

# Wade A. Ryberg

Texas A&M Natural Resources Institute  
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## EDUCATION

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- Ph.D. Washington University in St. Louis (2009)**  
Program in Evolution, Ecology, and Population Biology, Advisor: Jonathan Chase
- M.S. Texas A&M University (2002)**  
Department of Wildlife and Fisheries Sciences, Advisor: Lee Fitzgerald
- B.S. Texas A&M University (1999)**  
Major: Wildlife and Fisheries Sciences, *Summa Cum Laude*

## PROFESSIONAL APPOINTMENTS

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Research Scientist, Texas A&M Natural Resources Institute (2014-present)  
Postdoctoral Research Associate, Wildlife and Fisheries, Texas A&M Univ. (2010-2013)  
Postdoctoral Research Associate, School of Biology, Georgia Institute of Technology (2009)

## GRANTS AND FUNDING (Total = \$5,832,755)

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28. National Fish and Wildlife Foundation. Genomics, Morphology, and Niche Modeling for the Western Massasauga (*Sistrurus tergeminus*). Role: **Co-PI \$243,198**
27. Department of Defense. Rare, Threatened and Endangered Snake Surveys and Telemetry at JB MDL, New Jersey. Role: **Co-PI \$91,560**
26. Department of Defense. Habitat and movement of the Desert Massasauga at Kirtland Air Force Base, New Mexico. Role: **Co-PI \$149,790**
25. U.S. Fish and Wildlife Service. Genomics of the Desert Massasauga (*Sistrurus tergeminus edwardsii*). Role: **Co-PI \$60,000**
24. Texas Department of Transportation. Assessing Traffic Threats for Amphibian and Reptile Species of Greatest Conservation Need on Texas Roadways. Role: **Co-PI \$87,976**
23. Department of Defense. Gopher Tortoise Relocation – Natural Resources Support at Eglin Air Force Base. Role: **Co-PI \$387,744**
22. Department of Defense. Surveys and habitat management for reptiles and amphibians at Laughlin Air Force Base post salt cedar eradication. Role: **Co-PI \$55,000**
21. Texas A&M Natural Resources Institute. Distribution and Habitat association of Desert Massasauga (*Sistrurus tergeminus edwardsii*). Role: **Co-PI \$24,000**
20. Texas A&M Natural Resources Institute. Reptile recolonization after coal mine reclamation. Role: **Co-PI \$55,000**
19. Texas Parks and Wildlife Department. Movement, Home Range, and Habitat Use of the Spot-tailed Earless Lizard (*Holbrookia lacerata*) on Laughlin Air Force Base. Role: **PI \$18,539**
18. Department of Defense. Gopher Tortoise Relocation – Natural Resources Support at Eglin Air Force Base. Role: **Co-PI \$381,754**

17. Department of Defense. Environmental support and Amphibian and Reptile Surveys at Holloman AFB, New Mexico. Role: **Research Scientist \$60,355**
16. Texas Parks and Wildlife Department. Movements, Home Range, Activity Patterns, and Habitat Selection of the Western Chicken Turtle (*Deirochelys reticularia miaria*) in Texas. Role: **PI \$98,014**
15. Department of Defense. Surveys and habitat management for reptiles at Laughlin Air Force Base. Role: **Co-PI \$92,089**
14. Department of Defense. Surveys and habitat management for amphibians and reptiles at Naval Air Station Kingsville. Role: **Co-PI \$69,794**
13. Endangered Species Task Force, Texas Comptroller of Public Accounts. Translocation and Habitat Management for the Dunes Sagebrush Lizard (*Sceloporus arenicolus*) under the Texas Conservation Plan. Role: **Co-PI \$936,179**
12. Endangered Species Task Force, Texas Comptroller of Public Accounts with University of Texas – Austin. Endangered species Research projects for the Spot-tailed Earless Lizard. Role: **Co-PI \$130,109**
11. Endangered Species Task Force, Texas Comptroller of Public Accounts. Endangered species Research projects for the Louisiana Pine Snake. Role: **Co-PI \$149,909**
10. New Mexico Department of Game and Fish. Habitat conservation forecasting for the Western Massasauga (*Sistrurus tergeminus*) in New Mexico. Role: **Co-PI \$20,000**
9. Texas A&M Natural Resources Institute. Distribution and Habitat association of Spot-tailed Earless Lizards (*Holbrookia lacerata*). Role: **Co-PI \$50,000**
8. Endangered Species Task Force, Texas Comptroller of Public Accounts. Habitat modeling, distribution, and habitat use of the Western Chicken Turtle (*Deirochelys reticularia miaria*). Role: **PI \$199,993**
7. Texas Parks and Wildlife Department. Habitat modeling, distribution, and habitat use of the Reticulate Collared Lizard (*Crotaphytus reticulatus*). Role: **Co-PI \$255,228**
6. Texas A&M Natural Resources Institute. Effects of Oil and Gas Development and Grazing on Populations of Spot-tailed Earless Lizards (*Holbrookia lacerata*) in Texas. Role: **Co-PI \$25,000**
5. Texas Parks and Wildlife Department. Genetic determination of the Desert Massasauga distribution in Texas. Role: **PI \$30,458**
4. Endangered Species Task Force, Texas Comptroller of Public Accounts. Effects of Management Practices for Oil and Gas Development on Populations of Dunes Sagebrush Lizard in Texas. Role: **Co-PI \$1,950,860**
3. Texas A&M Natural Resources Institute. Identifying the range and distribution of *Sceloporus arenicolus* in Texas. Role: **Co-PI \$180,000**
2. National Science Foundation Doctoral Dissertation Improvement Grant. Predator-dependent species-area relationships in Ozark glades. Role: **PI \$9,913**
1. Texas Army National Guard-Division of Natural Resources. Monitoring Amphibian and Reptile Diversity and Abundance at Fort Wolters. Role: **PI \$20,293**

### **PUBLICATIONS** (\* denotes undergraduate student and †graduate student)

42. Chase, J.M., L. Gooriah, F. May, **W.A. Ryberg**, M.S. Schuler, D. Craven, and T.M. Knight. 2019. A framework for disentangling ecological mechanisms underlying the island species-area relationship. *Frontiers of Biogeography*, pp. 1-17. <https://doi.org/10.21425/F5FBG40844>
41. Hibbitts, T.J., **W.A. Ryberg**, J. Harvey<sup>†</sup>, G.A. Voelker, C.S. Adams, D.B. Neuharth, D.E. Dittmer<sup>†</sup>, C.M. Duran, B.D. Wolaver, J.P. Pierre, B.J. Labay, T.J. Laduc. (In press)

- for 2019). Phylogenetic relationships within *Holbrookia lacerata* (Cope 1880)(Squamata: Phrynosomatidae). *Zootaxa*.
40. Garrett<sup>†</sup>, T.B., **W.A. Ryberg**, C.S. Adams, T.A. Campbell, and T.J. Hibbitts. (In press for 2019). Diurnal and Nocturnal Habitat Use in Reticulate Collared Lizards (*Crotaphytus reticulatus*). *Southwestern Naturalist*.
  39. Walkup<sup>†</sup>, D.K., T.J. Hibbitts, **W.A. Ryberg**, R.R. Lopez, B.W. Hagedorn, J.R. Preston, W. Pittman, J.T. Johnson. 2019. *Gopherus polyphemus* (Gopher Tortoise). Predation. *Herpetological Review* 50:123-124.
  38. Walkup<sup>†</sup>, D.K., **W.A. Ryberg**, L.A. Fitzgerald, T.J. Hibbitts. 2018. Occupancy and Detection of an Endemic Habitat Specialist, the Dunes Sagebrush Lizard. *Herpetological Conservation and Biology* 13:497-506.
  37. **Ryberg, W.A.**, and A.M. Lawing. 2018. Genetic consequences and management implications of climate change for the American Alligator (*Alligator mississippiensis*). In S.E. Henke and C.B. Eversole: *American Alligators: Habitats, Behaviors, and Threats*, Nova Publishers, Inc. New York. Pgs. 123-153.
  36. Walkup<sup>†</sup>, D. K., C. S. Adams, **W. A. Ryberg**, and T. J. Hibbitts. 2018. *Holbrookia lacerata* (Spot-tailed Earless Lizard). Predation. *Herpetological Review* 49:742-743
  35. Adams, C.S., J.B. Pierce, D.C. Rudolph, **W.A. Ryberg** and T.J. Hibbitts. 2018. Resolving questionable records of the Louisiana Pinesnake (*Pituophis ruthveni*). *Southeastern Naturalist* 172:286-292.
  34. Neuharth, D., D.K. Walkup<sup>†</sup>, S. Frizzell, J. Kachel, C.S. Adams, T. Johnson\*, T.J. Hibbitts, and **W.A. Ryberg**. 2018. *Holbrookia lacerata* (Spot-tailed Earless Lizard) Burying Behavior. *Herpetological Review* 49:536-37.
  33. Wolaver, B.D., J.P. Pierre, S.A. Ikonnikova, J.R. Andrews, G. McDaid, **W.A. Ryberg**, T.J. Hibbitts, C.M. Duran, B.J. Labay, and T.J. LaDuc. 2018. An Improved Approach for Forecasting Ecological Impacts from Future Drilling in Unconventional Shale Oil and Gas Plays. *Environmental Management*, pp.1-11. <https://doi.org/10.1007/s00267-018-1042-5>
  32. Roelke, C.E., J.A. Maldonado, B.W. Pope, T.J. Firneno Jr., T.J. Laduc, T.J. Hibbitts, **W.A. Ryberg**, N.D. Rains, and M.K. Fujita. 2018. Mitochondrial genetic variation within and between *Holbrookia lacerata lacerata* and *Holbrookia lacerata subcaudalis*, the Spot-Tailed Earless Lizards of Texas. *Journal of Natural History* DOI: 10.1080/00222933.2018.1436726.
  31. Neuharth, D., S. Frizzell, **W.A. Ryberg**, and T.J. Hibbitts. 2018. *Holbrookia lacerata* (Spot-tailed Earless Lizard) Predation. *Herpetological Review* 49:537.
  30. Pierre, J.P., B.D. Wolaver, B.J. Labay, T.J. LaDuc, C.M. Duran, **W.A. Ryberg**, T.J. Hibbitts, J.R. Andrews. 2018. Comparison of recent oil and gas, wind energy, and other anthropogenic landscape alteration factors in Texas through 2014. *Environmental Management* 61:805-818. [doi.org/10.1007/s00267-018-1000-2](https://doi.org/10.1007/s00267-018-1000-2).
  29. Young<sup>†</sup>, M.E., **W.A. Ryberg**, L.A. Fitzgerald, and T.J. Hibbitts. 2018. Fragmentation alters home range and movements of the Dunes Sagebrush Lizard (*Sceloporus arenicolus*). *Canadian Journal of Zoology* 96:1-8. <https://doi.org/10.1139/cjz-2017-0048>.
  28. Wolaver, B.D., J.P. Pierre, B.J. Labay, T.J. LaDuc, C.M. Duran, **W.A. Ryberg**, and T.J. Hibbitts. 2018. An approach for evaluating changes in land-use from energy sprawl and other anthropogenic activities with implications for biotic resource management. *Environmental Earth Sciences* 77:171. <https://doi.org/10.1007/s12665-018-7323-8>
  27. **Ryberg, W.A.**, B.D. Wolaver, H.L. Prestridge, B.J. Labay, J.P. Pierre, R.A. Costley, C.S. Adams, B.C. Bowers, and T.J. Hibbitts. 2017. Habitat modeling and conservation

- of the Western Chicken Turtle (*Deirochelys reticularia miaria*). *Herpetological Conservation and Biology* 12(2):307-320.
26. Adams, C.S., J.B. Pierce, D.C. Rudolph, **W.A. Ryberg** and T.J. Hibbitts. 2017. *Pituophis ruthveni*. *Catalogue of American Amphibians and Reptiles* 910:1-16.
  25. Hibbitts, T.J., L.A. Fitzgerald, D.K. Walkup<sup>†</sup>, and **W.A. Ryberg**. 2017. Why didn't the lizard cross the road?: Dunes Sagebrush Lizards exhibit road avoidance behaviour. *Wildlife Research* 44(3):194-199. <https://doi.org/10.1071/WR16184>
  24. Adams, C.S., **W.A. Ryberg**, T.J. Hibbitts, B.L. Pierce, J.B. Pierce, and D. C. Rudolph. 2017. Evaluating Effectiveness and Cost of Time-lapse Triggered Camera Trapping Techniques to Detect Terrestrial Squamate Diversity. *Herpetological Review* 48(1) 46-50.
  23. **Ryberg, W.A.**, and L.A. Fitzgerald. 2016. Landscape composition, not connectivity, determines metacommunity structure across multiple scales. *Ecography* 39(10) 932–941. DOI: 10.1111/ecog.01321
  22. **Ryberg, W.A.**, J. Harvey<sup>†</sup>, A. Blick\*, T.J. Hibbitts, and G.A. Voelker. 2015. Genetic structure is inconsistent with subspecies designations in the Western Massasauga (*Sistrurus tergeminus*). *Journal of Fish and Wildlife Management* DOI: [dx.doi.org/10.3996/122014-JFWM-093](https://doi.org/10.3996/122014-JFWM-093).
  21. Tan<sup>†</sup>, J., Z. Pu<sup>†</sup>, **W.A. Ryberg**, and L. Jiang. 2015. Resident-invader phylogenetic relatedness, not resident phylogenetic diversity, controls community invasibility. *American Naturalist* 186(1) 59-71.
  20. **Ryberg, W.A.**, M.T. Hill, C.W. Painter, and L.A. Fitzgerald. 2015. Irreplaceable landforms in a self-organizing landscape determine sensitivity of population vital rates for an ecological specialist. *Conservation Biology* DOI: 10.1111/cobi.12429.
  19. **Ryberg, W.A.**, and L.A. Fitzgerald. 2015. Sand grain size composition influences subsurface oxygen diffusion and distribution of an endemic, psammophilic lizard. *Journal of Zoology* DOI: 10.1111/jzo.12184.
  18. **Ryberg, W.A.**, M.T. Hill, C.W. Painter, and L.A. Fitzgerald. 2013. Landscape pattern determines neighborhood size and structure within a lizard population. *PLoS One* 8(2) e56856.
  17. Hibbitts, T.J., **W.A. Ryberg**, C.S. Adams\*, A.M. Fields\*, D. Lay\*, and M.E. Young<sup>†</sup>. 2013. Microhabitat selection by a habitat specialist and a generalist in both fragmented and unfragmented landscapes. *Herpetological Conservation and Biology* 8(1) 104-113.
  16. **Ryberg, W.A.**, D. Lay\*, M.T. Hill, and L.A. Fitzgerald. 2012. Observations on the reproductive and nesting ecology of the Dunes Sagebrush Lizard (*Sceloporus arenicolus*). *Western North American Naturalist* 72(4) 582-585.
  15. **Ryberg, W.A.**, K.G. Smith, and J.M. Chase. 2012. Predators alter the scaling of diversity in prey metacommunities. *Oikos* (121) 1995-2000.
  14. Tan<sup>†</sup>, J., Z. Pu<sup>†</sup>, **W.A. Ryberg**, and L. Jiang. 2012. Species phylogenetic relatedness, priority effects, and ecosystem functioning. *Ecology* 93(5) 1164-1172.
  13. Dittmer<sup>†</sup>, D., D.J. Leavitt<sup>†</sup>, **W.A. Ryberg**, and L.A. Fitzgerald. 2012. *Arizona elegans elegans* (Kansas Glossy Snake) diet and feeding behavior. *Herpetological Review* 43(1) 143.
  12. **Ryberg, W.A.**, and T.J. Hibbitts. 2012. *Alligator mississippiensis* (American alligator) diet and growth rate. *Herpetological Review* 43(3) 475-476.
  11. Chase, J.M., E.G. Biro<sup>†</sup>, **W.A. Ryberg**<sup>†</sup>, K.G. Smith. 2009. Predators temper the relative importance of stochastic processes in the assembly of prey metacommunities. *Ecology Letters* 12(11) 1210-1218.

10. Allan<sup>†</sup>, B.F., R.B. Langerhans<sup>†</sup>, **W.A. Ryberg<sup>†</sup>**, R. Katz<sup>\*</sup>, N. Griffin<sup>†</sup>, K.N. Smyth<sup>†</sup>, B. Oberle<sup>†</sup>, M. Schutzenhofer<sup>†</sup>, W.J. Landesman<sup>†</sup>, K.R. Crooks, R.S. Ostfeld and J.M. Chase. 2009. Ecological Correlates of Risk and Incidence of West Nile Virus in the United States. *Oecologia* 158(4) 699-708.
9. **Ryberg<sup>†</sup>, W.A.**, and J.M. Chase. 2007. Predator-dependent species-area relationships. *American Naturalist* (170) 636-642.
8. **Ryberg<sup>†</sup>, W.A.**, and L.A. Fitzgerald. 2005. Herpetofaunal Inventory of Fort Wolters in North-Central Texas. *Southwestern Naturalist* 50(2) 267-271.
7. Chase, J.M., and **W.A. Ryberg<sup>†</sup>**. 2004. Connectivity, scale-dependence, and the productivity–diversity relationship. *Ecology Letters* (7) 676-683.
6. **Ryberg<sup>†</sup>, W.A.**, L.A. Fitzgerald, R.L. Honeycutt, and J.C. Cathey, T.J. Hibbitts<sup>†</sup>. 2004. Establishing a baseline inventory of vertebrates at the Richland Creek Wildlife Management Area in east Texas. *Southwestern Naturalist* 49(4) 528-534.
5. **Ryberg<sup>†</sup>, W.A.**, and J.C. Cathey. 2004. A box trap design to capture alligators in forested wetland habitats. *Wildlife Society Bulletin* 32(1) 183-187.
4. **Ryberg<sup>†</sup>, W.A.**, and G.H. Dayton<sup>†</sup>. 2004. *Scaphiopus couchi* (Couch's spadefoot) predation by *Masticophis flagellum* (Coachwhip). *Herpetological Review* 35(3) 263.
3. **Ryberg<sup>†</sup>, W.A.**, L.A. Fitzgerald, R.L. Honeycutt, and J.C. Cathey. 2002. Genetic Relationships of American Alligator Populations Distributed across Different Ecological and Geographic Scales. *Journal of Experimental Zoology* 294(4) 325-333.
2. Hibbitts<sup>†</sup>, T.J., R.E. Nelson<sup>†</sup>, and **W.A. Ryberg<sup>†</sup>**. 2001. Geographic Distribution of *Scaphiopus hurteri*. *Herpetological Review* 32(2) 116.
1. Hibbitts<sup>†</sup>, T.J., R.E. Nelson<sup>†</sup>, and **W.A. Ryberg<sup>†</sup>**. 2001. Geographic Distribution of *Hyla cinerea*. *Herpetological Review* 32(2) 114.

***In Review (manuscripts available upon request):***

- Ryberg, W.A.**, T.B. Garrett<sup>†</sup>, C.S. Adams, T.A. Campbell, D.K. Walkup<sup>†</sup>, T.E. Johnson<sup>\*</sup>, and T.J. Hibbitts. Life in the Thornscrub: Movement, Home Range, and Territoriality of the Reticulate Collared Lizard. *Submitted to Journal of Natural History*.
- Walkup<sup>†</sup>, D. K., **W. A. Ryberg**, L.A. Fitzgerald, and T. J. Hibbitts. From the ground up: Microhabitat use within a landscape context frames the spatiotemporal scale of settlement and vacancy dynamics in an endemic habitat specialist. *Submitted to Landscape Ecology*
- Walkup, D. K., **W. A. Ryberg**, T. J. Hibbitts, S. Frizzell, D. Neuharth, T. Johnson<sup>\*</sup>, C.S. Adams, J. Kachel, and D. Yandell. Habitat Use, Home Range, and Movements of the Tamaulipan Spot-tailed Earless Lizard (*Holbrookia subcaudalis*). *Submitted to Copeia*.
- Walkup, D.K., **W.A. Ryberg**, J. Kachel, C. Adams, S. Frizzell, T. Johnson<sup>\*</sup>, D. Neuharth, and T.J. Hibbitts. Out in the Open: Habitat use in the plateau spot-tailed earless lizard. *Submitted to Wildlife Research*
- Johnson<sup>\*</sup>, T.E., C.S. Adams, **W.A. Ryberg**, T.J. Hibbitts, and T.A. Campbell. Herpetofaunal utilization of Texas Pocket Gopher (*Geomys personatus*) mounds in the south Texas sand sheet. *Submitted to Southwestern Naturalist*.

**TECHNICAL REPORTS** (\* denotes undergraduate student and <sup>†</sup>graduate student)

37. Walkup, D. K., K. L. Skow, T. J. Hibbitts, **W. A. Ryberg**, and R. R. Lopez. 2019. Technical Memo 3: Assessing Traffic Threats for Amphibian and Reptile Species of

Greatest Conservation Need on Texas Roadways. Submitted to Texas Department of Transportation.

36. **Ryberg, W.A.**, D.K. Walkup, B.C. Bowers<sup>†</sup>, T.J. Hibbitts, M. Kramm, R.R. Lopez, C. Kent, D. Lowe, T. Scott, J. Preston, W. Pittman, J. Johnson, B. Hagedorn, and R. Howell. 2019. Natural Resources Support at Eglin Air Force Base: Gopher Tortoise Translocation and Monitoring. Submitted to Department of Defense.
35. Jorgensen A., K. Parsons, S. MacCallum, **W.A. Ryberg**, M. Kramm, and R.R. Lopez. 2019. Natural Resources Support at Hanscom Air Force Base: Plover and Red Knot Species Management. Submitted to Department of Defense.
34. Schneider, D.W., R.T. Zappalorti, D. Burkett, R. Fitzgerald, **W.A. Ryberg**, M. Kramm, and R.R. Lopez. 2019. Natural Resources Support at Joint Base McGuire-Dix-Lakehurst (U.S. Air Force) Bog Turtle and Pine Snake, Corn Snake, Timber Rattlesnake Species Management. Submitted to Department of Defense.
33. **Ryberg, W. A.**, D. K. Walkup, T. J. Hibbitts, F. Cartaya<sup>†</sup>, K. D. Demere<sup>†</sup>, S. J. Turner<sup>†</sup>, A. Harvey, D. Rizzuto, B. L. Pierce and R. Acevedocruz<sup>†</sup>. 2018. Holloman AFB Reptile and Amphibian surveys. Submitted to Department of Defense.
32. Latella, I.M., C.W. Painter, T.J. Hibbitts and **W.A. Ryberg**. 2018. A Review of the Status of the Desert Massasauga, *Sistrurus catenatus edwardsii*, on Kirtland Air Force Base, Bernalillo County, New Mexico Results of the Tenth Year. Submitted to Department of Defense.
31. **Ryberg, W. A.** 2018. Determination of optimal fire return interval for maintenance of glade-woodland plant and wildlife populations. Submitted to Missouri Department of Conservation.
30. Adams, C. S., D. B. Neuharth, **W. A. Ryberg**, T. J. Hibbitts, T. E. Johnson\*, and S. L. Frizzell. 2018. Herpetofaunal surveys for Naval Air Station Kingsville, Dixie Target Range, and Navy Auxilliary Landing Field at Orange Grove. Submitted to Department of Defense.
29. LaDuc, T.J., B.D. Wolaver, J.P. Pierre, C.M. Duran, B.J. Labay, **W.A. Ryberg**, T.J. Hibbitts, C.E. Roelke, M.K. Fujita, I.M. Wright, G. Surya, C.J. Shank, P. Holloway, J.R. Andrews, S.A. Ikonnikova, G. McDaid. 2018. Collaborative Research on the Natural History of the Enigmatic Spot-tailed Earless Lizard (*Holbrookia lacerata*) in Texas. Final Report submitted to the Texas Comptroller of Public Accounts.
28. **Ryberg, W. A.** 2018. Determination of optimal fire return interval for maintenance of glade-woodland plant and wildlife populations. Submitted to National Park Service.
27. Walkup, D. K., **W. A. Ryberg**, and T. J. Hibbitts. 2018. Movement, Home Range, and Habitat Use of the Spot-tailed Earless Lizard (*Holbrookia lacerata*). Submitted to Texas Parks and Wildlife.
26. Bowers, B. C., D. K. Walkup, **W. A. Ryberg**, and T. J. Hibbitts. 2018. Movements, Home Range, Activity Patterns, and Habitat Selection of the Western Chicken Turtle (*Deirochelys reticularia miaria*) in Texas. Annual report submitted to Texas Parks and Wildlife.
25. **Ryberg, W. A.**, D. K. Walkup, K. Skow, and T. J. Hibbitts. 2018. Value of Research Report - Assessing Traffic Threats for Amphibian and Reptile Species of Greatest Conservation Need on Texas Roadways. Value of Research Report 2018. Submitted to Texas Department of Transportation.
24. Walkup, D. K., K. L. Skow, T. J. Hibbitts, **W. A. Ryberg**, and R. R. Lopez. 2018. Technical Memo 2: Assessing Traffic Threats for Amphibian and Reptile Species of Greatest Conservation Need on Texas Roadways. Submitted to Texas Department of Transportation.

23. **Ryberg, W.A.**, A.M. Lawing, and T.J. Hibbitts. 2017. Habitat Conservation Forecasting for the Western Massasauga (*Sistrurus tergeminus*) in New Mexico. Final Report Submitted to New Mexico Department of Game and Fish.
22. Latella, I.M., C.W. Painter, T.J. Hibbitts and **W.A. Ryberg**. 2017. A Review of the Status of the Desert Massasauga, *Sistrurus catenatus edwardsii*, on Kirtland Air Force Base, Bernalillo County, New Mexico Results of the Ninth Year. Submitted to Department of Defense.
21. Neuharth, D., S. Frizzell, T. Johnson\*, J. Kachel, C.S. Adams, D.K. Walkup<sup>†</sup>, T.J. Hibbitts, and **W.A. Ryberg**. 2017. Herpetofaunal Surveys for Laughlin Air Force Base with emphasis on the Spot-tailed Earless Lizard. Final report submitted to Department of Defense.
20. Hibbitts, T.J., and **W.A. Ryberg**. 2017. Home Range Size, Habitat Use, and Systematics of the Reticulate Collared Lizard, *Crotaphytus reticulatus* in Southern Texas. Final Report Submitted to Texas Parks and Wildlife Department.
19. Latella, I.M., C.W. Painter, T.J. Hibbitts and **W.A. Ryberg**. 2016. A Review of the Status of the Desert Massasauga, *Sistrurus catenatus edwardsii*, on Kirtland Air Force Base, Bernalillo County, New Mexico Results of the Eighth Year. Submitted to Department of Defense.
18. **W.A. Ryberg**, D.K. Walkup<sup>†</sup>, M.E. Young<sup>†</sup>, L.A. Fitzgerald, and T.J. Hibbitts. 2016. Best Practices for Managing Dunes Sagebrush Lizards in Texas. Submitted to Endangered Species Task Force, Texas Comptroller of Public Accounts.
17. **W.A. Ryberg**, D.K. Walkup<sup>†</sup>, L.A. Fitzgerald, and T.J. Hibbitts. 2016. Dunes Sagebrush Lizard Final Report. Submitted to Endangered Species Task Force, Texas Comptroller of Public Accounts.
16. Hibbitts, T.J., and **W.A. Ryberg**. 2016. Assessing viability of the Spot-tailed Earless Lizard in Texas. Submitted to University of Texas – Austin, Endangered Species Task Force, Texas Comptroller of Public Accounts.
15. Hibbitts, T.J., **W.A. Ryberg**, and Timothy Garrett<sup>†</sup>. 2016. Home Range Size, Habitat Use, and Systematics of the Reticulate Collared Lizard, *Crotaphytus reticulatus* in Southern Texas. Submitted to Texas Parks and Wildlife Department.
14. Hibbitts, T.J., J.B. Pierce, D.C. Rudolph, and **W.A. Ryberg**. 2016. Endangered species research projects on the Louisiana Pine Snake. Submitted to Endangered Species Task Force, Texas Comptroller of Public Accounts.
13. **Ryberg, W.A.**, B.D. Wolaver, H.L. Prestridge, B.J. Labay, J.P. Pierre, R.A. Costley, C.S. Adams, B.C. Bowers, and T.J. Hibbitts. 2015. Habitat modeling and conservation of the Western Chicken Turtle (*Deirochelys reticularia miaria*). Submitted to Endangered Species Task Force, Texas Comptroller of Public Accounts.
12. **Ryberg, W.A.**, and T.J. Hibbitts. 2014. Effects of Land Use Practices on Populations of Spot-tailed Earless Lizards (*Holbrookia lacerata*) in Texas. Submitted to Institute of Renewable Natural Resources.
11. Walkup<sup>†</sup>, D.K., **W.A. Ryberg**, D.J. Leavitt<sup>†</sup>, and L.A. Fitzgerald. 2014. Final Report: Effects of Landscape fragmentation on the Mescalero dune landscape and populations of the Dunes Sagebrush Lizard, *Sceloporus arenicolus*. Submitted to Bureau of Land Management, Carlsbad Office.
10. **Ryberg, W.A.**, A. Blick\*, J. Harvey<sup>†</sup>, T.J. Hibbitts, and G. Voelker. 2013. Genetic determination of the Desert Massasauga (*Sistrurus catenatus catenatus*) distribution in Texas. Submitted to Texas Parks and Wildlife Department.

9. Hibbitts, T.J., and **W.A. Ryberg**. 2013. Effects of fragmentation on Dunes Sagebrush Lizard populations and microhabitat use. Submitted to Institute of Renewable Natural Resources.
8. Walkup<sup>†</sup>, D.K., **W.A. Ryberg**, D.J. Leavitt<sup>†</sup>, and L.A. Fitzgerald. 2012. Effects of landscape fragmentation on the Mescalero dune landscape and populations of the Dunes Sagebrush Lizard, *Sceloporus arenicolus*. Submitted to Bureau of Land Management, Carlsbad Office.
7. **Ryberg, W.A.**, and L.A. Fitzgerald. 2011. Source-sink dynamics in a population of the Dunes Sagebrush Lizard (*Sceloporus arenicolus*) at Caprock Wildlife Area. Submitted to Bureau of Land Management, Carlsbad Office.
6. **Ryberg, W.A.**, and L.A. Fitzgerald. 2011. Effects of management practices for oil and gas development on populations of the Dunes Sagebrush Lizard (*Sceloporus arenicolus*) in Texas. Submitted to Bureau of Land Management, Carlsbad Office.
5. Fitzgerald, L.A., C.W. Painter, T.J. Hibbitts, **W.A. Ryberg**, N. Smolensky<sup>†</sup>. 2011. The range and distribution of *Sceloporus arenicolus* in Texas. Submitted to Institute of Renewable Natural Resources.
4. **Ryberg, W.A.**, and L.A. Fitzgerald. 2010. Spatial variation in vital rates and movement rates across six populations of the Dunes Sagebrush Lizard (*Sceloporus arenicolus*) at Caprock Wildlife Area. Submitted to Bureau of Land Management, Carlsbad Office.
3. **Ryberg<sup>†</sup>, W.A.**, and L.A. Fitzgerald. 2003. Herpetofaunal Inventory of Fort Wolters in North-Central Texas. Submitted to Texas Army National Guard-Division of Natural Resources.
2. Honeycutt, R.L., K. Banks<sup>†</sup>, L.A. Fitzgerald, **W.A. Ryberg<sup>†</sup>**, T.J. Hibbitts<sup>†</sup>, F.P. Gelwick, B. Healey, J. Cathey, and J. Gunnels. 1999. Monitoring Amphibians, Reptiles, Fishes, and Mammals at Richland Creek Wildlife Management Area. Submitted to Texas Parks and Wildlife Department.
1. Fitzgerald, L.A., **W.A. Ryberg<sup>†</sup>**, R. Knipe. 1999. Baseline Monitoring of Amphibians and Reptiles at Keechi Creek Wildlife Management Area. Submitted to Texas Parks and Wildlife Department.

## **GRADUATE AND UNDERGRADUATE STUDENT MENTORING**

13. Corey Fielder (BSc) – 2019. Genomics, Morphology, and Niche Modeling for the Western Massasauga (*Sistrurus tergeminus*). Texas A&M University
12. Andrew Feltmann (MSc) – 2019. Effects of Performance Trade-offs on Phenotypic Covariation in the Eastern Collared Lizard (*Crotaphytus collaris*). University of Central Arkansas, Committee Member (Chair – M. Gifford)
11. Danielle Walkup (PhD) – 2018. Spatial population dynamics of the Dunes Sagebrush Lizard under different levels of landscape alteration. Texas A&M University, Committee Member (Co-Chairs – T. Hibbitts and L. Fitzgerald)
10. Timothy Johnson (BSc) – 2017. Endangered species research on the Louisiana Pine Snake and Spot-tailed Earless Lizard. Texas A&M University
9. Timothy Garrett (MSc) – 2016. Phylogenetics, movement, and habitat use of the Reticulate Collared Lizard (*Crotaphytus reticulatus*) in Texas. Texas A&M University, Committee Member (Co-Chairs – T. Hibbitts and G. Voelker)
8. Logan Ediger (BSc) – 2015. Substrate utilization among the dunes sagebrush lizard and its relationship with two sympatric. West Texas A&M University



7. Anna Blick (BSc) – 2014. Genetic determination of the Desert Massasauga (*Sistrurus catenatus edwardsii*) in Texas. Texas A&M University
6. Bianca Martinez (BSc, Louis Stokes Alliance for Minority Participation) – 2013. Nesting ecology of Dunes Sagebrush Lizard (*Sceloporus arenicolus*). Texas A&M University
5. Aubany Fields (BSc) – 2012. Microhabitat use of the Dunes Sagebrush Lizard (*Sceloporus arenicolus*) in fragmented and unfragmented habitat. Texas A&M University
4. Connor Adams (BSc) – 2012. Microhabitat use of the Dunes Sagebrush Lizard (*Sceloporus arenicolus*) in fragmented and unfragmented habitat. Texas A&M University
3. Daniel Lay (BSc) – 2011. Reproductive biology and microhabitat use of the Dunes Sagebrush Lizard (*Sceloporus arenicolus*). Texas A&M University
2. Genevieve Pang (BSc) – 2008. Host distributions of juvenile black-legged ticks in Missouri. Washington University in St. Louis, Co-advised with B.F. Allan at University of Illinois
1. Daniel Oppenheimer (BSc) – 2005. Habitat fragmentation alters food web dynamics in old-field ecosystems. Washington University in St. Louis

## **TEACHING EXPERIENCE**

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- 2011 Instructor, Herpetology (Wildlife and Fisheries 315), Texas A&M University.  
Instructor, Field Herpetology (Wildlife and Fisheries 316), Texas A&M Univ.
- 2008 Teaching Assistant, Community Ecology (Biology 419), Washington University.  
Teaching Assistant, Practical Skills Ecology (Biology 295), Washington University.
- 2007 Teaching Assistant, Experimental Ecology (Biology 4193), Washington University.
- 2006 Teaching Assistant, Community Ecology (Biology 419), Washington University.
- 2005 Teaching Assistant, Experimental Ecology (Biology 4193), Washington University.
- 2004 Teaching Assistant, Ecology (Biology 381), Washington University.
- 2002 Teaching Assistant, Herpetology (Wildlife and Fisheries 315), Texas A&M Univ.
- 2001 Teaching Assistant, Chordate Anatomy (Biology 318), Texas A&M University.  
Teaching Assistant, Herpetology (Wildlife and Fisheries 315), Texas A&M Univ.
- 2000 Teaching Assistant, Chordate Anatomy (Biology 318), Texas A&M University.

## **INVITED SEMINARS**

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- 2015 Department of Biology, University of Texas - Tyler:  
*Predation, community assembly, and the scaling of prey diversity*
- 2014 Department of Wildlife and Fisheries Sciences, Texas A&M University:  
*Genetic determination of the Desert Massasauga distribution in Texas*
- 2012 Department of Ecology & Evolutionary Biology, Rice University:  
*Predation, community assembly, and the scaling of prey diversity*
- 2011 Department of Entomology, University of Illinois:  
*Predation, community assembly, and the scaling of prey diversity*
- 2010 Department of Biology, Trinity University:  
*Predation, community assembly, and the scaling of prey diversity*
- 2010 Department of Wildlife and Fisheries Sciences, Texas A&M University:  
*Predation, community assembly, and the scaling of prey diversity*
- 2009 School of Forestry and Wildlife Sciences, Auburn University:  
*Predation, community assembly, and the scaling of prey diversity*

## **PRESENTATIONS (reduced list)**

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2015-present	Texas Chapter of the Wildlife Society 4 first-author presentations, 20 co-authored presentations
2012-present	Texas Herpetological Society 6 first-author presentations, 17 co-authored presentations
2004-present	Annual Meeting of the Ecological Society of America 9 first-author presentations, 3 co-authored presentations
1999-present	World Congress of Herpetology or joint meeting with ASIH, HL, SSAR 8 first-author presentations, 12 co-authored presentations
1999-present	Miscellaneous Symposia 7 first-author presentations, 17 co-authored presentations

## **AWARDS, SERVICE, OUTREACH, AND PROFESSIONAL ASSOCIATIONS**

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2018-present	National Military Fish and Wildlife Association (NMFWA)
2018-present	Partners in Amphibian and Reptile Conservation (DOD)
2015-present	Texas Chapter of the Wildlife Society (TCTWS)
1999-present	Texas Herpetological Society (THS) Secretary/Treasurer, Past-President
1999-present	Reviewer for <i>American Naturalist</i> , <i>Ecography</i> , <i>Ecology</i> , <i>Ecology Letters</i> , <i>Herpetological Review</i> , <i>Journal of Animal Ecology</i> , <i>Journal of</i> <i>Biogeography</i> , <i>Journal of Experimental Zoology</i> , <i>Journal of Fish and</i> <i>Wildlife Management</i> , <i>Journal of Herpetology</i> , <i>Journal of Insect Science</i> , <i>Journal of Plant Ecology</i> , <i>National Science Foundation</i> , <i>Oecologia</i> , <i>Oikos</i> , <i>PLoS One</i> , <i>Southwestern Naturalist</i> , <i>Texas Journal of Science</i> , <i>Western</i> <i>American Naturalist</i>