

DREW R. DAVIS

Associate Research Scientist

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EDUCATION:

- 2012–2018 **PH.D., BIOLOGICAL SCIENCES:** UNIVERSITY OF SOUTH DAKOTA
The Effects of Agricultural Tile Drainage on Wetland Habitats and Species
- 2010–2012 **M.S., POPULATION AND CONSERVATION BIOLOGY:** TEXAS STATE UNIVERSITY
Predator–Prey Interactions in the San Marcos Salamander (*Eurycea nana*): Predator Generalization and Stress Hormones in Response to Introduced Predators
- 2005–2009 **B.S., BIOLOGY (ECOLOGY, EVOLUTION, BEHAVIOR):** UNIVERSITY OF TEXAS AT AUSTIN
Morphological Variation in the Western Slimy Salamander (*Plethodon albagula*)

ACADEMIC APPOINTMENTS:

- 2018–present **ASSOCIATE RESEARCH SCIENTIST**, School of Earth, Environmental, and Marine Sciences, University of Texas Rio Grande Valley
- 2018–present **RESEARCH AFFILIATE–POSTDOCTORAL FELLOW**, Biodiversity Collections, Department of Integrative Biology, University of Texas at Austin
- 2018–present **RESEARCH COLLABORATOR**, Division of Amphibians and Reptiles, Department of Vertebrate Zoology, National Museum of Natural History, Smithsonian Institution
- 2018 **ADJUNCT FACULTY**, Division of Natural and Applied Science, Northern Virginia Community College–Loudoun

PUBLICATIONS:

* undergraduate author

36. **DAVIS DR**, FERGUSON KJ*, SCHWARZ MS, KERBY JL. 2019. Effects of agricultural pollutants on stress hormones and viral infection in larval salamanders. *Wetlands* 40:577–586.
35. CHRISTIANSEN JL, **DAVIS DR**, JACOBSON ER, LADUC TJ. 2020. A potential new shell disease process revealed by a long-term field study of the yellow mud turtle, *Kinosternon flavescens*, in Texas. *Journal of Herpetology* 54:1–8.
34. SMITH SN*, WATTERS JL, ELLSWORTH ED, **DAVIS DR**, SILER CD. 2019. Assessment of *Batrachochytrium dendrobatidis* and ranavirus among wild amphibians from four Philippine islands. *Herpetological Review* 50:729–734.
33. MILLIKIN AR, WOODLEY SK, **DAVIS DR**, MOORE IT, ANDERSON JT. 2019. Water-borne corticosterone and plasma corticosterone are not correlated in spotted salamanders. *Ecology and Evolution* 9:13942–13953.
32. NARAYAN EJ, FORSBURG ZR, **DAVIS DR**, GABOR CR. 2019. Non-invasive methods for measuring and monitoring stress physiology in imperiled amphibians. *Frontiers in Ecology and Evolution* 7:431.
31. SMITH SN*, WATTERS JL, MARHANKA EC*, McMILLIN SL*, **DAVIS DR**, FARKAS JK, SILER CD. 2019. Investigating ranavirus prevalence in central Oklahoma, USA, amphibians. *Herpetological Review* 50:508–512.
30. **DAVIS DR**, FARKAS JK, KRUISSELBRINK TR*, WATTERS JL, ELLSWORTH ED, KERBY JL, SILER CD. 2019. Prevalence and distribution of ranavirus in amphibians from southeastern Oklahoma, USA. *Herpetological Conservation and Biology* 14:360–369.
29. WATTERS JL, McMILLIN SL*, MARHANKA EC*, **DAVIS DR**, FARKAS JK, KERBY JL, SILER CD. 2019. Seasonality in *Batrachochytrium dendrobatidis* detection in amphibians in central Oklahoma, USA. *Journal of Zoo and Wildlife Medicine* 50:492–497.
28. MILLIKIN AR, WOODLEY SK, **DAVIS DR**, ANDERSON JT. 2019. Habitat characteristics in created vernal pools impact spotted salamander water-borne corticosterone levels. *Wetlands* 39:803–814.

27. BUTTERFIELD MM*, **DAVIS DR**, MADISON JD, KERBY JL. 2019. Surveillance of *Ranavirus* in False Map Turtles (*Graptemys pseudogeographica*) along the lower Missouri River, USA. *Herpetological Review* 50:76–78.
26. MADISON JD, AUSTIN SD*, **DAVIS DR**, KERBY JL. 2018. Bacterial microbiota response in *Graptemys pseudogeographica* to captivity and Roundup® exposure. *Copeia* 106:580–588.
25. WATTERS JL, **DAVIS DR**, YURI T, SILER CD. 2018. Concurrent infection of *Batrachochytrium dendrobatidis* and ranavirus among native amphibians from northeastern Oklahoma, USA. *Journal of Aquatic Animal Health* 30:291–301.
24. SILER CD, HEITZ BB*, **DAVIS DR**, FREITAS ES, AOWPHOL A, TERMPRAYOON K, GRISMER LL. 2018. New supple skink, genus *Lygosoma* (Reptilia: Squamata: Scincidae), from Indochina and redescription of *Lygosoma quadrupes* (Linnaeus, 1766). *Journal of Herpetology* 52:332–347.
23. **DAVIS DR**, LaDUC TJ. 2018. Amphibians and reptiles of C. E. Miller Ranch and the Sierra Vieja, Chihuahuan Desert, Texas, USA. *ZooKeys* 735:97–130.
 - Corrigenda: *ZooKeys* 744:149.
22. GABOR CR, **DAVIS DR**, KIM DS, ZABIEREK KC, BENDIK NF. 2018. Urbanization is associated with elevated corticosterone in Jollyville Plateau salamanders. *Ecological Indicators* 85:229–235.
21. SILER CD, **DAVIS DR**, WATTERS JL, FREITAS ES, GRIFFITH OW, BINADAY JWB*, LOBOS AHT*, AMARGA AKS, BROWN RM. 2017. The first record of the *Pseudogekko brevipes* Complex from the northern Philippines, with description of a new species. *Herpetologica* 73:162–175.
20. **DAVIS DR**, DESANTIS DL, GABOR CR. 2017. Antipredator behavior of the Barton Springs salamander (*Eurycea sosorum*) in response to aquatic invertebrates: potential consequences of habitat restoration. *Hydrobiologia* 795:129–137.
19. MARHANKA EC*, WATTERS JL, HURON NA, McMILLIN SL*, WINFREY CC*, CURTIS DJ, **DAVIS DR**, FARKAS JK, KERBY JL, SILER CD. 2017. Detection of high prevalence of *Batrachochytrium dendrobatidis* in amphibians from southern Oklahoma, USA. *Herpetological Review* 48:70–74.
18. SILER CD, **DAVIS DR**, DIEMOS AC, GUINTO F, WHITSETT C*, BROWN RM. 2016. A new species of *Pseudogekko* (Squamata: Gekkonidae) from the Romblon Island Group, central Philippines. *Zootaxa* 4139:248–260.
17. **DAVIS DR**, GEHEBER AD, WATTERS JL, PENROD ML*, FELLER KD, ASHFORD A*, KOURI J*, NGUYEN D*, SHAUBERGER K*, SHEATSLEY K*, WINFREY C*, WONG R*, SANGUILA MB, BROWN RM, SILER CD. 2016. Additions to Philippine slender skinks of the *Brachymeles bonitae* Complex (Reptilia: Squamata: Scincidae) III: a new species from Tablas Island. *Zootaxa* 4132:30–43.
16. SILER CD, **DAVIS DR**, FREITAS ES, HURON NA, GEHEBER AD, WATTERS JL, PENROD ML*, PAPEŞ M, AMREIN A*, ANWAR A*, COOPER D*, HEIN T*, MANNING A*, PATEL N*, PINAROC L*, DIEMOS AC, DIEMOS ML, OLIVEROS CH, BROWN RM. 2016. Additions to Philippine slender skinks of the *Brachymeles bonitae* Complex (Reptilia: Squamata: Scincidae) II: a new species from the northern Philippines. *Zootaxa* 4132:15–29.
15. GEHEBER AD, **DAVIS DR**, WATTERS JL, PENROD ML*, FELLER KD, DAVEY CS*, ELLSWORTH ED*, FLANAGAN RL*, HEITZ BD*, MOORE T*, NGUYEN MDC*, ROBERTS A*, SUTTON J*, SANGUILA MB, LINKEM CW, BROWN RM, SILER CD. 2016. Additions to Philippine slender skinks of the *Brachymeles bonitae* Complex (Reptilia: Squamata: Scincidae) I: a new species from Lubang Island. *Zootaxa* 4132:1–14.
14. JONGSMA GFM, KAYA AB, YOGA J-A, MBEGA J-D, MVE BEH J-H, TOBI E, EMRICH AM, DIXON-MACCALLUM GP, **DAVIS DR**, KERBY JL, BLACKBURN DC. 2016. Widespread presence and high prevalence of *Batrachochytrium dendrobatidis* in Gabon. *Herpetological Review* 47:227–230.
13. WATTERS JL, FLANAGAN RL*, **DAVIS DR**, FARKAS JK, KERBY JL, LABONTE MJ*, PENROD ML*, SILER CD. 2016. Screening natural history collections for historical presence of *Batrachochytrium dendrobatidis* in anurans from Oklahoma, USA. *Herpetological Review* 47:214–220.
12. GABOR CR, ZABIEREK KC, KIM DS, ALBERICI DA BARBIANO L, MONDELLI MJ, BENDIK NF, **DAVIS DR**. 2016. A non-invasive water-borne assay of stress hormones in aquatic salamanders. *Copeia* 104:172–181.
11. **DAVIS DR**, KERBY JL. 2016. First detection of ranavirus in amphibians from Nebraska, USA. *Herpetological Review* 47:46–50.

10. DIOSMOS AC, WATTERS JL, HURON NA, **DAVIS DR**, ALCALA AC, CROMBIE RI, AFUANG LE, GEE-DAS G, SISON RV, SANGUILA MB, PENROD ML*, LABONTE MJ*, DAVEY CS*, LEONE EA, DIOSMOS ML, SY EY, WELTON LJ, BROWN RM, SILER CD. 2015. Amphibians of the Philippines, part I: checklist of the species. *Proceedings of the California Academy of Sciences* 62:457–539.
9. **DAVIS DR**, WATTERS JL, KÖHLER G, WHITSETT C, HURON NA, BROWN RM, DIOSMOS AC, SILER CD. 2015. Redescription of the rare Philippine false gecko *Pseudogekko brevipes* (Reptilia: Squamata: Gekkonidae) and description of a new species. *Zootaxa* 4020:357–374.
8. **DAVIS DR**, GABOR CR. 2015. Behavioral and physiological antipredator responses of the San Marcos salamander, *Eurycea nana*. *Physiology & Behavior* 139:145–149.
7. SILER CD, WELTON LJ, **DAVIS DR**, WATTERS JL, DAVEY CS*, DIOSMOS AC, DIOSMOS ML, BROWN RM. 2014. Taxonomic revision of the *Pseudogekko compresicorpus* Complex (Reptilia: Squamata: Gekkonidae), with descriptions of three new species. *Herpetological Monographs* 28:110–139.
6. **DAVIS DR**, FELLER KD, BROWN RM, SILER CD. 2014. Evaluating the diversity of Philippine slender skinks of the *Brachymeles bonitae* Complex (Reptilia: Squamata: Scincidae): redescription of *B. tridactylus* and descriptions of two new species. *Journal of Herpetology* 48:480–494.
5. SILER CD, DECECCHI TA, MERKORD CL, **DAVIS DR**, CHRISTIANI TJ*, BROWN RM. 2014. Cryptic diversity and population genetic structure in the rare, endemic, forest-obligate, slender geckos of the Philippines. *Molecular Phylogenetics and Evolution* 70:204–209.
4. DESANTIS DL*, **DAVIS DR**, GABOR CR. 2013. Chemically mediated predator avoidance in the Barton Springs salamander (*Eurycea sosorum*). *Herpetologica* 69:291–297.
3. GABOR CR, BOSCH J, FRIES JN, **DAVIS DR**. 2013. A non-invasive stress assay using water-borne hormones in amphibians. *Amphibia-Reptilia* 34:151–162.
2. **DAVIS DR**, EPP KJ, GABOR CR. 2012. Predator generalization decreases the effect of introduced fish predators in the San Marcos salamander, *Eurycea nana*. *Ethology* 118:1191–1197.
1. **DAVIS DR***, PAULY GB. 2011. Morphological variation among populations of the western slimy salamander on the Edwards Plateau of central Texas. *Copeia* 2011:102–113.

BOOKS:

1. KIESOW AM, **DAVIS DR**. *In press*. Field Guide to the Amphibians and Reptiles of South Dakota. Second edition. South Dakota Department of Game, Fish and Parks, Pierre, South Dakota.

SHORTER CONTRIBUTIONS:

* undergraduate author

56. OYERVIDES M, SOSA-GUTIERREZ CG, **DAVIS DR**. 2020. Geographic distribution: *Ophisaurus attenuatus* (Slender Glass Lizard). *Herpetological Review* 51:541.
55. ROBINSON PS, **DAVIS DR**, KLINE RJ. 2020. Geographic distribution: *Notophthalmus meridionalis* (Black-spotted Newt). *Herpetological Review* 51:531.
54. SKADSEN DR, **DAVIS DR**. 2020. A population of wood frogs (*Rana sylvatica*) in southwestern Roberts County, and a new county record for Grant County, South Dakota. *The Prairie Naturalist* 52:31–32.
53. **DAVIS DR**. 2020. Frogs and toads of South Dakota. *South Dakota Conservation Kids* 87(2):2–3.
52. ROBINSON PS, **DAVIS DR**. 2020. *Masticophis flagellum* (Coachwhip). Diet. *Herpetological Review* 51:148.
51. **DAVIS DR**, SKADSEN DR. 2020. Distributional records of amphibians and reptiles from the Prairie Coteau, South Dakota, USA. *Herpetological Review* 51:89–90.
50. RASH RS, **DAVIS DR**. 2020. Geographic distribution: *Rana sphenocephala* (Southern Leopard Frog). *Herpetological Review* 51:71–72.
49. BOGOLIN AP, **DAVIS DR**, RAHMAN AF. 2019. *Pseudemys gorzugi* (Rio Grande Cooter). Predation. *Herpetological Review* 50:775.
48. **DAVIS DR**, FARKAS JK. 2019. *Chrysemys picta* (Painted Turtle). Basking Behavior. *Herpetological Review* 50:770.

47. **DAVIS DR.** 2019. Geographic distribution: *Hemidactylus turcicus* (Mediterranean Gecko). *Herpetological Review* 50:746–747.
46. BOGOLIN AP, **DAVIS DR.**, RUPPERT KM, KLINE RJ, RAHMAN AF. 2019. Geographic distribution: *Pseudemys gorzugi* (Rio Grande Cooter). *Herpetological Review* 50:745.
45. RUPPERT KM, **DAVIS DR.** 2019. Geographic distribution: *Eleutherodactylus cystignathoides* (Rio Grande Chirping Frog). *Herpetological Review* 50:744.
44. **DAVIS DR.**, TURNER T, MARBACH KM, CRUMP PS, KLINE RJ. 2019. Geographic distribution: *Siren intermedia* (Lesser Siren). *Herpetological Review* 50:520.
43. **DAVIS DR.**, BACKLUND DC. 2019. *Rana pipiens* (Northern Leopard Frog). Predation. *Herpetological Review* 50:342–343.
42. FARKAS JK, **DAVIS DR.** 2019. Geographic distribution: *Apalone mutica* (Smooth Softshell). *Herpetological Review* 50:323–324.
41. **DAVIS DR.**, LADUC TJ. 2019. Geographic distribution: *Hemidactylus* aff. *parvimaclatus* (Sri Lankan House Gecko). *Herpetological Review* 50:102.
40. **DAVIS DR.**, RUPPERT KM, KLINE RJ. 2019. Geographic distribution: *Siren intermedia* (Lesser Siren). *Herpetological Review* 50:95–96.
39. **DAVIS DR.** 2018. Red-bellied Snake (*Storeria occipitomaculata*) copulation in South Dakota. *The Prairie Naturalist* 50:72–73.
38. **DAVIS DR.** 2018. Distributional records of amphibians and reptiles from the lower James River Valley, South Dakota, USA. *Herpetological Review* 49:720–721.
37. BARRON II JC, GOTTE SW, COLLETTE BB, McDIARMID RW, MULCAHY DG, **DAVIS DR.** 2018. Geographic distribution: *Scaphiopus holbrookii* (Eastern Spadefoot). *Herpetological Review* 49:710.
36. **DAVIS DR.**, FARKAS JK. 2018. New county records of amphibians and reptiles from South Dakota, USA from 2017. *Herpetological Review* 49:288–295.
35. **DAVIS DR.** 2018. Mapping amphibians and reptiles of South Dakota. *South Dakota Conservation Digest* 85:34–37.
34. **DAVIS DR.** 2018. Geographic distribution: *Heterodon platirhinos* (Eastern Hog-nosed Snake). *Herpetological Review* 49:76.
33. AUSTIN SD*, KERBY JL, **DAVIS DR.** 2017. Distributional records of amphibians and reptiles from Lake Oahe, South Dakota, USA. *Herpetological Review* 48:817–820.
32. **DAVIS DR.**, CARDWELL MD. 2017. *Crotalus scutulatus* (Mohave Rattlesnake). Arboreality and Climbing Behavior. *Herpetological Review* 48:670–671.
31. **DAVIS DR.**, LADUC TJ. 2017. *Scaphiopus couchii* (Couch's Spadefoot). Aggregation. *Herpetological Review* 48:613.
30. TEGGE SM, **DAVIS DR.** 2017. Geographic distribution: *Spea bombifrons* (Plains Spadefoot). *Herpetological Review* 48:586–587.
29. **DAVIS DR.**, LADUC TJ. 2017. *Hypsiglena jani* (Chihuahuan Nightsnake). Diet and Prey Size. *Herpetological Review* 48:450–451.
28. **DAVIS DR.**, FARKAS JK, DAHLHOFF MW, KERBY JL. 2017. *Coluber constrictor* (North American Racer). Predation. *Herpetological Review* 48:446–447.
27. **DAVIS DR.**, FARKAS JK, JOHANNSEN RE*, MALTAVERNE GA*. 2017. Historic amphibian and reptile county records from South Dakota, USA. *Herpetological Review* 48:394–406.
26. **DAVIS DR.**, BACKLUND DC. 2017. *Chelydra serpentina* (Snapping Turtle). Diet. *Herpetological Review* 48:174–175.
25. **DAVIS DR.**, FARKAS JK, JOHANNSEN RE*, LEONARD KM*, KERBY JL. 2017. Distributional records of amphibians and reptiles from South Dakota, USA. *Herpetological Review* 48:133–137.
24. **DAVIS DR.**, ZIMMER MB. 2017. Geographic distribution: *Opheodrys vernalis* (Smooth Greensnake). *Herpetological Review* 48:129–130.

23. FARKAS JK, **DAVIS DR.** 2017. Geographic distribution: *Apalone spinifera* (Spiny Softshell). *Herpetological Review* 48:122.
22. FARKAS JK, **DAVIS DR.** 2017. Geographic distribution: *Ambystoma laterale* (Blue-spotted Salamander). *Herpetological Review* 48:117.
21. **DAVIS DR.** JACKSON LM, SIDMONS SR, KERBY JL. 2016. *Rana blairi* (Plains Leopard Frog). Reproduction. *Herpetological Review* 47:648.
20. **DAVIS DR.** DILLIARD KA. 2016. Historic amphibian and reptile county records from the A. Jewell Schock Museum of Natural History at Wayne State College. *Herpetological Review* 47:635–637.
19. **DAVIS DR.** 2016. Geographic distribution: *Thamnophis sirtalis* (Common Gartersnake). *Herpetological Review* 47:429.
18. **DAVIS DR.** 2016. Geographic distribution: *Coluber constrictor* (North American Racer). *Herpetological Review* 47:425–426.
17. **DAVIS DR.** 2016. Geographic distribution: *Pseudacris maculata* (Boreal Chorus Frog). *Herpetological Review* 47:420.
16. **DAVIS DR.** FERGUSON KJ*, KOCH AD*, BERG EA*, VLCEK JR*, KERBY JL. 2016. New amphibian and reptile county records from eastern South Dakota, USA. *Herpetological Review* 47:267–270.
15. JOHANNSEN RE*, KERBY JL, **DAVIS DR.** 2016. Geographic distribution: *Coluber constrictor* (North American Racer). *Herpetological Review* 47:261.
14. JOHANNSEN RE*, KERBY JL, **DAVIS DR.** 2016. Geographic distribution: *Sceloporus consobrinus* (Prairie Lizard). *Herpetological Review* 47:260.
13. **DAVIS DR.** DAVIS DL. 2016. Geographic distribution: *Hemidactylus turcicus* (Mediterranean Gecko). *Herpetological Review* 47:81.
12. **DAVIS DR.** SANGUILA MB, BROWN JC, BROWN RM, COBB KA, BERGMANN P, MORINAGA G, HURON NA, WATTERS JL, SILER CD. 2015. *Pseudogekko ditoy* (Leyte Diminutive False Gecko). Morphology. *Herpetological Review* 46:634–635.
11. STEWART JW, **DAVIS DR.** 2015. Geographic distribution: *Thamnophis radix* (Plains Gartersnake). *Herpetological Review* 46:222.
10. SIDMONS SR, MILLIKIN AR, **DAVIS DR.** 2015. Geographic distribution: *Coluber constrictor* (North American Racer). *Herpetological Review* 46:218–219.
9. MILLIKIN AR, KOCH AD*, **DAVIS DR.** 2014. Geographic distribution: *Chrysemys picta* (Painted Turtle). *Herpetological Review* 45:656.
8. OWEN JD, MARSHALL TL, **DAVIS DR.** 2014. Geographic distribution: *Eleutherodactylus (Syrrhophus) marnockii* (Cliff Chirping Frog). *Herpetological Review* 45:652.
7. **DAVIS DR.** SIDMONS SR, KERBY JL. 2014. New amphibian and reptile county records from eastern Nebraska, USA. *Herpetological Review* 45:99–100.
6. MUNES RJ, **DAVIS DR.** 2014. Geographic distribution: *Apalone mutica* (Smooth Softshell). *Herpetological Review* 45:88.
5. **DAVIS DR.** 2013. Geographic distribution: *Lampropeltis calligaster* (Yellow-bellied Kingsnake). *Herpetological Review* 44:275.
4. **DAVIS DR.** DESANTIS DL*. 2012. Geographic distribution: *Pantherophis slowinskii* (Slowinski's Cornsnake). *Herpetological Review* 43:449.
 - Erratum: *Herpetological Review* 43:623.
3. **DAVIS DR.** KIM DS, NEELON DP. 2012. Geographic distribution: *Nerodia fasciata* (Southern Watersnake). *Herpetological Review* 43:449.
2. **DAVIS DR.***, LADUC TJ. 2011. *Crotalus viridis* (Prairie Rattlesnake). Diet. *Herpetological Review* 42:99.
1. **DAVIS DR.***, BOX B, HIBBITTS TJ. 2008. *Trimorphodon wilkinsonii* (Chihuahuan Lyre Snake). Arboreal behavior. *Herpetological Review* 39:102.

TECHNICAL REPORTS:

6. **DAVIS DR**, BOGOLIN AP, RAHMAN MS, KLINE RJ, RAHMAN AF. 2020. Development and application of a novel suite of field survey methods to inform conservation of the Rio Grande Cooter, *Pseudemys gorzugi*. Final report to Texas Comptroller of Public Accounts. 89 pp.
5. **DAVIS DR**. 2020. Amphibians and Reptiles of South Dakota website report: 2019. Final report to South Dakota Game, Fish and Parks. 14 pp.
4. SCHWARZ MS, **DAVIS DR**, KERBY JL. 2018. An evaluation of agricultural tile drainage exposure and effects to wetland species and habitat within Madison Wetland Management District, South Dakota. Final report to U.S. Fish and Wildlife Service. xv + 242 pp.
3. **DAVIS DR**. 2018. Surveys for the state-endangered lined snake (*Tropidoclonion lineatum*) along the lower James River valley. Final report to South Dakota Game, Fish and Parks. 25 pp.
2. **DAVIS DR**, SMITH CE, BECKER D. 2018. Creating online resources to engage South Dakota citizens in amphibian and reptile identification, distribution, and conservation. Final report to South Dakota Game, Fish and Parks. 49 pp.
1. **DAVIS DR**. 2014. Detection of the lined snake (*Tropidoclonion lineatum*) in the Cactus Hills area of South Dakota. Final report to HDR, Inc. 15 pp.

MANUSCRIPTS IN PRESS AND IN REVIEW:

* undergraduate author

10. RUPPERT KM, **DAVIS DR**, KLINE RJ. *In review*. Development and assessment of an environmental DNA assay for a cryptic aquatic amphibian. *Science of the Total Environment*.
9. **DAVIS DR**. *In review*. Checklist and distributions of South Dakota amphibians and reptiles. *Great Plains Research*.
8. **DAVIS DR**, SCHWARZ MS, KERBY JL. *In review*. Agricultural tile drain effluent contains contaminants that threatened wetland biodiversity. *Proceedings of the National Academy of Sciences of USA*.
7. BOGOLIN AP, **DAVIS DR**, KLINE RJ, RAHMAN FA. *In review*. On the use of drone-mounted high-resolution cameras for surveys of freshwater turtle species. *Journal of Wildlife Management*.
6. **DAVIS DR**, CHRISTIANSEN JL, LADUC TJ. *In review*. Bizarre shell abnormalities in the Sonoran mud turtle, *Kinosternon sonoriense*, with evidence for a mechanism of origin. *Herpetological Review*.
5. BARE EA, **DAVIS DR**, KLINE RJ. *In review*. Developing an ecological niche model for predicting the distribution of black-spotted newts (*Notophthalmus meridionalis*). *Ecology and Evolution*.
4. MADISON JD, BUTTERFIELD MM, **DAVIS DR**, KERBY JL. *In review*. Spatial dynamics of false map turtle (*Graptemys pseudogeographica*) bacterial microbiota in the lower Missouri River, USA. *Journal of Herpetology*.
3. GUADIANA CJ, ROBINSON PS, SCHALK MS, **DAVIS DR**. *In press*. New county records of amphibians and reptiles from south Texas, USA. *Herpetological Review*.
2. **DAVIS DR**, SCHARDIN B. *In press*. *Opheodrys vernalis* (Smooth Greensnake). Predation. *Herpetological Review*.
1. SILER CD, FREITAS ES, MAGUIRE SN*, **DAVIS DR**, WATTERS JL, DIEMOS AC, BROWN RM. *In press*. Additions to Philippine slender skinks of the *Brachymeles bonitae* complex (Reptilia: Squamata: Scincidae) IV: resurrection and redescription of *Brachymeles burksi*. *Philippine Journal of Systematic Biology*.

RESEARCH GRANTS:

total awarded: \$226,182

25. New resources and continued engagement to better inform the public on the amphibians and reptiles of South Dakota
South Dakota Game, Fish and Parks: Wildlife Diversity Small Grants (\$5000); March 2020
24. Revising the *Field Guide to Amphibians and Reptiles of South Dakota*
South Dakota Game, Fish and Parks (\$5000); July 2019
23. A re-investigation of the corn snakes (*Pantherophis guttatus* complex) in Texas using genomics and morphology
Texas Herpetological Society: Grants-in-Herpetology (\$500); October 2018
22. Surveys for the state-endangered Lined Snake (*Tropidoclonion lineatum*) along the lower James River valley
South Dakota Game, Fish and Parks: Wildlife Diversity Small Grants (\$4995); March 2018
21. Understanding the effects of the herbicide glyphosate on the microbiome of the False Map Turtle

- University of South Dakota: Research and Creative Activity Grant (\$750); November 2017
20. Creating online resources to engage South Dakota citizens in amphibian and reptile identification and conservation
South Dakota Game, Fish and Parks: Wildlife Diversity Small Grants (\$3749); March 2017
 19. Amphibian and reptile surveys in remnant prairies in southeastern South Dakota, with special emphasis on state monitored species
Prairie Biotic Research, Inc.: Small Grants Program (\$1000); March 2017
 18. Determining co-infection rates of two pathogens in Philippine amphibians
University of South Dakota: Research and Creative Activity Grant (\$750); November 2016
 17. Surveys for False Map Turtles and identification of key nesting sites in the upper Missouri River of South Dakota
South Dakota Game, Fish and Parks: Wildlife Action Grant (\$148,287); August 2016
 16. Estimating the prevalence of ranaviruses in Philippine amphibians
University of South Dakota: Research and Creative Activity Grant (\$500); December 2015
 15. Habitat associations of the Ring-necked Snake (*Diadophis punctatus*) in Nebraska and South Dakota
Nebraska Herpetological Society: Herpetological Grant Program (\$500); April 2015
 14. Establishing a protocol to culture ranaviruses at the University of South Dakota
University of South Dakota: Research and Creative Activity Grant (\$500); November 2014
 13. Effects of agricultural contaminants and ranavirus infection on stress hormone levels in the Plains Leopard Frog, *Rana blairi*
University of South Dakota: CURCS (\$750); November 2014
 12. Status of salamander species in South Dakota
South Dakota Game, Fish and Parks: Wildlife Action Grant (\$44,701); February 2014
 11. Impacts of agricultural tile drainage on viral pathogen prevalence in native amphibians
University of South Dakota: Research and Creative Activity Grant (\$500); December 2013
 10. Examining the association of ranavirus infection and agricultural influence in Eastern Tiger Salamanders
American Society of Ichthyologists and Herpetologists: Gaije Award (\$500); May 2013
 9. Examining the prevalence of ranaviruses in amphibians from northeast Nebraska
Herpetological Society: Herpetological Grant Program (\$500); April 2013
 8. Antipredator behavior and stress of an aquatic salamander in response to invertebrate predators
Texas Academy of Science: Research Proposal Award (\$2000); March 2012
 7. *Gambusia* predation on Central Texas *Eurycea* salamander eggs and larvae
Texas State University: Francis Rose Research Award (\$700); March 2012
 6. Behavioral response of a neotenic salamander to chemical stimuli of novel congeners
Student Undergraduate Research Fund: Texas State University (\$1000); November 2011
 5. Do introduced predators differentially influence the behavior and physiological stress response of the threatened San Marcos Salamander, *Eurycea nana*?
Southwestern Association of Naturalists: McCarley Research Award (\$1000); April 2011
 4. Do introduced predators differentially influence the behavior and physiological stress response of the threatened San Marcos Salamander, *Eurycea nana*?
Texas Herpetological Society: Grants-in-Herpetology (\$500); April 2011
 3. Predator recognition of the Fern Bank Salamander, *Eurycea pterophila*
Texas State University: Francis Rose Research Award (\$500); March 2011
 2. Morphological variation between disjunct populations of *Plethodon albagula*
University Co-op: Undergraduate Research Fellowship (\$1000); April 2009
 1. Morphological variation between disjunct populations of *Plethodon albagula*
Texas Academy of Science: Undergraduate Proposal Award (\$1000); April 2009

GRANTS IN REVIEW:

1. Surveys and assessment of smooth softshells (*Apalone mutica*) in Texas using environmental DNA
Texas Parks and Wildlife Department: State Wildlife Grant (\$74,350)

STUDENTS SUPERVISED:

* undergraduate † graduate (M.S.)

14. SHELBY M. BAUER[†]: Thesis Title TBD; University of Texas Rio Grande Valley; October 2020–*present* (Thesis Committee Member)
13. SEAN M. COLLINS[†]: Thesis Title TBD; University of Texas Rio Grande Valley; August 2020–*present* (Thesis Committee Member)
12. PADRAIC S. ROBINSON[†]: Distribution and status of Black-spotted Newts in Texas; University of Texas Rio Grande Valley; May 2019–*present* (Thesis Committee Member)
11. KRISTA M. RUPPERT[†]: Environmental DNA use for the detection of the Rio Grande Siren and other amphibians of conservation concern. University of Texas Rio Grande Valley; September 2018–July 2020 (Thesis Committee Member)
10. AMY P. BOGOLIN[†]: Development and application of a novel suite of field survey methods to inform conservation of the Rio Grande Cooter, *Pseudemys gorzugi*. University of Texas Rio Grande Valley; September 2018–May 2020 (Thesis Committee Member)
9. SHAYLYN D. AUSTIN^{*}: Effects of acute exposure of glyphosate on the microbiome of False Map Turtles (*Graptemys pseudogeographica*). University of Michigan (REU: Sustainable RIVER); May–August 2017
8. MADDIE M. BUTTERFIELD^{*}: Characterization of the cloacal microbiome and ranavirus prevalence in False Map Turtles in the Missouri River, South Dakota. University of South Dakota (U. Discover Scholar); April 2017–May 2019
7. KALIE M. LEONARD^{*}: The effects of the neonicotinoid clothianidin on larval Western Tiger Salamanders. University of South Dakota (U. Discover Scholar); February 2015–August 2017
6. RACHEL E. JOHANNSEN^{*}: Updating the distributions of amphibians and reptiles in South Dakota. University of South Dakota (U. Discover Scholar); November 2014–May 2017
5. ANDREW D. KOCH^{*}: Effects of agricultural contaminants and ranavirus infection on stress hormone levels in Plains Leopard Frogs, *Lithobates blairi*. University of South Dakota (CURCS recipient); January 2014–April 2015
4. GABRIELLE A. MALTAVERNE^{*}: Establishing amphibian and reptile teaching collections at South Dakota State University & Oak Lake Field Station. South Dakota State University; May 2013–December 2016
3. KATIE J. FERGUSON^{*}: Examining the influence of agricultural tile drainage on water-borne hormone levels of Western Tiger Salamanders, *Ambystoma mavortium*. University of South Dakota (U. Discover Scholar); January 2013–May 2014
2. MICHAEL J. EDWARDS^{*}: *Gambusia* predation on Central Texas *Eurycea* salamander eggs and larvae. Texas State University; March 2012–December 2012
1. DOMINIC L. DESANTIS^{*}: Predator avoidance in the Barton Springs Salamander, *Eurycea sosorum*. Texas State University; January 2011–December 2013

INVITED PRESENTATIONS:

7. **DAVIS DR.** Taxonomic status and occurrence of the Rio Grande siren. Wildlife Diversity Webinar Series, Texas Parks and Wildlife Department; August 2020
6. **DAVIS DR.** Effects of agricultural tile drainage on wetland habitats and species. Departmental Seminar, School of Earth, Environmental, and Marine Sciences, University of Texas Rio Grande Valley, Edinburg, TX; March 2019
5. **DAVIS DR.** Farkas JK. National Treasure: voucher specimens and museums. Congressional Lunch Briefing, Senate Majority Committee on Commerce, Science, and Transportation; Washington, DC; September 2018
4. **DAVIS DR.** Understanding the distributions of South Dakota amphibians and reptiles: a synthesis of museums and citizen science. South Dakota Chapter of The Wildlife Society; Oacoma, SD; February 2018

3. **DAVIS DR.** Status and distributions of South Dakota amphibians and reptiles. Department Seminar, Department of Biology, University of South Dakota, Vermillion, SD; September 2015
2. **DAVIS DR.** Updating the distributions of amphibians and reptiles in South Dakota. Midwest Partners in Amphibian and Reptile Conservation (MWPARC), Lawrence, KS; July 2015
1. **DAVIS DR.** Ecology and Conservation of Central Texas *Eurycea*. Austin Herpetological Society; Austin, TX; February 2012

PRESENTATIONS:

* *undergraduate author*

41. **DAVIS DR.** Effects of agricultural tile drainage on wetland habitats and species. Dissertation Defense Seminar, University of South Dakota; Vermillion, SD; April 2018
40. **DAVIS DR.** AUSTIN SD*, MADISON JD, KERBY JL. Understanding the effects of the herbicide glyphosate on the microbiome of the False Map Turtle. University of South Dakota IdeaFest; Vermillion, SD; April 2018
39. **DAVIS DR.** LADUC TJ, PAULY GB. Morphological variation between two widely distributed populations of *Plethodon albagula* (Caudata: Plethodontidae). Joint Meeting of Ichthyologists and Herpetologists; Austin, TX; July 2017 *Society for the Study of Amphibians and Reptiles, Victor Hutchinson Award (Physiology & Morphology)
38. **DAVIS DR.** KERBY JL. Physiological stress and pathogen infection in larval salamanders from agricultural wetlands. Joint Meeting of Ichthyologists and Herpetologists; Austin, TX; July 2017
37. **DAVIS DR.** SILER CD, KERBY JL. Co-infection of *Batrachochytrium dendrobatidis* and ranavirus in amphibians from the Philippines. University of South Dakota IdeaFest; Vermillion, SD; April 2017
36. **DAVIS DR.** LADUC TJ. Amphibians and reptiles of C. E. Miller Ranch and the Sierra Vieja Range, Chihuahuan Desert, Texas, USA. Texas Academy of Science 120th Annual Meeting; Belton, TX; March 2017
35. **DAVIS DR.** KERBY JL. Environmental contaminants, physiological stress, and ranavirus infection in salamanders from South Dakota wetlands. IRCEB Amphibian Pathogens Annual Meeting; Tempe, AZ; November 2016
34. **DAVIS DR.** BENDIK NF, ZABIEREK KC, GABOR CR. The effects of urbanization on physiological stress of Jollyville Plateau salamanders. Southwest Partners in Amphibian and Reptile Conservation (SWPARC), Alpine, TX; August 2016
33. **DAVIS DR.** SILER CD, KERBY JL. Co-infection of *Batrachochytrium dendrobatidis* and ranavirus in amphibians from Luzon Island, Philippines. Joint Meeting of Ichthyologists and Herpetologists; New Orleans, LA; July 2016
32. **DAVIS DR.** SILER CD, KERBY JL. *Batrachochytrium dendrobatidis* and ranavirus infection in amphibians from Luzon Island, Philippines. University of South Dakota IdeaFest; Vermillion, SD; April 2016
31. **DAVIS DR.** SCHWARZ MS, KERBY JL. Agricultural tile drainage: a potential threat to Great Plains amphibians. Society for the Study of Amphibians and Reptiles Meeting; Lawrence, KS; July 2015
30. **DAVIS DR.** SCHWARZ MS, KERBY JL. Effects of agricultural tile drainage and contaminants on wetland amphibians. Dakota Amphibian and Reptile Network (DARN) Meeting; Vermillion, SD; April 2015
29. **DAVIS DR.** JOHANNSEN RE*, KERBY JL. Updating the distributions of amphibians and reptiles in South Dakota. Dakota Amphibian and Reptile Network (DARN) Meeting; Vermillion, SD; April 2015
28. **DAVIS DR.** SCHWARZ MS, KERBY JL. Effects of agricultural tile drainage on wetland communities. University of South Dakota IdeaFest; Vermillion, SD; April 2015
27. **DAVIS DR.** SCHWARZ MS, KERBY JL. Assessing wetland degradation and contamination due to agricultural tile drainage. Texas Academy of Science 118th Annual Meeting; San Antonio, TX; March 2015
26. **DAVIS DR.** SCHWARZ MS, KERBY JL. Evaluation of agricultural tile drainage exposure and effects on wetland communities. South Dakota Chapter of The Wildlife Society; Oacoma, SD; February 2015
25. **DAVIS DR.** SCHWARZ MS, KERBY JL. Multi-year evaluation of tile drain exposure: biological assessments. US Fish and Wildlife Service Madison Wetland Management District Office; Madison, SD; February 2015
24. **DAVIS DR.** SCHWARZ MS, KERBY JL. Effects of agricultural tile drainage on amphibians in eastern South Dakota. Joint Meeting of Ichthyologists and Herpetologists; Chattanooga, TN; August 2014 *Society for the Study of Amphibians and Reptiles, Henri Siebert Award (Conservation)

23. **DAVIS DR**, GABOR CR. Stress response of the salamander, *Eurycea nana*, to native and introduced predators. 6th Conference on the Biology of Plethodontid Salamanders; Tulsa, OK; May 2014
22. **DAVIS DR**, SCHWARZ MS, KERBY JL. Effects of agricultural tile drainage on amphibians in eastern South Dakota. Dakota Amphibian and Reptile Network (DARN) Meeting; Fargo, ND; April 2014
21. **DAVIS DR**, KERBY JL. Impacts of agricultural tile drainage on ranavirus prevalence in eastern tiger salamanders. University of South Dakota IdeaFest; Vermillion, SD; April 2014
20. **DAVIS DR**, BENDIK NF, ZABIEREK KC, GABOR CR. The effects of urbanization on physiological stress of Jollyville Plateau salamanders, *Eurycea tonkawae*. Texas Academy of Science 117th Annual Meeting; Galveston, TX; March 2014
19. **DAVIS DR**, SCHWARZ MS, KERBY JL. Preliminary evaluation of tile drain exposure: biological assessments. US Fish and Wildlife Service Madison Wetland Management District Office; Madison, SD; February 2014
18. **DAVIS DR**, EPP KJ. Effect of fish species and size on the antipredator behavior of the San Marcos salamander (*Eurycea nana*). Society for Integrative and Comparative Biology Annual Meeting; Austin, TX; January 2014
17. **DAVIS DR**, EPP KJ. Effect of fish species and size on the antipredator behavior of the San Marcos salamander (*Eurycea nana*). Ecological Society of America Conference; Minneapolis, MN; August 2013
16. **DAVIS DR**, BROWN RM, DIESMOS AC, SILER CD. Morphology-based species delimitation in Philippine slender skinks: evaluation of the *Brachymeles bonita* complex. Joint Meeting of Ichthyologists and Herpetologists; Albuquerque, NM; July 2013 *Herpetologists' League, Graduate Student Presentation Award
15. **DAVIS DR**, BENDIK NF, GABOR CR. Assessing Jollyville Plateau salamander stress in urban and rural streams. Dakota Amphibian and Reptile Network (DARN) Meeting; Vermillion, SD; May 2013
14. **DAVIS DR**, BROWN RM, SILER CD. Taxonomic revision of the *Brachymeles bonita* species complex uncovers a high level of cryptic diversity and body form variation. University of South Dakota IdeaFest; Vermillion, SD; April 2013
13. **DAVIS DR**, GABOR CR. Stress response of the salamander, *Eurycea nana*, to native and introduced predators. Animal Behavior Society Conference; Albuquerque, NM; June 2012
12. **DAVIS DR**, GABOR CR. Stress response of the San Marcos salamander, *Eurycea nana*, to native and introduced predators. *EuryceAlliance* 2012 Meeting; San Marcos, TX; May 2012
11. **DAVIS DR**. Predator-prey interactions in the San Marcos salamander (*Eurycea nana*): predator generalization and stress hormones in response to introduced predators. Thesis Defense Seminar, Texas State University; San Marcos, TX; March 2012
10. **DAVIS DR**, GABOR CR. Differential corticosterone response towards native and introduced predators by the San Marcos salamander, *Eurycea nana*. Texas Academy of Science 115th Annual Meeting; Alpine, TX; March 2012
9. **DAVIS DR**, GABOR CR. Differential corticosterone response towards native and introduced predators by the San Marcos salamander, *Eurycea nana*. Texas Herpetological Society Symposium; Austin, TX; October 2011
8. **DAVIS DR**, GABOR CR. Generalization of introduced predators by a threatened salamander. Animal Behavior Society Conference; Bloomington, IN; July 2011
7. **DAVIS DR**, GABOR CR. Generalization of introduced predators by a threatened salamander (*Eurycea nana*). *EuryceAlliance* 2011 Meeting; San Marcos, TX; June 2011
6. **DAVIS DR**, GABOR CR. Phylogenetic generalization of predators by the San Marcos salamander, *Eurycea nana*. Texas State University 16th Annual Colloquium; San Marcos, TX; April 2011
5. **DAVIS DR**, GABOR CR. Phylogenetic generalization of predators by the San Marcos salamander, *Eurycea nana*. Texas Academy of Science 114th Annual Meeting; Austin, TX; March 2011
4. **DAVIS DR**, PAULY GB, LADUC TJ. Morphological variation between western slimy salamanders, *Plethodon albagula*, of the Interior Highlands and Edwards Plateau. Texas State University 15th Annual Colloquium; San Marcos, TX; April 2010
3. **DAVIS DR**, PAULY GB, LADUC TJ. Morphological variation between western slimy salamanders, *Plethodon albagula*, of the Interior Highlands and Edwards Plateau. Texas Academy of Science 113th Annual Meeting; Stephenville, TX; March 2010

2. **DAVIS DR***, PAULY GB. Morphological variation in the western slimy salamander, *Plethodon albagula*, of Central Texas. Southwestern Association of Naturalists 55th Annual Meeting; Memphis, TN; April 2008
1. **DAVIS DR***, PAULY GB. Morphological variation in the western slimy salamander, *Plethodon albagula*, of Central Texas. University of Texas Undergraduate Research Forum; Austin, TX; April 2008

COAUTHORED PRESENTATIONS:

* *undergraduate author*

60. BOGOLIN AP, **DAVIS DR**, KLINE RJ, RAHMAN FA. Comparing novel and traditional sampling methodologies to analyze the population status of the Rio Grande Cooter (*Pseudemys gorzugi*). Turtle Survival Alliance 2020 Symposium; Virtual Presentation; August 2020
59. MILLIKIN AR, **DAVIS DR**, BROWN DJ, WOODLEY S, COSTER S, WELSH A, KERBY JL, ANDERSON JT. 2020. Population health of spotted salamanders in created vernal pools. RE3: Reclaim, Restore, Rewild Conference, Québec, Canada; June 2020
58. LADUC TJ, **DAVIS DR**, CHRISTIANSEN JL. Citizen science CSI: better understanding the distribution of a newly described turtle shell disease condition through citizen observations. Chihuahuan Desert Conference, El Paso, TX; November 2019
57. BOGOLIN AP, KLINE RJ, RAHMAN MS, **DAVIS DR**, RAHMAN FA. Comparing novel and traditional sampling methodologies to analyze the population status of the Rio Grande Cooter (*Pseudemys gorzugi*). Turtle Survival Alliance 2019 Symposium; Tucson, AZ; August 2019
56. BOGOLIN AP, KLINE RJ, RAHMAN MS, **DAVIS DR**, RAHMAN FA. Comparing novel and traditional sampling methodologies to analyze the population status of the Rio Grande Cooter (*Pseudemys gorzugi*). Joint Meeting of Ichthyologists and Herpetologists; Snowbird, UT; July 2019
55. RUPPERT KM, **DAVIS DR**, KLINE RJ, RAHMAN MS. Development, application, and assessment of an environmental DNA assay for detection of the Rio Grande Siren. Joint Meeting of Ichthyologists and Herpetologists; Snowbird, UT; July 2019
54. LADUC TJ, **DAVIS DR**, CHRISTIANSEN JL. Citizen science CSI: better understanding the distribution of an undescribed turtle shell disease condition through citizen observations. Joint Meeting of Ichthyologists and Herpetologists; Snowbird, UT; July 2019
53. MARSHALL TL, **DAVIS DR**, HILLIS DM. Investigating mitonuclear discordance in North American corn snakes (*Pantherophis guttatus* complex). Joint Meeting of Ichthyologists and Herpetologists; Snowbird, UT; July 2019
52. CHRISTIANSEN JL, LADUC TJ, **DAVIS DR**. Chronic sloughing shell disease, a mechanism for infection of the Texas endangered Rough-footed Mud Turtle (*Kinosternon hirtipes*) and other tropical and subtropical species. Texas Academy of Science 122nd Annual Meeting; Brownwood, TX; March 2019
51. RUPPERT KM, BARE EA, **DAVIS DR**, KLINE RJ, RAHMAN MS. Development and application of an environmental DNA assay for detection of the Rio Grande siren. Texas Chapter of The Wildlife Society; Montgomery, TX; February 2019
50. KERBY JL, **DAVIS DR**, FARKAS JK, SCHWARZ MS, WESNER JS. Is it safe to drink water from a tile drain pipe? South Dakota Ducks Unlimited State Convention; Pierre, SD; January 2019
49. KERBY JL, **DAVIS DR**, FARKAS JK, JARCHOW ME, SCHWARZ MS, WESNER JS. Evaluation of agricultural tile drain exposure and effects on wetland communities. South Dakota Ducks Unlimited State Convention; Pierre, SD; January 2019
48. CHRISTIANSEN JL, LADUC TJ, **DAVIS DR**. Chronic sloughing shell disease, a mechanism for infection of the Texas endangered Rough-footed Mud Turtle (*Kinosternon hirtipes*) and other tropical and subtropical species. Texas Endangered Species Symposium; Georgetown, TX; January 2019
47. SCHWARZ MS, SCHULTZ B, **DAVIS DR**, KERBY JL. Nutrients, pesticides and selenium in agricultural tile discharges into public wetlands, Madison Wetland Management District, South Dakota. South Dakota Academy of Science; Brookings, SD; April 2018
46. WATTERS JL, **DAVIS DR**, YURI T, SILER CD. Concurrent infection of *Batrachochytrium dendrobatidis* and ranavirus among native amphibians from northeastern Oklahoma, USA. Southwestern Association of Naturalists 65th Annual Meeting; San Marcos, TX; April 2018

45. SMITH SN*, WATTERS JL, **DAVIS DR**, SILER CD. Assessment of seasonal variation in amphibian infectious disease in central Oklahoma. Southwestern Association of Naturalists 65th Annual Meeting; San Marcos, TX; April 2018
44. BUTTERFIELD MM, MADISON JD, **DAVIS DR**, KERBY JL. Surveillance of Ranavirus and characterization of gut bacterial microbiome in False Map Turtles (*Graptemys pseudogeographica*) within the Missouri River in South Dakota. University of South Dakota IdeaFest; Vermillion, SD; April 2018
43. SCHWARZ MS, SCHULTZ B, **DAVIS DR**, KERBY JL. Nutrients, pesticides and selenium in agricultural tile discharges into public wetlands, Madison Wetland Management District, South Dakota. South Dakota Chapter of the American Fisheries Society Conference; Brookings, SD; February 2018
42. SCHWARZ MS, SCHULTZ B, **DAVIS DR**, KERBY JL. Nutrients, pesticides and selenium in agricultural tile discharges into public wetlands, Madison Wetland Management District, South Dakota. Eastern South Dakota Water Conference; Brookings, SD; November 2017
41. BUTTERFIELD MB*, **DAVIS DR**, MADISON JD, KERBY JL. Comparing the presence of False Map Turtles (*Graptemys pseudogeographica*) within the Missouri River in South Dakota. University of South Dakota Undergraduate Research Symposium; Vermillion, SD; August 2017
40. AUSTIN SD*, **DAVIS DR**, KERBY JL. Effect of a glyphosate-based herbicide on the microbiome of false map turtles from southeastern South Dakota. South Dakota EPSCoR Research Symposium; Pierre, SD; August 2017
39. MILLIKIN AR, WOODLEY SK, **DAVIS DR**, ANDERSON JT. Factors influencing salamander hormones in created wetlands. Joint Meeting of Ichthyologists and Herpetologists; Austin, TX; July 2017
38. ELLSWORTH ED, WATTERS JL, **DAVIS DR**, FARKAS JK, SILER CD. Ranavirus detection in southeastern Oklahoma. Southwestern Association of Naturalists 64th Annual Meeting; Lawton, OK; April 2017
37. POLLEMA CD*, FARKAS JK, **DAVIS DR**, KERBY JL. The effect of agricultural runoff on invertebrates and fish in the Prairie Pothole Region. University of South Dakota IdeaFest; Vermillion, SD; April 2017
36. LEONARD KM*, **DAVIS DR**, KERBY JL. Behavioral and developmental effects of imidacloprid on larval Western Tiger Salamanders (*Ambystoma mavortium*). University of South Dakota IdeaFest; Vermillion, SD; April 2017
35. JOHANNSEN RE*, **DAVIS DR**, KERBY JL. Updating the distributions of South Dakota amphibian and reptile species. University of South Dakota IdeaFest; Vermillion, SD; April 2017
34. KERBY JL, **DAVIS DR**, FARKAS JK, JARCHOW ME, SCHWARZ MS, WESNER JS. Evaluation of agricultural tile drain exposure and effects on wetland communities. Missouri River Institute Symposium; Vermillion, SD; March 2017
33. MILLIKIN AR, WOODLEY SK, **DAVIS DR**, ANDERSON JT. Factors influencing salamander hormones in created wetlands. WVU Institute of Water Security and Science Spring Symposium; Morgantown, WV; February 2017
32. MILLIKIN AR, WOODLEY SK, **DAVIS DR**, ANDERSON JT. Factors influencing salamander hormones in created wetlands. WVU Institute of Water Security and Science Spring Symposium; Morgantown, WV; February 2017
31. GABOR CR, BENDIK NF, KIM DS, **DAVIS DR**, ZABIEREK KC. Urbanization is associated with changes in baseline and environmental corticosterone in a stream dwelling salamander. *EuryceAlliance* 2016 Meeting; Austin, TX; December 2016
30. GABOR CR, BENDIK NF, KIM DS, **DAVIS DR**, ZABIEREK KC. Urbanization is associated with changes in baseline and environmental corticosterone in a stream dwelling salamander. Texas Herpetological Society Symposium; Stephenville, TX; November 2016
29. GABOR CR, **DAVIS DR**, ZABIEREK KC, BENDIK NF. The effects of urbanization on the physiological stress of Jollyville Plateau salamanders. Special Highlands Conference on Plethodontid Salamander Biology; Highlands, NC; August 2016
28. FARKAS JK, **DAVIS DR**, HENRY BL, WESNER JS, KERBY JL. The effect of agricultural runoff on fish in the Prairie Pothole Region. North American Congress for Conservation Biology, Society for Conservation Biology; Madison, WI; July 2016
27. JOHANNSEN RE*, **DAVIS DR**, KERBY JL. Updating the distributions of South Dakota amphibian and reptile species. Joint Meeting of Ichthyologists and Herpetologists; New Orleans, LA; July 2016

26. MILLIKIN AR, WOODLEY SK, **DAVIS DR**, ANDERSON JT. Water-borne hormone levels of spotted salamanders (*Ambystoma maculatum*) in created wetlands. Joint Meeting of Ichthyologists and Herpetologists; New Orleans, LA; July 2016
25. FARKAS JK, **DAVIS DR**, HENRY BL, WESNER JS, KERBY JL. The effect of agricultural runoff on fish in the Prairie Pothole Region. Joint Meeting of Ichthyologists and Herpetologists; New Orleans, LA; July 2016
24. JOHANNSEN RE*, **DAVIS DR**, KERBY JL. Updating the distributions of South Dakota amphibian and reptile species. University of South Dakota IdeaFest; Vermillion, SD; April 2016
23. FARKAS JK, **DAVIS DR**, HENRY BL, WESNER JS, KERBY JL. The effect of agricultural runoff on fish in the Prairie Pothole Region. Missouri River Institute Symposium; Vermillion, SD; April 2016
22. **DAVIS DR**, HENRY BL, FARKAS JK, WARBOLD JWW, SCHWARZ MS, WESNER JS, KERBY JL. Evaluation of agricultural tile drain exposure and effects on wetland communities. South Dakota Game, Fish and Parks Region 3 Meeting; Brookings, SD; December 2015
21. KERBY JL, **DAVIS DR**. The search for the mudpuppy. South Dakota Game, Fish and Parks Region 3 Meeting; Brookings, SD; December 2015
20. FLANAGAN RL*, WATTERS JL, **DAVIS DR**, FARKAS JK, PENROD ML*, LABONTE MJ*, SILER CD. Preliminary screening of natural history collections for historical presence of amphibian infectious disease in Oklahoma. Society for the Study of Amphibians and Reptiles Meeting; Lawrence, KS; July 2015
19. KOCH AD*, **DAVIS DR**, KERBY JL. Effects of agricultural contaminants and ranavirus infection on stress hormone levels in plains leopard frogs, *Lithobates blairi*. Dakota Amphibian and Reptile Network (DARN) Meeting; Vermillion, SD; April 2015
18. KOCH AD*, **DAVIS DR**, KERBY JL. Effects of agricultural contaminants and ranavirus infection on stress hormone levels in plains leopard frogs, *Lithobates blairi*. University of South Dakota IdeaFest; Vermillion, SD; April 2015
17. GABOR CR, BENDIK NF, **DAVIS DR**, ZABIEREK KC, MONDELLI MJ. The effects of urbanization on the physiological stress of Jollyville Plateau salamanders, *Eurycea tonkawae*. Texas Herpetological Society Symposium; San Marcos, TX; November 2014
16. GABOR CR, BENDIK NF, **DAVIS DR**, ZABIEREK KC, MONDELLI MJ. The effects of urbanization on physiological stress of Jollyville Plateau salamanders, *Eurycea tonkawae*. *EuryceaAlliance* 2014 Meeting; Austin, TX; June 2014
15. GABOR CR, BENDIK NF, **DAVIS DR**, ZABIEREK KC, MONDELLI MJ. The effects of urbanization on physiological stress of Jollyville Plateau salamanders. 6th Conference on the Biology of Plethodontid Salamanders; Tulsa, OK; May 2014
14. FERGUSON KJ*, **DAVIS DR**, KERBY JL. Effects of agricultural tile drainage on stress hormones in Eastern tiger salamanders. University of South Dakota IdeaFest; Vermillion, SD; April 2014
13. DESANTIS DL*, GABOR CR, **DAVIS DR**. Invertebrate predator recognition and avoidance in the endangered Barton Springs salamander, *Eurycea sosorum*. Texas Academy of Science 117th Annual Meeting; Galveston, TX; March 2014
12. BENDIK NF, **DAVIS DR**, ZABIEREK KC, GABOR CR. The effects of urbanization on physiological stress of Jollyville Plateau salamanders, *Eurycea tonkawae*. Society for Integrative and Comparative Biology Annual Meeting; Austin, TX; January 2014
11. FERGUSON KJ*, **DAVIS DR**, KERBY JL. Effects of agricultural tile drainage on stress hormones in Eastern tiger salamanders. University of South Dakota BRIN/U. Discover Research Conference; Vermillion, SD; August 2013
10. EPP KJ, **DAVIS DR**. Threat-sensitive avoidance in the San Marcos salamander: effects of predator species and size. Animal Behavior Society Conference; Boulder, CO; July 2013
9. CHRISTIANI TJ*, **DAVIS DR**, MERKORD CL, BROWN RM, SILER CD. Cryptic diversity and population genetic structure in the rare, endemic, forest-obligate geckos of the Philippines. University of South Dakota IdeaFest; Vermillion, SD; April 2013
8. EPP KJ, **DAVIS DR**. Threat-sensitive avoidance in the San Marcos salamander: effects of predator species and size. Kansas Academy of Science Annual Meeting; Overland Park, KS; April 2013
7. DESANTIS DL*, **DAVIS DR**, GABOR CR. Chemically-mediated predator avoidance in the Barton Springs salamander. Animal Behavior Society Conference; Albuquerque, NM; June 2012

6. DeSANTIS DL*, **DAVIS DR**, GABOR CR. Chemically-mediated predator avoidance in the Barton Springs salamander, *Eurycea sosorum*. *EuryceaAlliance* 2012 Meeting; San Marcos, TX; May 2012
5. DeSANTIS DL*, **DAVIS DR**, GABOR CR. Chemically-mediated predator recognition in the Barton Springs salamander, *Eurycea sosorum*. Texas State University 17th Annual Colloquium; San Marcos, TX; March 2012
4. DeSANTIS DL*, **DAVIS DR**, GABOR CR. Predator recognition and response in the Barton Springs salamander, *Eurycea sosorum*. Texas Academy of Science 115th Annual Meeting; Alpine, TX; March 2012
3. DeSANTIS DL*, **DAVIS DR**, GABOR CR. Predator recognition and response in the Barton Springs salamander, *Eurycea sosorum*. Texas State Undergraduate Research Conference; San Marcos, TX; December 2011
2. DeSANTIS DL*, **DAVIS DR**, GABOR CR. Predator recognition and response in the Barton Springs salamander, *Eurycea sosorum*. Texas Herpetological Society Symposium; Austin, TX; October 2011.
1. GABOR CR, **DAVIS DR**. Stress in *Eurycea nana*. *EuryceaAlliance* 2011 Meeting; San Marcos, TX; June 2011

TEACHING EXPERIENCE:

Adjunct Faculty, Natural and Applied Science Division, Northern Virginia Community College–Loudoun, Sterling, VA
 Summer 2018 *General Biology I (BIO 101)*

Instructor of Record, Department of Biology, University of South Dakota, Vermillion, SD
 Fall 2015 *Herpetology (BIOL 434)*
 Fall 2015 *Herpetology Lab (BIOL 434L)*

Teaching Assistant, Department of Biology, University of South Dakota, Vermillion, SD
 Fall 2017 *Herpetology Lab (BIOL 434L/534L)*
 Fall 2013 *Herpetology Lab (BIOL 434L/534L)*
 Fall 2012 *Principles of Ecology Lab (BIOL 311L)*

Instructional Assistant, Department of Biology, Texas State University, San Marcos, TX
 Spring 2012 *General Entomology Lab (BIO 4465/5465)*
 Organismal Biology Lab (BIO 1131)
 Fall 2011 *Organismal Biology Lab (BIO 1131)*
 Spring 2011 *General Entomology Lab (BIO 4465/5465)*
 Organismal Biology Lab (BIO 1131)
 Fall 2010 *Organismal Biology Lab (BIO 1131)*
 Spring 2010 *Organismal Biology Lab (BIO 1131)*

GUEST LECTURES:

12. COMPARING NOVEL AND TRADITIONAL SAMPLING METHODOLOGIES TO ANALYZE THE POPULATION STATUS OF THE RIO GRANDE COOTER (*PSEUDEMYX GORZUGI*). University of Oklahoma, Department of Biology, BIO 4970/5970: Field Herpetology; Norman, OK; May 2020
11. AMPHIBIANS AND REPTILES. Mount Marty College, Division of Natural Sciences, BIO 241: Zoology; Yankton, SD; April 2017
10. EMERGING INFECTIOUS DISEASES IN AMPHIBIANS. University of Oklahoma, Department of Biology, BIOL 4083: Herpetology; Norman, OK; January 2017
9. EFFECTS OF TILE DRAINS ON WETLAND QUALITY AND BIOTA. South Dakota State University, Department of Natural Resource Management, NRM 466/566: Environmental Toxicology and Contaminants; Brookings, SD; April 2016
8. AMPHIBIANS AND REPTILES. Mount Marty College, Division of Natural Sciences, BIO 241: Zoology; Yankton, SD; April 2016
7. ECOSYSTEMS. University of South Dakota, Department of Biology, BIOL 151: General Biology I; Vermillion, SD; September 2015
6. COMMUNITY ECOLOGY. University of South Dakota, Department of Biology, BIOL 151: General Biology I; Vermillion, SD; September 2015

5. COMMUNITY ECOTOXICOLOGY. University of South Dakota, Department of Biology, BIOL 466/566: Environmental Toxicology and Contamination; Vermillion, SD; April 2015
4. EMERGING INFECTIOUS DISEASES IN AMPHIBIANS. University of Oklahoma, Department of Biology, BIOL 4083: Herpetology; Norman, OK; March 2015
3. ENDANGERED SPECIES IN FRESHWATER ENVIRONMENTS. University of South Dakota, Department of Biology, BIOL 412/512: Freshwater Ecology; Vermillion, SD; December 2013
2. THE ECOLOGY OF THE SAN MARCOS RIVER. University of South Dakota, Department of Biology, BIOL 442/542: Introduction to River Studies; Vermillion, SD; November 2013
1. SIR MODELING IN DISEASE ECOLOGY. University of South Dakota, Department of Biology, UHON 390/BIOL 791: Disease Ecology; Vermillion, SD; March 2013

PROFESSIONAL EMPLOYMENT:

2018– <i>present</i>	Associate Research Scientist, School of Earth, Environmental, and Marine Sciences, University of Texas Rio Grande Valley; Port Isabel, TX
2018	Adjunct Faculty, Division of Natural and Applied Science, Northern Virginia Community College–Loudoun; Sterling, VA
2018	Contract Biologist, South Dakota Game, Fish and Parks; Pierre, SD <ul style="list-style-type: none"> • Conducted surveys for the state endangered Lined Snake (<i>Tropidoclonion lineatum</i>)
2016	Natural History Collection Consultant, A. Jewell Schock Museum of Natural History, Wayne State College; Wayne, NE <ul style="list-style-type: none"> • Consultant for updating and curating fluid specimens
2014	Contract Biologist, HDR, Inc.; Sioux Falls, SD <ul style="list-style-type: none"> • Conducted surveys for the state endangered Lined Snake (<i>Tropidoclonion lineatum</i>) • Consultant for designation and placement of Lined Snake Conservation Area
2015	Instructor of Record, Department of Biology, University of South Dakota; Vermillion, SD
2013–2018	Research Assistant, Department of Biology, University of South Dakota; Vermillion, SD
2012–2017	Teaching Assistant, Department of Biology, University of South Dakota; Vermillion, SD
2012–2018	Collections Manager, Department of Biology, University of South Dakota; Vermillion, SD
2010–2012	Instructional Assistant, Department of Biology, Texas State University; San Marcos, TX
2008	Research Assistant, Biodiversity Collections, University of Texas at Austin; Austin, TX
2007–2010	Research Assistant, Dr. Mary Poteet Lab, University of Texas at Austin; Austin, TX
2007–2008	Curatorial Assistant, Biodiversity Collections, University of Texas at Austin; Austin, TX
2007–2008	Temporary Environmental Scientist, Department of Watershed Protection and Development, City of Austin; Austin, TX
2006–2009	Lab Technician, Dr. Camille Parmesan Lab, University of Texas; Austin, TX

AWARDS, SCHOLARSHIPS, AND HONORS:

2017	Victor Hutchinson Presentation Award (Physiology & Morphology), Society for the Study of Amphibians and Reptiles
2017	Johnson Memorial Travel Award, University of South Dakota, Department of Biology
2016	Kevin Honness Memorial Scholarship, Great Plains Natural Science Society
2014	Henri Siebert Presentation Award (Conservation), Society for the Study of Amphibians and Reptiles
2013	Graduate Research Presentation Award (2nd Place), Herpetologists' League
2016	Harold Smith Travel Award, University of South Dakota, Department of Biology
2013–2015	Hazel Teot Travel Award, University of South Dakota, Department of Biology

2013	Travel Award, American Society of Ichthyologists and Herpetologists
2013	Travel Award, Society for the Study of Amphibians and Reptiles
2011, 2012	Travel Award, Department of Biology, Texas State University
2008	Intellectual Entrepreneurship Travel Award, University of Texas at Austin
2013–2017	Louella E. Cable Memorial Scholarship, University of South Dakota
2011	Associated Student Government Scholarship, Texas State University
2010, 2011	Graduate College Scholarship, Texas State University
2012–2018	University of South Dakota: Academic Honors
2010–2012	Texas State University: Academic Honors
2005–2009	University of Texas at Austin: Academic Honors

SERVICE:

2020	Incoming Editor, <i>Herpetological Review</i> , Society for the Study of Amphibians and Reptiles
2019–present	Managing Editor, <i>Herpetological Review</i> ; Society for the Study of Amphibians and Reptiles
2012–present	Manuscript Review: <i>Acta Ethologica</i> (2011, 2020), <i>Amphibia-Reptilia</i> (2012, 2013, 2018); <i>Asian Herpetological Research</i> (2020); <i>Behavioral Ecology and Sociobiology</i> (2016); <i>Behaviour</i> (2016); <i>Biharean Biologist</i> (2019); <i>Biology Letters</i> (2015); <i>BMC Evolutionary Biology</i> (2020); <i>Canadian Journal of Zoology</i> (2019, 2020); <i>Conservation Genetics Resources</i> (2020); <i>Copeia</i> (2015, 2019); <i>Environmental Toxicology and Chemistry</i> (2019); <i>Herpetologica</i> (2016); <i>Herpetological Conservation and Biology</i> (2014, 2018); <i>Herpetological Review</i> (2013–2020); <i>Hydrobiologia</i> (2014); <i>Journal of Herpetology</i> (2015); <i>Raffles Bulletin of Zoology</i> (2017); <i>Restoration Ecology</i> (2020); <i>The Science of Nature</i> (2019); <i>Texas Journal of Science</i> (2018); <i>The Herpetological Journal</i> (2015); <i>Zoologica Neocaledonica</i> (2013); <i>Zoology</i> (2015); <i>Zootaxa</i> (2017)
2019	Reviewer, Annual Graduate Student Oral Presentation Competition, Texas Academy of Science
2019	Volunteer Organizer, School of Earth, Environmental, and Marine Sciences (SEEMS) Seminar Series, University of Texas Rio Grande Valley
2017	Snakes of Sioux Falls; Sioux Falls Animal Control, Sioux Falls, SD
2017	Amphibian Disease Analysis Workshop; University of Oklahoma, Norman, OK
2015–2018	Advisory Board Member; Midwest Partners in Amphibian and Reptile Conservation
2015–2018	University of South Dakota: Graduates in Ecology, Behavior, and Evolution (GrEBE) Discussion Group
2015	Instructor, Amphibian and Reptile Collecting and Preservation Workshop; Oglala Lakota College, Pine Ridge Indian Reservation, Kyle, SD
2015	Amphibian Disease Sampling Workshop; University of Oklahoma, Norman, OK
2014	University of South Dakota, University Budget Committee: Graduate Student Liaison
2013–2019	Copy Editor, <i>Herpetological Review</i> ; Society for the Study of Amphibians and Reptiles
2013–2015	Student Travel Award Coordinator; American Society of Ichthyologists and Herpetologists
2012–2014	University of South Dakota, Faculty Senate: Graduate Student Senator
2010–2012	Texas State Biology Graduate Student Organization Vice President (2011, 2012) Graduate Speaker Committee (2010, 2011)
2010–2012	Texas State University: Ecology, Evolution, and Behavior (EEB) Discussion Group

OUTREACH:

2017– <i>present</i>	Amphibians and Reptiles of South Dakota (www.sdherps.org): Website/Project Administrator
2016– <i>present</i>	Amphibians and Reptiles of South Dakota: iNaturalist Project Administrator
2018	Patrick Lalley Radio Show, South Dakota Snakes; Sioux Falls, SD
2017	Sioux Falls Animal Control, Snake Removal and Transport; Sioux Falls, SD
2017	Missouri River Watershed Festival: Wetland Ecology; Yankton, SD
2017	College and Career Fair, Tea Area High School; Tea, SD
2017	USD Biology Club Outreach; Earth Week Festival; Vermillion, SD
2016	Acorn Academy Co-op Outreach: Insect Metamorphosis; Vermillion, SD
2016	FrogWatch USA Outreach; Earth Week Festival; Vermillion, SD
2015	Family Fun Day Outreach: South Dakota Amphibians and Reptiles; Vermillion, SD
2015	FrogWatch USA Volunteer Training; Oglala Lakota College; Pine Ridge Indian Reservation, Kyle, SD
2015	Missouri River Watershed Festival: Wetland Ecology; Yankton, SD
2015	Girl Scouts of America, World Thinking Day: Amphibians and Reptiles; Vermillion, SD
2014	Winnebago Indian Reservation Outreach: Wetland Ecology and Amphibian Conservation; Vermillion, SD
2014	Missouri River Watershed Festival: Wetland Ecology; Yankton, SD
2014	Great Plains Zoo, Party for the Planet: FrogWatch USA; Sioux Falls, SD
2014	South Dakota Science Olympiad State Tournament: Water Quality; Vermillion, SD
2013–2014	Amphibian Biologist Advisor; Platte-Geedes Elementary School; Platte, SD
2013	Lawrence Brothers Science Camp: Forensic Entomology; Vermillion, SD
2013	Missouri River Watershed Festival: Wetland Ecology; Yankton, SD
2007–2012	Texas Memorial Museum Outreach: ID Days, Darwin Day, Explore UT; Austin, TX

PHOTOGRAPHY:

2020	Austin American Statesman; Not-so-creepy crawlies (by N. Villalpando) <i>Storeria dekayi</i> , <i>Salvadora deserticola</i> , <i>Hemidactylus turcicus</i> , <i>Rana berlandieri</i>
2019	Herpetologists' League Student Calendar <i>Sanguirana luzonensis</i>

REFERENCES:

1. Dr. Richard J. Kline
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5. Dr. Cameron D. Siler
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