle. 2009. Alligator snapping turtle reintroduction. Turtle Survival Alliance Annual Newsletter, p. 46–47.
16. Ligon, D.B. 2007. Alligator snapping turtle translocation. Turtle Survival Alliance Annual Newsletter, p. 10–11.
17. Ligon, D.B. and M.B. Lovern. 2004. Meyer publication worse than just bad science (Correspondence to Nature). Nature (London) 432:949.

MANUSCRIPTS IN PREPARATION OR SUBMITTED FOR REVIEW:

1. Thompson, D.M., D.B. Ligon, B.S. Edmond, S.J. Spangler, B.M. Fillmore, K.G. Graves, and M. Lovern. Reproductive cycles and activity patterns of Alligator Snapping Turtles (*Macrochelys temminckii*). General and Comparative Endocrinology (*submitted*)
2. Gagnon, A.H\*, D.A. Penning, A. White, K. Graves, R. Simmons, and D.B. Ligon. Bite performance of captive Alligator Snapping Turtles (*Macrochelys temminckii*) improves after reintroduction. Journal of Herpetology (*in preparation*)
3. Hollender, E.C\*, D.B. Ligon, and D.T. McKnight. Learned trap avoidance in freshwater turtles. Wildlife Research (*in revision*)
4. Sardina, K.E.\* , D.M. Thompson\*, B.M. Fillmore, K. Graves, M. Lovern, and D.B. Ligon. Effects of Indoor Housing Conditions on Growth Rate and Plasma Corticosterone Levels in Alligator Snapping Turtles. Chelonian Conservation and Biology (*in revision*).
5. McKnight, D.T., J.C. Serano, D.M. Thompson, and D.B. Ligon. They really do move in herds: evidence of group living in an aquatic turtle. Journal of Animal Ecology (*in review*)
6. Thompson, D.M.\*, B.M. Fillmore, K. Graves, and D.B. Ligon. Nesting behavior and ecology of the alligator snapping turtle (*Macrochelys temminckii*). Southeastern Association of Naturalists (*in preparation*)
7. Sanders, T.R.\*, B. Graevs\*, R.T. Kazmaier, and D.B. Ligon. Yellow mud turtle (*Kinosternon flavescens*) ecology during hibernation. Journal of Functional Ecology.

**RESEARCH GRANTS:**

**2021**

1. Activity and reproductive patterns of *Dermatemys mawii* in Belize. Turtle Conservation Fund (D.T. McKnight, D.M. Thompson, N. Coppock, and C. Dyslin, Co-investigators).
2. Ecology of the Central American River Turtle in Belize. Delta Foundation.

**2020**

1. Status assessments and conservation of the freshwater turtles of Belize. Delta Foundation.
2. Population status of the critically endangered Central American River Turtle (*Dermatemys mawii*) in Belize. PADI Foundation.
3. Population ecology and conservation of *Dermatemys mawii* in Belize. Turtle Conservation Fund. (Donald McKnight and Denise Thompson, Co-investigators)
4. Post release monitoring, population viability analysis, and recovery criteria for introduced populations of alligator snapping turtles. Kansas Department of Wildlife, Parks, and Tourism.

**2019**

1. Population estimates of the critically endangered Central American River Turtle in Belize. MSU Faculty Research Grant.
2. Reproductive Ecology and Longevity of Western Chicken Turtles in Southeastern Oklahoma. Oklahoma Department of Wildlife Conservation (State Wildlife Grant).
3. Population Genetics and Population Status of the Pancake Tortoise (*Malacochersus tornieri*) in East Africa. (Denise Thompson and Michael Tuma, Co-investigators) Delta Foundation.
4. Developing protocols and conducting a population estimate of the Hicatee, *Dermatemys mawii*, in Belize within the Spanish Creek/Belize River Watershed Key Biodiversity Area. Delta Foundation.
5. Developing protocols and conducting a population estimate of the Hicatee, *Dermatemys mawii*, in Belize within the Spanish Creek/Belize River Watershed Key Biodiversity Area. Government of Belize.
6. Population Genetics and Population Status of the Pancake Tortoise (*Malacochersus tornieri*) in East Africa. (Denise Thompson and Michael Tuma, Co-investigators) Turtle Conservation Fund.
7. Population Genetics and Population Status of the Pancake Tortoise (*Malacochersus tornieri*) in East Africa. (Denise Thompson and Michael Tuma, Co-investigators) Mohamed bin Zayed Conservation Fund.

**2018**

1. Western Chicken Turtle Metapopulations and Wetland Connectivity. (Donald McKnight was a co-P.I.) American Turtle Observatory.
2. Aquatic Turtle Community Composition in Artificial Wetlands versus Natural Oxbow Lakes in Southeastern Kansas. (Ethan Hollender, graduate student, was a co-author). Kansas Department of Wildlife, Parks, and Tourism (Chickadee Checkoff Program).

3. Surveys to Assess Suitability of Alligator Snapping Turtle (*Macrochelys temminckii*) Reintroduction Sites in Oklahoma. Oklahoma Department of Wildlife Conservation, (State Wildlife Grant).

**2017**

1. Geographical Variation in Daily and Seasonal Activity Patterns and Growth of Juvenile Alligator Snapping Turtles (Denise Thompson, co-investigator). Delta Foundation.
2. Growth, Reproduction, and Immigration in an Introduced Population of Alligator Snapping Turtles. Kansas Department of Wildlife, Parks, and Tourism.
3. Aquatic Turtle Community Composition in Artificial Wetlands versus Natural Oxbow Lakes in Southeastern Kansas (Ethan Hollender, graduate student, was a co-author). Kansas Department of Wildlife, Parks, and Tourism (Chickadee Checkoff Program).

**2016**

1. The Omnivore's Dilemma: Should I Eat Shit? (P. Schweiger and K. Sardina were co-authors) Delta Foundation.
2. Ecology of Western Chicken Turtles in Beaver Ponds at Boehler Seeps and Sandhills Preserve. The Nature Conservancy.

**2015**

1. Movements, Habitat Preferences, and Movement Patterns of Hatchling Alligator Snapping Turtles. (S.J. Spangler and D.M. Thompson were co-authors) Delta Foundation.
2. The Influence of Social Interactions and Physiology on Reproductive Success of the Alligator Snapping Turtle. (D.M. Thompson was P.I., funds were disbursed to Oklahoma State University) Riverbanks Zoo and Botanical Garden.

**2014**

1. Influence of social interactions on reproductive success and population genetics of the alligator snapping turtle. (D.M. Thompson, R.A. Van Den Bussche, and M.B. Lovern Co-investigators) Delta Foundation.
2. Recovery of the alligator snapping turtle (*Macrochelys temminckii*) in the Mississippi River Valley drainages of southern Illinois, Oklahoma, and Louisiana. (S. Ballard, J. Carr, and M. Dreslik Co-PIs)

**2013**

1. Health Assessment of Captive Alligator Snapping Turtles at Tishomingo National Fish Hatchery. Delta Foundation.
2. Assessing the Extent and Density of Chicken Turtle Populations in Southeastern Oklahoma. Oklahoma Department of Wildlife Conservation, State Wildlife Grant.
3. Turtle Conservation at Sequoyah National Wildlife Refuge. U.S. Fish and Wildlife Service.
4. Health Assessment of Free-ranging Turtles at Two National Wildlife Refuges. MSU Faculty Research Grant.

**2012**

1. Health Assessment of Free-ranging Turtles at Two National Wildlife Refuges. Delta Foundation.

2. Paternity Patterns in a Captive Population of Alligator Snapping Turtles. (D.M. Thompson, B.M. Fillmore, Co-PIs) Delta Foundation.
3. Turtle Community Ecology at Sequoyah National Wildlife Refuge. U.S. Fish and Wildlife Service. M. East, Co-PI.
4. Habitat Restoration and Population Assessment of Chicken Turtles and Crawfish Frogs at Bohler Seeps and Sandhills Preserve, Atoka County, Oklahoma. Oklahoma Department of Wildlife Conservation, State Wildlife Grant.

**2011**

1. Habitat Restoration and Population Assessment of Chicken Turtles and Crawfish Frogs at Bohler Seeps and Sandhills Preserve, Atoka County, Oklahoma. Delta Foundation.

**2010**

1. 2010–2011 Affiliates Award Competition for Missouri State University. Missouri Space Grant Consortium. M. Reed and D. Cornelison, Co-PIs.
2. A Survey of Alligator Snapping Turtles and Other Turtle Species in Two Northeastern Oklahoma Rivers. Oklahoma Department of Wildlife Conservation, State Wildlife Grant.

**2009**

1. Alligator Snapping Turtle Conservation: Efficacy of Reintroduction Efforts and Testing for Population Recovery. DELTA Foundation.
2. Nesting Patterns and Hatchling Recruitment in a Re-established Alligator Snapping Turtle Population. MSU Faculty Research Grant.

**2007**

1. Reintroduction of Alligator Snapping Turtles (*Macrochelys temminckii*) into Eastern Oklahoma River Drainages. DELTA Foundation.
2. Reintroduction of Alligator Snapping Turtles (*Macrochelys temminckii*) into Eastern Oklahoma River Drainages. Turtle Survival Alliance.
3. Reintroduction of Alligator Snapping Turtles to Eastern Oklahoma Rivers. Tulsa Zoo Conservation Program.

**2002**

1. Evaluating the effects of climate change and temperature-dependent sex determination in reptiles. Gaige Award, American Society of Ichthyologists and Herpetologists.
2. Testing the adaptive value of temperature-dependent sex determination in reptiles. Sigma Xi Grant-In-Aid of Research.
3. Testing the adaptive value of temperature sex determination in reptiles. Society of Integrative and Comparative Biology Grant-In-Aid of Research.
4. Conservation of the Alligator Snapping Turtle (*Macrochelys temminckii*): evaluating the effects of incubation temperature on a head-start program in southeastern Oklahoma. Chicago Herpetological Society.
5. Conservation of the Alligator Snapping Turtle (*Macrochelys temminckii*): evaluating the effects of incubation temperature on a head-start program in southeastern Oklahoma. Linneaus Fund, Chelonian Research Foundation. \$1,000.

**2000**

1. Physiological and behavioral variation in estivation among mud turtles (*Kinosternon* spp.). Theodore Roosevelt Memorial Fund, American Museum of Natural History.

**1996**

1. Movements and nesting ecology of western painted turtles (*Chrysemys picta bellii*) in an oxbow lake near the Willamette River, Oregon. Student Academic Affairs Board, Lewis and Clark College.

**INVITED SEMINARS:**

New England Zoo Conservation Committee (2020)  
Oklahoma Department of Wildlife Conservation (2017 ×2)  
Missouri University of Science and Technology, Rolla (2016)  
Missouri State University CNAS Public Lecture Series (2012)  
Missouri Master Naturalists, Springfield Plateau Chapter (2012)  
Springfield Nature Center Volunteer Meeting (2011)  
University of Arkansas, Little Rock (2011)  
St. Louis Herpetological Society (2011)  
Illinois Natural History Survey (2010)  
University of Missouri (2009)  
Missouri State University (2006)

**PRESENTATIONS:**

(\* indicates graduate student collaborators; \*\* indicates undergraduate collaborators)

**2021**

1. Buelow, G.L. \*, D.A. Penning, and D.B. Ligon. Boxed in: hinge-closing performance of Ornate Box Turtles. Einhellig Interdisciplinary Forum, Springfield, Missouri.
2. Mader, L. \*\*, A. Gagnon\*, D. Ligon, and D.A. Penning. Body temperature and bite performance in Alligator Snapping Turtles (*Macrochelys temminckii*). Undergraduate Research Forum, Missouri Southern State University, Joplin.

**2020**

1. Ligon, D.B. and D.M. Thompson. Hicatee reintroductions and research. Zoo New England, invited seminar.
2. Gagnon, A.H., D.A. Penning, and D.B. Ligon. A comparison of bite performance among captive and wild Alligator Snapping Turtles. Turtle Survival Alliance, virtual conference.
3. McKnight, D.T., E.C. Hollender, D.M. Thompson, T. Pop, J. Serano, J.A. Marlin, and D.B. Ligon. Field surveys of Central American River Turtles (*Dermatemys mawii*) in Belize. Turtle Survival Alliance, virtual conference.

**2019**

1. Voves, K. \*, D.M. Thompson, and D.B. Ligon. Assessing suitability of alligator snapping turtle (*Macrochelys temminckii*) reintroduction sites in eastern Oklahoma. Kansas Herpetological Association, Hays, Kansas.

2. Hannabass, S.\* , K. Voves, A. Dodd, S. Freudenthal, K. Backues, D.B. Ligon. A Comparison of Blood Chemistry of Alligator Snapping Turtles in Wild, Reintroduced, and Captive Populations. Kansas Herpetological Association, Hays, Kansas.
3. Hollender, E.C.\* , D.T. McKnight, and D.B. Ligon. Relocating traps within a wetland increases trapping success. Kansas Herpetological Association, Hays, Kansas.
4. Gagnon, A.H.\* , D.A. Penning, and D.B. Ligon. Bite performance of captive and wild Alligator Snapping Turtles. Missouri Herpetological Association, Steeleville, Missouri.
5. Grate, A.\*\* , D.M. Thompson, and D.B. Ligon. Assessing fertility patterns in a captive breeding population of alligator snapping turtles (*Macrochelys temminckii*). Turtle Survival Alliance, Tucson, Arizona. (won 1<sup>st</sup> place in poster contest)
6. Hollender, E.C.\* and D.B. Ligon. Common snapping turtle activity patterns. Turtle Survival Alliance, Tucson, Arizona.
7. Hollender, E.C.\* , D.T. McKnight, and D.B. Ligon. Relocating traps within a wetland increases trapping success. Turtle Survival Alliance, Tucson, Arizona.
8. Hannabass, S.\* , K. Voves, A. Dodd, S. Freudenthal, K. Backues, D.B. Ligon. A Comparison of Blood Chemistry of Alligator Snapping Turtles in Wild, Reintroduced, and Captive Populations. Turtle Survival Alliance, Tucson, Arizona.
9. Blasky, M.P.\* , B.M. Fillmore, and D.B. Ligon. Demographics and recruitment patterns in a reintroduced population of alligator snapping turtles (*Macrochelys temminckii*). Turtle Survival Alliance, Tucson, Arizona.
10. Voves, K.\* , D.M. Thompson, and D.B. Ligon. Assessing suitability of alligator snapping turtle (*Macrochelys temminckii*) reintroduction sites in eastern Oklahoma. Turtle Survival Alliance, Tucson, Arizona.
11. McKnight, D.T., E.C. Hollender, and D.B. Ligon. Where are the turtles? Looking for Western Chicken Turtles in Mississippi. Turtle Survival Alliance, Tucson, Arizona.
12. Voves, K.\* , D.M. Thompson, and D.B. Ligon. Assessing suitability of alligator snapping turtle (*Macrochelys temminckii*) reintroduction sites in eastern Oklahoma. Einhellig Interdisciplinary Forum, Springfield, MO.
13. Hollender, E.C.\* , D.T. McKnight, and D.B. Ligon. Relocating traps within a wetland increases trapping success. Einhellig Interdisciplinary Forum, Springfield, Missouri.
14. Hannabass, S.\* , K. Voves, A. Dodd, S. Freudenthal, K. Backues, D.B. Ligon. A Comparison of Blood Chemistry of Alligator Snapping Turtles in Wild, Reintroduced, and Captive Populations. Einhellig Interdisciplinary Forum, Springfield, Missouri.
15. Grate, A.\*\* , D.M. Thompson, and D.B. Ligon. Assessing fertility patterns in a captive breeding population of alligator snapping turtles (*Macrochelys temminckii*). CNAS Undergraduate Research Day, Missouri State University. (won 1<sup>st</sup> place in poster contest)
16. Grate, A.\*\* , D.M. Thompson, and D.B. Ligon. Assessing fertility patterns in a captive breeding population of alligator snapping turtles (*Macrochelys temminckii*). Missouri SLAMP Conference, Jefferson City, Missouri. (won 1<sup>st</sup> place in poster contest)
17. Hannabass, S.\* , K. Voves, A. Dodd, S. Freudenthal, K. Backues, D.B. Ligon. A Comparison of Blood Chemistry of Alligator Snapping Turtles in Wild, Reintroduced, and Captive Populations. Southwestern Association of Naturalists, Chihuahua, Mexico.

18. Voves, K. \*, D.M. Thompson, and D.B. Ligon. Assessing suitability of alligator snapping turtle (*Macrochelys temminckii*) reintroduction sites in eastern Oklahoma. Southwestern Association of Naturalists, Chihuahua, Mexico.
19. Voves, K. \* and D.B. Ligon. The application of side-scan sonar to quantify underwater turtle habitat. Southwestern Association of Naturalists, Chihuahua, Mexico.

## 2018

1. Penning, D.A., T. Pashia\*, K. Voves\*, and D.B. Ligon. Silver spoon snappers? Comparing bite forces in wild and head-started populations of alligator snapping turtles (*Macrochelys temminckii*). Kansas Herpetological Society Annual Meeting, Wichita, Kansas.
2. Voves, K. \*, D.M. Thompson, and D.B. Ligon. Assessing suitability of alligator snapping turtle (*Macrochelys temminckii*) reintroduction sites in eastern Oklahoma. Missouri Herpetological Association, Kirbyville, Missouri.
3. Hollender, E.C. \*, D.T. McKnight, and D.B. Ligon. Relocating traps within a wetland increases trapping success. Missouri Herpetological Association, Kirbyville, Missouri.
4. Ligon, D.B., D.T. McKnight, and J. Harmon\*. Distribution and habitat associations of western chicken turtles in southeastern Oklahoma. Turtle Survival Alliance, Fort Worth, Texas.
5. Ligon, D.B., D.T. McKnight, and J. Harmon\*. Distribution and habitat associations of western chicken turtles in southeastern Oklahoma. Southwest PARC, Oklahoma City, Oklahoma.
6. Dreslik, M.J., E.J. Kessler\*, J.L. Carr, D.B. Ligon, and S. Ballard. Mortality is too damned high: demographic challenges of alligator snapping turtle (*Macrochelys temminckii*) translocations. Turtle Survival Alliance, Fort Worth, Texas.
7. Dreslik, M.J., E.J. Kessler\*, J.L. Carr, D.B. Ligon, and S. Ballard. Post-release growth rates of translocated alligator snapping turtles (*Macrochelys temminckii*). Turtle Survival Alliance, Fort Worth, Texas.
8. Sardina, K.E. \*, D.M. Thompson \*, B.M. Fillmore, K. Graves, M.B. Lovern, and D.B. Ligon. Increasing alligator snapping turtle head-starting success through captive housing enhancement. Florida Herpetology Conference, Gainesville, Florida.
9. Sardina, K.E. \*, D.M. Thompson \*, R. Fillmore, B.M. Fillmore, K. Graves, and D.B. Ligon. Hypomelanism rates in a captive population of alligator snapping turtles. Florida Herpetology Conference, Gainesville, Florida.
10. Hollender, E.C. \*, T.L. Anthony\*, and D.B. Ligon. Motor boat injury rates and patterns in aquatic turtle communities. Florida Herpetology Conference, Gainesville, Florida.
11. Hollender, E.C. \* and D.B. Ligon. Aquatic turtle community composition in artificial and natural oxbow lakes in southeastern Kansas. Florida Herpetology Conference, Gainesville, Florida.
12. Tappmeyer, B.S. \*, D.M. Thompson\*, B.M. Fillmore, K. Graves, and D.B. Ligon. Body condition and body composition of captive and reintroduced alligator snapping turtles

(*Macrochelys temminckii*). Missouri Natural Resources Conference, Osage Beach, Missouri.

13. Hollender, E.C. \*, T.L. Anthony\*, and D.B. Ligon. Motor boat injury rates and patterns in aquatic turtle communities. Missouri Natural Resources Conference, Osage Beach, Missouri.
14. Sardina, K.E. \*, D.M. Thompson \*, R. Fillmore, B.M. Fillmore, K. Graves, and D.B. Ligon. Hypomelanism rates in a captive population of alligator snapping turtles. Missouri Natural Resources Conference, Osage Beach, Missouri.

**2017**

15. Hollender, E.C., T.L. Anthony, and D.B. Ligon. Motor boat injury rates and patterns in aquatic turtle communities. Southwestern Association of Naturalists, Lawton, Oklahoma.
16. Thompson, D.M., D.B. Ligon, J.C. Patton, and M Papes. Effects of life-history requirements on the distribution of a threatened reptile. Southwestern Association of Naturalists, Lawton, Oklahoma.
17. Riedle, J.D., T. Anthony, D.B. Ligon, and D.R. Edds. Spatial relationships and anthropogenic effects on river turtle assemblages in Kansas and Oklahoma. Southwestern Association of Naturalists, Lawton, Oklahoma.
18. Ligon, D.B., D.M. Thompson, K. Backues, B.M. Fillmore, and K. Graves. Fifteen years of head-starting alligator snapping turtles. Turtle Survival Alliance, Charleston, South Carolina.
19. Hollender, E.C., T.L. Anthony, and D.B. Ligon. Motor boat injury rates and patterns in aquatic turtle communities. Turtle Survival Alliance, Charleston, South Carolina.
20. Tappmeyer, B.S., D.M. Thompson, B.M. Fillmore, K. Graves, and D.B. Ligon. Body condition and body composition of captive and reintroduced alligator snapping turtles (*Macrochelys temminckii*). Turtle Survival Alliance, Charleston, South Carolina.
21. Spangler, S.J., D.M. Thompson, B.S. Edmond, B.M. Fillmore, K. Graves, and D.B. Ligon. Growth rates and activity patterns of alligator snapping turtle hatchlings. Turtle Survival Alliance, Charleston, South Carolina.
22. Sardina, K.E., D.M. Thompson, R. Fillmore, B.M. Fillmore, K. Graves, and D.B. Ligon. Hypomelanism rates in a captive population of alligator snapping turtles. Turtle Survival Alliance, Charleston, South Carolina.
23. D.T. McKnight and D.B. Ligon. Estivation site selection of western chicken turtles (*Deirochelys reticularia miaria*). Turtle Survival Alliance, Charleston, South Carolina.
24. Riedle, J.D., T. Anthony, D.B. Ligon, and D.R. Edds. Spatial relationships and anthropogenic effects on river turtle assemblages in Kansas and Oklahoma. Turtle Survival Alliance, Charleston, South Carolina.
25. McKnight, D.T., E.C. Hollender, H. Howell, and D.B. Ligon. Good vibrations: a novel method for sexing chelonians. Turtle Survival Alliance, Charleston, South Carolina.

**2016**



1. Thompson, D.M., D.B. Ligon, M. Papes. Assessing climatic constraints on the distribution of the alligator snapping turtle. Missouri Herpetological Association, Kirbyville, MO.
2. Riedle, J.D., D.B. Ligon, M. Howery, and M. Fullerton. Conservation and management of the alligator snapping turtle in Kansas and Oklahoma. Turtle Survival Alliance, New Orleans, Louisiana.
3. Spangler, S.J., D.M. Thompson, B.M. Fillmore, and D.B. Ligon. Fall activity patterns of hatchling alligator snapping turtles (*Macrochelys temminckii*). Turtle Survival Alliance, New Orleans, Louisiana.
4. Thompson, D.M., R. Fillmore, B.M. Fillmore, and D.B. Ligon. Reproductive investment patterns in a captive population of alligator snapping turtles (*Macrochelys temminckii*). Turtle Survival Alliance, New Orleans, Louisiana.
5. Thompson, D.M., D.B. Ligon, M. Papes. Assessing climatic constraints on the distribution of the alligator snapping turtle. Society of Integrative and Comparative Biology, Portland, OR.

## 2015

1. Kupec, C. and D.B. Ligon. Underwater and undetected: Aquatic respiratory capacity of a secretive aquatic turtle. Ecological Society of America, Baltimore, MD.
2. Ligon, D.B., B.M. Fillmore, J.L. Bosman\*, D.B. Moore, and D.M. Thompson\*. Alligator snapping turtle translocation: an 8<sup>th</sup> year progress report. Turtle Survival Alliance, Tucson, AZ.
3. Ligon, D.B., B.M. Fillmore, E.R. Sievers\*, D.M. Thompson\*, and C.R. Tucker\*. Two case studies of reintroduction as a tool for the conservation of turtles: ornate box turtles versus alligator snapping turtles. Turtle Survival Alliance, Tucson, AZ.
4. Thompson, D.M.\*, D.B. Ligon, and M. Papes. Assessing climatic constraints on the distribution of the alligator snapping turtle. Turtle Survival Alliance, Tucson, AZ.
5. Riedle, J.D., T. Anthony\*, D.B. Ligon. Local and regional variation in turtle assemblage structure. Turtle Survival Alliance, Tucson, AZ.

## 2014

1. Gann, E.\* and D.B. Ligon. Reintroduction ecology of alligator snapping turtles (*Macrochelys temminckii*) on the Kansas/Oklahoma border. Missouri Herpetological Association. Kirbyville, MO.
2. Harmon, J.R.\* , D.T. McKnight, and D.B. Ligon. Diet composition of the razor-backed musk turtle. Missouri Herpetological Association. Kirbyville, MO.
3. McKnight, D.T. and D.B. Ligon. Good vibrations: a novel method for sexing chelonians. Missouri Herpetological Association. Kirbyville, MO.
4. Kupec, C.\* and D.B. Ligon. Underwater and undetected: aquatic respiratory capacity of a secretive aquatic turtle. Missouri Herpetological Association. Kirbyville, MO.
5. Sievers, E.R.\* , C.R. Tucker, J.T. Strickland, D.K. Delaney, and D.B. Ligon. Reintroduction program evaluated using activity patterns and home range size of head-started *Terrepenne ornata*. Missouri Herpetological Association. Kirbyville, MO.
6. Thompson, D.M., D.B. Ligon, and R.A. Van Den Bussche. Assessing relatedness in a captive population of alligator snapping turtles. Turtle Survival Alliance, Orlando, FL.
7. Kupec, C. and D.B. Ligon. Temperature-dependent respiration activity for juvenile alligator snapping turtles. Turtle Survival Alliance, Orlando, FL.

8. Ligon, D.B., K. Backues, B.M. Fillmore, and D.M. Thompson\*. Ontogeny of gonad and genital morphology in juvenile alligator snapping turtles. Southwestern Association of Naturalists. Stillwater, OK.
9. Thompson, D.M.\*, D.B. Ligon, and R.A. Van Den Bussche. Assessing relatedness in a captive population of alligator snapping turtles (*Macrochelys temminckii*). Southwestern Association of Naturalists. Stillwater, OK.
10. McKnight, D.T.\*, J.R. Harmon\*\*, J.L. McKnight, and D.B. Ligon. The spring-summer nesting and activity patterns of the western chicken turtle (*Deirochelys reticularia miaria*). Southwestern Association of Naturalists. Stillwater, OK.
11. McKnight, D.T.\*, A.C. Jones\*, and D.B. Ligon. The omnivorous diet of the western chicken turtle (*Deirochelys reticularia miaria*). Southwestern Association of Naturalists. Stillwater, OK. *McKnight won 3<sup>rd</sup> place in the Clark Hubbs Student Poster Award competition.*
12. Sievers, E.R.\*, C.R. Tucker, J.T. Strickland, D.K. Delaney, and D.B. Ligon. Reintroduction programs evaluated using activity patterns and home range size of head-started *Terrapene ornata*. Southwestern Association of Naturalists. Stillwater, OK.
13. Harmon, J.R.\*\*\*, D.T. McKnight, and D.B. Ligon. Diet composition of the razor-backed musk turtle (*Sternotherus carinatus*). Southwestern Association of Naturalists. Stillwater, OK.
14. Thompson, D.M.\* and D.B. Ligon. Reproductive investment patters in a population of alligator snapping turtles (*Macrochelys temminckii*). Society of Integrative and Comparative Biology. Austin, TX.

## 2013

1. McKnight, D.T.\* and D.B. Ligon. The spring-summer nesting and activity patterns of the western chicken turtle (*Deirochelys reticularia miaria*). Turtle Survival Alliance, St. Louis, MO. *McKnight was Awarded the Best Student Presentation Award*
2. McKnight, D.T.\*, A.C. Jones\*, and D.B. Ligon. The omnivorous diet of the western chicken turtle (*Deirochelys reticularia miaria*). Turtle Survival Alliance, St. Louis, MO.
3. Thompson, D.M.\* and D.B. Ligon. Nest predation patterns in reintroduced Alligator Snapping Turtles. Turtle Survival Alliance, St. Louis, MO.
4. McKnight, D.T.\*, T. Dean\*\*, D.B. Ligon. An effective method for increasing the catch rate of pitfall traps. Joint Meeting of Ichthyologists and Herpetologists. Albuquerque, NM.
5. McKnight, D.T.\*, A.C. Jones\*, and D.B. Ligon. The omnivorous diet of the western chicken turtle (*Deirochelys reticularia miaria*). Joint Meeting of Ichthyologists and Herpetologists. Albuquerque, NM.
6. Anthony, T.\*, J.D. Riedle, B.M. Fillmore, and D.B. Ligon. Alligator snapping turtle reintroduction biology. MSU Graduate Interdisciplinary Forum. Springfield, MO.
7. McKnight, D.T.\*, A.C. Jones\*, and D.B. Ligon. The omnivorous diet of the western chicken turtle (*Deirochelys reticularia miaria*). MSU Graduate Interdisciplinary Forum. Springfield, MO.
8. McKnight, D.T.\*, T. Dean\*\*, D.B. Ligon. An effective method for increasing the catch rate of pitfall traps. MSU Graduate Interdisciplinary Forum. Springfield, MO.
9. McKnight, D.T.\*, T. Dean\*\*, D.B. Ligon. An effective method for increasing the catch rate of pitfall traps. Southwestern Association of Naturalists. Lake Charles, LA.
10. C.R. Tucker\*, J.T. Strickland, D.K. Delaney, and D.B. Ligon (presenter). Reintroduction Program Reveals Homing Behavior and a Previously Unknown Nesting Strategy in *Terrapene ornata*. Southwestern Association of Naturalists. Lake Charles, LA.

11. Radzio, T.A.\* , C. Tucker\* , J.T. Strickland, D.K. Delaney, and D.B. Ligon. Use of automated radio telemetry to detect ornate box turtle nesting activity. Freshwater Turtle, Tortoise, and Terrapin session of the International Sea Turtle Symposium, Baltimore, MD.
12. Thompson, D.M.\* , B.M. Fillmore, and D.B. Ligon. Nesting behavior and ecology of alligator snapping turtles. Society of Integrative and Comparative Biology. San Francisco, CA.
13. Thompson, D.M.\* and D.B. Ligon. Rocky Raccoon Must Die: Nest Predation Patterns in a Reintroduced Population of Alligator Snapping Turtles. Society of Integrative and Comparative Biology. San Francisco, CA.

## 2012

1. Thompson, D.M.\* , B.M. Fillmore, and D.B. Ligon. 2012. Nesting behavior and ecology of alligator snapping turtles. Missouri Herpetological Association. Jefferson City, MO.
2. Anthony, T.\* , J.D. Riedle, and D. B. Ligon. 2012. Reintroduction of a long-lived species: the alligator snapping turtle. Missouri Herpetological Association. Jefferson City, MO.
3. Hollender, E.\*\* , T. Anthony\* , and D.B. Ligon. 2012. The effects of recreational boat traffic on injury rates in freshwater turtles in northeastern Oklahoma. Missouri Herpetological Association. Jefferson City, MO.
4. McKnight, D.T.\* , T.L. Dean\*\* , and D.B. Ligon. 2012. An effective method for increasing the catch rate of pitfall traps. Missouri Herpetological Association. Jefferson City, MO.
5. Ligon, D.B., M.B. East\* , and J.D. Riedle. 2012. The importance of maintaining long-term studies when monitoring long-lived organisms: lessons from a medium-term study. Turtle Survival Alliance, Tucson, AZ.
6. Thompson, D.M.\* , B.M. Fillmore, and D.B. Ligon. 2012. Nesting behavior and ecology of alligator snapping turtles. Turtle Survival Alliance, Tucson, AZ.
7. Hollender, E.C.\*\* , T.L. Anthony\* , and D.B. Ligon. 2012. Injury rates in freshwater turtles in northeastern Oklahoma. Missouri State University College of Natural and Applied Sciences Undergraduate Research Forum. Springfield, MO.
8. Riedle, J.D., M.B. East\* , and D.B. Ligon. 2012. The importance of maintaining long-term studies when monitoring long-lived vertebrates. Missouri Academy of Sciences Annual Meeting, Columbia, MO.
9. Anthony, T.L.\* , D.B. Ligon, and J.D. Riedle. 2012. Freshwater turtle communities in three rivers in northeastern Oklahoma. Missouri State University Graduate Interdisciplinary Forum. Springfield, MO.
10. Tucker, C.R.\* , Ligon, D.B., Radzio, T.A., Strickland, J.T. and Delaney, D.K. 2012. Use of automated telemetry to detect nesting activity in Ornate Box Turtles. Missouri State University Graduate Interdisciplinary Forum. Springfield, MO.
11. East, M.B.\* , Riedle, J.D. and D.B. Ligon. 2012. Changes in Aquatic Turtle Community Structure at Sequoyah National Wildlife Refuge, Oklahoma: a Decadal Survey. Missouri State University Graduate Interdisciplinary Forum. Springfield, MO.
12. Thompson, D.M.\* and D.B. Ligon. 2012. Rocky Raccoon Must Die: Nest Predation Patterns in a Reintroduced Population of Alligator Snapping Turtles. Missouri State University Graduate Interdisciplinary Forum. Springfield, MO.
13. Ligon, D.B., T. Sanders\* , and R. Kazmaier. 2012. Thermal ecology of yellow mud turtles (*Kinosternon flavescens*) during hibernation. Society of Integrative and Comparative Biology. Charleston, SC.

## 2011

1. Anthony, T.\* and D.B. Ligon. 2011. Freshwater Turtle community Composition and Microhabitat Preferences among Three Rivers in Northeastern Oklahoma. Kansas Herpetological Society. Wichita, KS.
2. Tucker, C.\* , T.A. Radzio, J.T. Strickland, D.B. Ligon, and D.K. Delaney. 2011. Can Automated Radio Telemetry Quantify Ornate Box Turtle Activity and Nesting Patterns? Kansas Herpetological Society. Wichita, KS.
3. Thompson, D.M.\* and D.B. Ligon. 2011. Rocky Raccoon Must Die: Nest Predation Patterns in a Reintroduced Population of Alligator Snapping Turtles. Kansas Herpetological Society. Wichita, KS.
4. Riedle, J.D. and D.B. Ligon. 2011. Conservation of Alligator Snapping Turtles in the Mississippi River Drainage, and a Review of the Species' Status in Missouri. Missouri Herpetological Association. Steelville, MO.
5. Anthony, T.\* and D.B. Ligon. 2011. Freshwater Turtle Species Composition and Microhabitat Preferences among Three Rivers in Northeastern Oklahoma. Missouri Herpetological Association. Steelville, MO.
6. East, M.B.\* and D.B. Ligon. 2011. Diet and feeding behavior of juvenile alligator snapping turtles (*Macrochelys temminckii*) in eastern Oklahoma. Missouri Herpetological Association. Steelville, MO.
7. Radzio, T.A., C. Tucker\*, J.T. Strickland, D.B. Ligon, and D.K. Delaney. 2011. Can Automated Radio Telemetry Quantify Ornate Box Turtle Activity and Nesting Patterns? Missouri Herpetological Association. Steelville, MO.
8. Thompson, D.M.\* and D.B. Ligon. 2011. Rocky Raccoon Must Die: Nest Predation Patterns in a Reintroduced Population of Alligator Snapping Turtles. Missouri Herpetological Association. Steelville, MO.
9. Ligon, D.B., T. Sanders\*, and R. Kazmaier. 2011. What turtles do when they ain't doing nothing: winter ecology of the yellow mud turtle (*Kinosternon flavescens*). Turtle Survival Alliance. Orlando, FL.
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