

Curriculum Vitae

Aaron W. Schrey

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Employment

- 2018-Present Associate Professor, Georgia Southern University Armstrong Campus, Savannah GA
- 2012-2018 Assistant Professor, Armstrong State University (2018 name changed to GSU Armstrong Campus), Savannah GA

Education

- 2007 Ph.D. Zoology, Southern Illinois University, Carbondale IL
- 2001 M.S. Zoology, Southern Illinois University, Carbondale IL
- 1999 B.S. Biology, University of Evansville, Evansville IN

Publications

50. Sheldon, E., Schrey AW, Ragsdale, AK, Griffith S. (*Accepted*) Brood size influences genome-wide DNA methylation levels in wild zebra finches (*Taeniopygia guttata*). *Auk*
49. Craven KS, Webb C, Ragsdale AK, and AW Schrey (*Accepted*) An investigation of reproductive traits in the spiny dogfish (*Squalus acanthias*) off the Georgia/South Carolina coast using microsatellite analysis. *BIOS*
48. Sheldon E, Ragsdale AK, Schrey AW, and S Griffith. (2018) Epigenetic and genetic variation among three separate introductions of the house sparrow (*Passer domesticus*) into Australia. *Royal Society Open Science*. 5:172185.
47. Robertson M, Schrey A, Shayter A, Meals C, and C Richards. (2017) Genetic and epigenetic variation in *Spartina alterniflora* following the Deepwater Horizon oil spill. *Evolutionary Applications*. 10: 792–801. doi. 10.1111/eva.12482
46. Riyahi S, Vilatersana R, Schrey A, Node H, Alibadian M, Senar JC (2017) Natural epigenetic variation within and among six subspecies of the House sparrow *Passer domesticus*. *Journal of Experimental Biology*. 220: 4016-4023 doi:10.1242/jeb.169268
45. Sotola VA, Schrey AW, Ragsdale AK, Whitledge GW, Frankland L, Bollinger EK, and RE Colombo (2017) Genetic evidence of isolation by distance and impact of impoundments

- among Channel Catfish. Transactions of the American Fisheries Society. 146 1204-1211, doi: 10.1080/00028487.2017.1362471
44. Kilvitis HJ, Hanson H, Schrey AW, Martin LB (2017) Epigenetic potential as a mechanism of phenotypic plasticity in vertebrate range expansions. Integrative and Comparative Biology. 57: 385-395.
 43. Hashemi RR, Bahrami AA, Young JA, and A Schrey (2017) An ecological-based genetic investigation using association analysis approach BIOCOMP'16. Proceedings of the 17th International Conference on Bioinformatics and Computational Biology.
 42. Zettler JA, Adams K, Frederick B, Gutting A, Ingebretsen N, Ragsdale A, and A Schrey (2017) Genetic structure of *Pseudococcus microcirculus* (Hemiptera: Pseudococcidae) populations on epiphytic orchids of South Florida. Journal of Genetics. 96: 33-38.
 41. Ragsdale AK, Frederick BM, Dukes DW, Liebl AL, Ashton KG, McCoy ED, Mushinsky HR, and AW Schrey. (2016) Fire increases genetic diversity of populations of Six-lined Racerunner. Journal of Heredity. 107: 654-659.
 40. Gervasi SS, Burkett-Cadena N, Burgan SC, Schrey AW, Hassan HK, Unnasch TR, and L. B. Martin (2016) Host stress hormones alter vector preference, feeding success and subsequent productivity. Proceedings of the Royal Society B. 283: 20161278
 39. Alvarez M, Foust C, Robertson M, Ainouche M, de Carvalho J, Meals C, Preite V, Salmon A, Shayter A, Schrey A, Verhoeven K, and C Richards (2016) Molecular response to challenging environmental conditions in *Spartina alterniflora*: an integrated approach. Proceedings of the International Conference on Invasive Spartina. 2016 Université de Rennes 1, Rennes France.
 38. Schrey A, Robbins T, Lee JD, Dukes DW, Ragsdale A, Thawley C, and T Langkilde (2016) Epigenetic response to habitat change: changes variation in DNA methylation frequencies and generational transmission vary with invasion status. Environmental Epigenetics 2016, 1-5. doi: 10.1093/eep/dvw008
 37. Schrey A, Ragsdale AK, McCoy E, and H Mushinsky. (2016) Fire-based habitat disturbances can decrease effective population size of local populations. Journal of Heredity. 107:336-341. doi: 10.1093/jhered/esw016
 36. Foust C, Preite V, Schrey A, Verhoeven K, and C Richards (2016) Genetic and epigenetic differences associated with environmental gradients in replicate populations of two salt marsh perennials. Molecular Ecology. 25:1639-1652. doi: 10.1111/mec.13522
 35. Hashemi RR, Bahrami AA, Swain Jr. D, Schrey A, and NR Tyler (2016) A DNA based migration modeling of the lizards in Florida scrub habitat. Chapter 11 in: Emerging Trends in Applications and Infrastructures for Computational Biology, Bioinformatics,

and Systems Biology: Systems and Applications 2nd edition. Edited by Tran QN and Arabnia HR. Elsevier, Cambridge MA.

34. Schrey A, Evans RK, Netherland M, Ashton K, Mushinsky H, and E McCoy (2015) Phylogeography of the Peninsula Crowned Snake (*Tantilla relicta relicta*) on the Lake Wales Ridge in central Florida. *Journal of Herpetology* 49: 415-419.
33. Fisher KL, Recupero DL, Schrey AW, and MJ Draud (2015) Molecular Evidence of Long Wavelength Spectral Sensitivity in the Reverse Sexually Dichromatic Convict Cichlid (*Amatitlania nigrofasciata*). *Copeia* 103: 546-551.
32. Liebl AL, Schrey A, Andrews SC, Sheldon E, and SC Griffith. (2015) Invasion genetics: lessons from a ubiquitous bird, the house sparrow (*Passer domesticus*). *Current Zoology*. 61(3): 465–476.
31. Alvarez M, Schrey AW, and CL Richards (2015) Ten years of transcriptomics in wild populations: what have we learned about their ecology and evolution? *Molecular Ecology*. 24(4): 710-725 DOI: 10.1111/mec.13055.
30. Nicotra AB, Segal D, Hoyle GL, Schrey AW, Verhoeven KJF, Richards CL. Adaptive plasticity and epigenetic variation in response to warming in an Alpine plant (2015) *Ecology and Evolution*. 5(3): 634-647.
29. Foust CM, Schrey AW, and CL Richards (2015) Population epigenomics. In "Nuclear Functions in Plant Transcription, Signaling and Development" Edited by Jin, H. and O Pontes. Wiley-Blackwell John Wiley & Sons. ISBN 978-1-4939-2385-4
28. Schrey A, Banta J, Kilvitis H, and CL Richards. (2014) The role of ecogenetics in integrative biology. Chapter 7. In Martin, L. B., Ghalambor C. K., and H. A. Woods. *Integrative Organismal Biology* ISBN: 978-1-118-39878-4
27. Kilvitis H, Alvarez M, Foust C, Richards CL, Robertson M, and A Schrey. (2014) Ecological epigenetics. In "Ecological and Evolutionary Genomics". Edited by Landry, C. and N. Aubin-Horth.
26. Robbins T, Walker L, Gorospe K, Karl S, Schrey A, McCoy E, and H Mushinsky (2014) Aggression, mate choice, and secondary succession: the rise and fall of a hybrid zone. *Journal of Heredity*. 105: 226-236.
25. Schrey A, Liebl A, Richards C, and L Martin (2014) Range expansion of Kenyan house sparrows (*Passer domesticus*): evidence of genetic admixture and human-mediated dispersal. *Journal of Heredity*. 105: 60-69
24. Martin L, Coon C, Liebl A, and A Schrey (2014) Surveillance for microbes and range expansion in house sparrows. *Proceedings of the Royal Society B*. 281: 20132690.

23. Robbins TR, Schrey A, McGinley S, and A Jacobs. (2013) On the incidences of cannibalism in the lizard genus *Sceloporus*: updates, hypotheses, and the first case of siblicide. *Herpetology Notes*. 6: 523-528.
22. Schrey A, Alvarez M, Foust CM, Kilvitis HJ, Lee JD, Liebl AL, Martin LB, Richards CL, and M Robertson. (2013) Ecological Epigenetics: beyond MS-AFLP. *Integrative and Comparative Biology*. 53: 340-350.
21. Liebl A, Schrey A, Richards C, and L Martin (2013) Patterns of DNA methylation throughout a range expansion of an introduced songbird. *Integrative and Comparative Biology*. 53: 351-358.
20. Lima M, Macedo R, Martins T, Schrey A, Martin L, and S Bensch. (2012) Genetic and morphometric divergence of an invasive bird: the introduced house sparrow (*Passer domesticus*) in Brazil. *PLoS ONE* 7(12): e53332. doi:10.1371/journal.pone.0053332.
19. Heath S, Schrey A, Ashton KG, McCoy ED, and HR Mushinsky (2012) Contrasting genetic differentiation of a poorly dispersing lizard in connected and fragmented scrub habitats. *Journal of Herpetology*, 46: 602-607.
18. Schrey A. and CL Richards (2012) PERSPECTIVE: Within-genotype epigenetic variation underlies the phenotypic plasticity that allows for a broad niche width. *Molecular Ecology*. 21: 2559–2561.
17. Schrey A, Heath S, Ashton K, Mushinsky H, and E McCoy (2012) Range-wide genetic analysis of the threatened Bluetail Mole Skink identifies similar genetic structure with sympatric lizards. *Journal of Herpetology*. 46: 241-247.
16. Richards C, Schrey A, and M Pigliucci (2012) Invasion of diverse habitats by few Japanese knotweed genotypes is correlated with epigenetic differentiation. *Ecology Letters*, 15:1016-25.
15. Ennen JR, Kreiser BP, Qualls CP, Gaillard D, Aresco M, Birkhead R, Tuberville T, McCoy E, Mushinsky H, Hentges B, and A Schrey (2012) A mitochondrial DNA reassessment of the phylogeography of the Gopher Tortoise. *Journal of Fish and Wildlife Management*. 3: 110-122.
14. Smiley S, McCoy E, Schrey A, and H Mushinsky (2012) Utilizing a multifaceted approach to assess the current distribution and conservation status of an uncommon species: the golden mouse (*Ochrotomys nuttalli*) in Florida. *Diversity and Distributions*. 18: 1120–1129.
13. Schrey A, Coon C, Grispo M, Awad M, McCoy E, Mushinsky H, Richards C, and L Martin (2012) Epigenetic variation may compensate for decreased genetic variation with introductions: a case study using house sparrows (*Passer domesticus*) on two continents.

Genetics Research International. Volume 2012, Article ID 979751, 7 pages.
doi:10.1155/2012/979751.

12. Schrey A, Fox A, McCoy E, and H Mushinsky (2011) Fire increases variance in genetic characteristics of Florida Sand Skink (*Plestiodon reynoldsi*) local populations. *Molecular Ecology*. 20: 56-66.
11. Schrey A, Heath S, Ashton K, McCoy E, and H Mushinsky (2011) Fire alters patterns of genetic diversity among three lizard species in Florida scrub habitat. *Journal of Heredity*. 102: 399-408.
10. Schrey N, Schrey A, Heist E, and J Reeve (2011) Genetic heterogeneity in a cyclical forest pest, the southern pine beetle (*Dendroctonus frontalis*), is differentiated into east and west groups in the southeastern United States. *Journal of Insect Science*. 11:110 available online: insectscience.org/11.110.
9. Schrey A, Grispo M, Awad M, Cook M, McCoy E, Mushinsky H, Albayrak T, Bensch S, Butler L, Fokidis H, Jensen H, Imboma T, Kessler-Rios M, Marzal A, Stewart I, Westerdahl H, Westneat D, Zehindjiev P, and L Martin (2011) Broad-scale latitudinal patterns of genetic diversity among native European and introduced house sparrow (*Passer domesticus*) populations. *Molecular Ecology*. 20: 1133-1143.
8. Schrey A, Boley R, and E. Heist (2011) Hybridization between pallid and shovelnose sturgeon. *Journal of Fish Biology*. 79: 1828–1850.
7. Schrey A, Colombo R, Garvey J, and E Heist (2009) Shovelnose sturgeon (*Scaphirhynchus platorhynchus*) stock structure within the Mississippi River drainage. *Journal of Applied Ichthyology*. 25: 625-631.
6. Schrey N, Schrey A, Heist E, and J Reeve (2008) Fine-scale genetic population structure of southern pine beetle in Mississippi forests. *Environmental Entomology*. 37: 271-276.
5. Schrey N, Schrey A, Heist E, and J Reeve (2007) Microsatellite loci for the southern pine beetle (*Dendroctonus frontalis*) and cross-species amplification in *Dendroctonus*. *Molecular Ecology Notes*. 7: 857-859.
4. Schrey A, and E Heist (2007) Stock structure of pallid sturgeon analyzed with microsatellite loci. *Journal of Applied Ichthyology*. 23: 297-303.
3. Schrey A, Sloss B, Sheehan R, Heidinger R, and E Heist (2007) Genetic discrimination of middle Mississippi River pallid sturgeon and shovelnose sturgeon with multiple microsatellite loci. *Conservation Genetics*. 8: 683-693.
2. Schrey A, and E Heist (2003) Microsatellite analysis of population structure in the shortfin mako (*Isurus oxyrinchus*). *Canadian Journal of Fisheries and Aquatic Sciences*. 60: 670-675.

1. Schrey A, and E Heist (2002) Microsatellite markers for the shortfin mako and cross-species amplification in Lamniformes. *Conservation Genetics*. 3: 459-461.

Presentations

*Oral: (*presenting author)*

77. *Schaick SJ, Moody-Carpenter CJ, Schrey A, Miller K, Wahl DH, Colombo RE. (2018) Silver Carp Population Genetics from Tributaries of a Large Midwestern River. Annual Meeting of the AFS
76. *Hanson H, Kilvitis HJ, Schrey AW, Martin LB. (planned 2018) Epigenetic potential in native and introduced populations of house sparrows (*Passer domesticus*). 27th International Ornithological Conference
75. *Craven KS, Webb C, Ragsdale AK, Schrey AW (2018) Investigation of the reproductive traits in the spiny dogfish (*Squalus acanthias*) off the GA/SC coast using microsatellite analysis. ASB
74. *Hanson H, Kilvitis HJ, Schrey AW, Martin LB. (2018) Epigenetic potential in native and introduced populations of house sparrows. SICB
73. *Schrey, A. (2017) Molecular ecology and ecological epigenetics in altered environments. Research Methods Seminar, Armstrong State University.
72. *Heist E, Schrey A, Kingsland K, Saltzgiver M, Boley R, Brown P, Krampe M, Kashiwagi T, Krahl E, Doias J (2017) Conservation, procreation and introgression in sturgeons of the genus *Scaphirhynchus* in the Mississippi and Missouri River basins. AFS
71. Krahl E, Schrey A, Tong J, Heist E (2017) Invasive Asian Carp: The role of epigenetics in the successful establishment of Silver and Bighead Carp in Illinois. JMIH
70. *Schrey, A. (2017) Ecological epigenetics of non-model organisms. Invited Seminar Southern Illinois University Carbondale.
69. Martin LB, Schrey AW, Hanson HE, Kilvitis HJ (2017) The role of physiological integrators in avian range expansions. SICB
68. *Schrey, A. (2016) Ecological epigenetics of non-model organisms. Invited Seminar University of South Dakota.
67. *Gervasi SS, Burkett-Cadena ND, Burgan S, Schrey A, Unnasch TR, and LB Martin (2016) The role of stress hormones on avian host competence for West Nile virus. ESA

66. *Schrey A. (2016) Epigenetics: a mechanism for rapid adaptation and response to environmental change. Invited Seminar Department Integrative Biology at University of South Florida.
65. *Gervasi S, Burgan S, Burkett-Cadena N, Schrey A, Hassan H, Unnasch T, and Lynn Martin (2016) Vector preferences and host defenses in the West Nile virus system. Can avian stress hormones promote zoonotic disease spread? Annual Meeting of the Society of Integrative and Comparative Biology.
64. *Sotola VA, Schrey A, Bollinger E, Frankland L, R Colombo (2016) Genetic population structure and genetic diversity of adult channel (*Ictalurus punctatus*) and blue (*I. furcatus*) catfish in two large Midwestern rivers. Midwest Fisheries and Wildlife Meeting
63. *Kilvitis, HJ, Schrey, AW, and LB Martin (2016) Epigenetic regulation of Toll-like Receptor 4 (TLR-4) expression as a facilitator of invasiveness in Kenyan house sparrows (*Passer domesticus*). Annual Meeting of the Society of Integrative and Comparative Biology.
62. *Kilvitis, H.J., Boruta, M., Schrey, A.W., Richards, C.L. and L.B. Martin (2015) The effects of early-life stressors on sickness behavior in adulthood in zebra finches. USF Postdoctoral and Graduate Student Research Symposium
61. *Sotola, V. A., Schrey, A., Bollinger, E., Frankland, L., and R. E. Colombo (2015) Genetic stock structure of juvenile channel (*Ictalurus punctatus*) and blue (*Ictalurus furcatus*) catfish in a large unimpounded Midwestern river. Annual Meeting of the American Fisheries Society.
60. *Sotola, A., Aaron Schrey, A., Bollinger, E., Rayford, S., Frankland, L., and Robert E. Colombo (2015) Timing and location of spawning events and genetic population structure of juvenile Channel (*Ictalurus punctatus*) and Blue (*Ictalurus furcatus*) Catfish in the Wabash River. Annual meeting of the Illinois Chapter of the American Fisheries Society.
59. *Foust, C.M., Preite, V., Schrey, A.W., Verhoeven, K.J.F., and C.L. Richards. (2014) Epigenetic population structure associated with natural salinity gradients across five natural populations of *Spartina alterniflora*. International Conference on Invasive *Spartina*. University of Rennes, Rennes, France.
58. *Robertson. M., Schrey, A., Shayter, A., Meals, C., and C. Richards. (2014) Population genetic and epigenetic response to oil stress in *Spartina alterniflora*. International Conference on Invasive *Spartina*. University of Rennes, Rennes, France.
57. *Schrey, A.W., Adams, K., Bongang, J., Brunner, E., Lee, J., Ashton, K., McCoy, E., and H. Mushinsky (2014) The effect of fire-based habitat disturbances on the genetic characteristics of Florida scrub herpetofauna. Annual Meeting of the American Society of Ichthyology and Herpetology.

56. *Foust, C., Preite, V., Schrey, A., Verhoeven, K., and C. Richards. (2014) Pure epigenetic population structure among natural population of *Spartina alterniflora*. Society of Molecular Biology and Evolution.
55. *Kilvitis, H.J., Boruta, M., Liebl, A.L., Richards, C.L., Schrey, A.W., and L.B. Martin. 2014. Behavioral epigenetics of avian immunity. NSF Research Coordination Network in Ecoimmunology, Woods Hole, MA.
54. *Martin, L., Brace, A., Coon, C., Cooper, L., Fasenello, V., Haussmann, M., Imboma, T., Kilvitis, H., Mutati, O'Brien, S., Richards, S., Schrey, A., and A. Liebl. (2014) The physiology of range expansion. NSF Research Coordination Network in Ecophysiology Meeting, Woods Hole, MA.
53. *Lee, J., Robbins, T., Langkilde, T., and A. Schrey (2014) Epigenetic response to invasive species: Short term potential of DNA methylation. Southern Region Honors Council.
52. *Schrey, A. (2013) Conservation genetics of Florida scrub reptiles and Ecological epigenetics in invasion biology. Invited Research Seminar. Eastern Illinois University, Biological Science Graduate Student Association
51. *Martin, L., Coon, C., Brace, A., Schrey, A., Richards, C., and A. Liebl. (2013) Mechanisms of range expansion in one of the world's most common urban birds, the house sparrow. The Wildlife Society Annual Meeting.
50. *Fox, A. Schrey, A., McCoy, E., and H. Mushinsky (2013) Are roads a barrier to gene flow in a sand burrowing lizard, the Florida Sand Skink, *Plestiodon reynoldsi*? Annual Meeting of the Society of Integrative and Comparative Biology.
49. *Richards, C., Boruta, M., Bossdorf, O., Coon, C., Foust, C., Hughes, R., Kilvitis, H., Liebl, A., Nicotra, A., Pigliucci, M., Robertson, M., and A. Schrey (2013) Epigenetic mechanisms of phenotypic plasticity. Invited Presentation at Ecological Epigenetics Symposium at the Annual Meeting of the Society of Integrative and Comparative Biology.
48. *Liebl, A., Schrey, A., Richards, C., and L. B. Martin (2013) Epigenetic variation: a mechanism to overcome reduced diversity in novel environments? Invited Presentation at Ecological Epigenetics Symposium at the Annual Meeting of the Society of Integrative and Comparative Biology.
47. *Schrey, A., Alvarez, M., Foust, C., Kilvitis, H., Liebl, A., Martin, L. B., Richards, C., and M. Robertson (2013) Ecological Epigenetics: Beyond MS-AFLP. Invited Presentation at Ecological Epigenetics Symposium at the Annual Meeting of the Society of Integrative and Comparative Biology.

46. *Martin, L. B., Coon, C. A. C., Schrey, A., Richards, C. L., and A. L. Liebl (2012) Physiological mechanisms of range expansion in the house sparrow. 10th International Symposium on Avian Endocrinology.
45. *Foust, C. M., Schrey, A., and C. L. Richards (2012) Genetic and epigenetic variation in *Spartina alterniflora* across a salt gradient. Annual Meeting of the Florida Academy of Science.
44. *Schrey, A., Liebl, A. L., Richards, C. L., and L. B. Martin (2012) The relative significance of genetic and epigenetic diversity for house sparrow colonization of Kenya. Society of Integrative and Comparative Biology.
43. *Fox, A. M., Schrey, A. W., McCoy, E. D., and H. R. Mushinsky (2012) Comparison of genetic structure of the Florida Sand Skink, *Plestiodon reynoldsi* in homogeneous and heterogeneous scrub on Lake Wales Ridge in central Florida. 2012 Society of Integrative and Comparative Biology.
42. *Richards, C. L., Schrey, A., Bossdorf, O., and M. Pigliucci (2011) Mechanisms of phenotypic plasticity and rapid evolution in novel and changing environments. In: SYM020: Phenotypic plasticity in a changing climate. International Botanical Congress 2011, Melbourne AUS.
41. *Mushinsky, H., McCoy, E., and A. Schrey (2011) The value of enclosures when studying cryptic species. Annual Meeting of the American Society of Ichthyology and Herpetology. (A. Schrey is not a credited author in published abstracts).
40. *Fox, A., Schrey, A., McCoy, E., and H. Mushinsky (2011) Comparison of genetic structure of the Florida Sand Skink, *Plestiodon reynoldsi*, in homogeneous and heterogeneous scrub on Lake Wales Ridge in central Florida. Annual Meeting of the American Society of Ichthyology and Herpetology.
39. *Martin, L. B., Leibl, A. L., Coon, C. A. C., Richards, C. L., and A. W. Schrey (2011) Physiological mechanisms of range expansion in Kenyan house sparrows. Society for Integrative and Comparative Biology Annual Meeting.
38. *Richards, C.L. and A. Schrey (2010) Genetic and epigenetic responses to the oil spill in *Spartina alterniflora*. Gulf Coast Ecology Working Group meeting. Tallahassee, FL.
37. *Schrey, A. (2010) Conservation genetics of Florida scrub reptiles / Epigenetic variation among populations. Invited presentation to the University of South Florida Department of Integrative Biology Seminar Series.
36. *Schrey, A., and C. Richards (2010) The ecological importance of epigenetic variation: novel insights from three contrasting systems. Southeastern ecology, population biology, evolution, and genetics (SEPEEG)

35. *Richards, C., Schrey, A., Bossdorf, O., and M. Pigliucci (2010) Mechanisms of rapid evolution in novel and changing environments. Symposium: Plant invasions in a time of environmental change. Botanical Society of America. Invited seminar.
34. *Richards, C., and A Schrey (2010) Genetic and epigenetic responses to the oil spill in *Spartina alterniflora*. Gulf Coast Ecology Working Group meeting. Invited talk.
33. *Schrey A., Ashton K., Godley J. S., McCoy E., and H. Mushinsky (2010) Genetic analysis identifies two major barriers to gene flow within the Florida Sand Skink's distributions. Annual Meeting of the American Society of Ichthyology and Herpetology.
32. Schrey A., Boley R., and E. Heist* (2009) Hybridization between pallid and shovelnose sturgeon. 6th International Sturgeon Symposium.
31. *Colombo R., Garvey J., Killgore K., Koch J., Pegg M., Quist M., Schrey A., Sutton T., Travnichek V., Guy C., Klumb R., Caswell N., Hale S., Phelps Q., and B. Gardner (2009) Distribution, life history, and population status of the shovelnose sturgeon. Annual Meeting of the American Fisheries Society.
30. *Schrey A., Grispo M., Awad M., McCoy E., Mushinsky H., Albayrak T., Bensch S., Jensen H., Reynolds A., Westerdahl H., Zehindjiev P., and L. Martin (2009) Microsatellite analysis of population structure in the house sparrow. Annual Meeting of the American Ornithological Union.
29. *Smiley S. A., Schrey A., Mushinsky H. R., and E. D. McCoy (2009) Mitochondrial DNA variation in golden mice (*Ochrotomys nuttalli*) populations from fragmented and continuous landscapes. Annual Meeting of the American Society of Mammalogists.
28. *Schrey A., Fox A., McCoy E., and H. Mushinsky (2009) Effects of a managed burn regime on Florida Sand Skink analyzed with microsatellite loci. Annual Meeting of the American Society of Ichthyology and Herpetology.
27. *Fox A., Schrey A., McCoy E., and H. Mushinsky (2009) Genetic relatedness in the sand skink, *Plestiodon reynoldsi*, in the scrub of central Florida. Annual Meeting of the American Society of Ichthyology and Herpetology.
26. *Fox A., Schrey A., McCoy E., and H. Mushinsky (2009) Genetic relatedness in the sand skink, *Plestiodon reynoldsi*, in the scrub of central Florida. Annual Meeting of Society for Integrative and Comparative Biology.
25. *Schrey A., Fox A., McCoy E., and H. Mushinsky (2008) Florida Sand Skink Genetics. Lake Wales Ridge Ecosystem Working Group Summer Meeting.
24. *Schrey A., Fox A., McCoy E., and H. Mushinsky (2008) Genetic population structure of the Sand Skink (*Plestiodon reynoldsi*) within scrubs in Florida. Annual Meeting of the American Society of Ichthyologists and Herpetologists.

23. *Fox A., Schrey A., McCoy E., and H. Mushinsky (2008) Parentage analysis in the fossorial sand skink, *Plestiodon reynoldsi*. Annual Meeting of the American Society of Ichthyologists and Herpetologists.
22. *Fox A., Schrey A., McCoy E., and H. Mushinsky (2008) Genetic diversity and gene flow of the sand skink, *Plestiodon reynoldsi*, among continuous and interrupted scrub habitat. Annual Meeting of Southeastern Ecology and Evolution Conference.
21. *Fox A., Schrey A., E. McCoy and H. Mushinsky (2008) Genetic diversity and gene flow of the sand skink, *Plestiodon reynoldsi*, among continuous and interrupted scrub habitat. Annual Meeting of Society for Integrative and Comparative Biology.
20. *Schrey A. (2007) Conservation genetics of pallid and shovelnose sturgeon; assignment testing and forensic applications. Invited presentation to the University of South Florida Department of Biology, Division of Integrative Biology Seminar Series.
19. Schrey A., and E. J. Heist* (2007) Pallid sturgeon stock structure and hybridization; implications for stocking hatchery reared individuals. Invited presentation at the Sturgeon Symposium. Annual Meeting of the American Fisheries Society.
18. Schrey A., and E. J. Heist* (2007) Pallid sturgeon stock structure and hybridization. Annual Meeting of the American Society of Ichthyologists and Herpetologists.
17. Schrey A., and E. J. Heist* (2006) Hybridization and stock structure of pallid and shovelnose sturgeons inferred from multiple microsatellite loci. Annual Midwest Fish and Wildlife Meeting.
16. *Schrey A., and E. Heist (2006) Hybridization between pallid and shovelnose sturgeon. Invited presentation at the Genetic Section Symposium, Annual Meeting of the American Fisheries Society.
15. *Schrey A., and E. Heist (2006) Genetic discrimination of pallid and shovelnose sturgeon. Annual Meeting of the North American Native Fishes Association.
14. *Schrey A., and E. Heist (2006) Genetic stock structure of the pallid sturgeon. Annual Meeting of the Illinois Chapter of the American Fisheries Society.
13. *Schrey A., and E. Heist (2005) Geographic variation and stock structure of pallid and shovelnose sturgeons inferred from multiple microsatellite loci. Annual Meeting of the American Fisheries Society.
12. *Schrey A., and E. Heist (2005) Genetic discrimination of pallid (*Scaphirhynchus albus*) and shovelnose sturgeons (*S. platorhynchus*) using DNA microsatellite markers. *Scaphirhynchus* Conference.

11. *Schrey A., Colombo R., Sloss B., Garvey J., and E. Heist (2004) Genetic and morphologic investigation of shovelnose sturgeon from the middle Mississippi and Wabash rivers. Annual Meeting of the American Fisheries Society.
10. *Schrey A., and E. Heist (2004) Molecular investigations of pallid sturgeon and shovelnose sturgeon using assignment testing with multiple DNA microsatellite loci. Annual Midwest Fish and Wildlife Meeting.
9. *Schrey A., Heist E., Sheehan R., and R. Heidinger (2004) Genetic discrimination of pallid and shovelnose sturgeon. Annual Meeting of the Illinois Chapter of the American Fisheries Society.
8. *Schrey A., Heist E., Sheehan R., and R. Heidinger (2004) Genetic discrimination of pallid and shovelnose sturgeon. MICRA Sturgeon/Paddlefish Workgroup Meeting.
7. *Schrey A., Heist E., Sheehan R., and R. Heidinger (2003) Genetic discrimination of pallid and shovelnose sturgeon. Annual Meeting of the American Fisheries Society.
6. *Schrey A., Heist E., Sheehan R., and R. Heidinger (2003) Genetic discrimination of pallid and shovelnose sturgeon. Annual Meeting of the Illinois Chapter of the American Fisheries Society.
5. *Heist E., Schrey A., Sheehan R., and R. Heidinger (2003) Genetic discrimination of pallid and shovelnose sturgeon. Pallid Sturgeon Recovery Team Workshop Middle Basin.
4. *Heist E., Schrey A., Sheehan R., and R. Heidinger (2003) Genetic discrimination of pallid and shovelnose sturgeon. MICRA Sturgeon/Paddlefish Workgroup Meeting.
3. *Heist E., Keeney D. and A. Schrey (2002) Patterns of DNA microsatellite and mtDNA diversity in sandbar, blacktip, and shortfin mako sharks. Annual Meeting of the American Fisheries Society.
2. *Schrey A., and E. Heist (2001) Genetic population structure of the shortfin mako (*Isurus oxyrinchus*) inferred from multiple microsatellite markers. Annual Meeting of the American Elasmobranch Society.
1. Schrey A., and E. Heist* (2001) Genetic population structure of the shortfin mako (*Isurus oxyrinchus*) inferred from multiple microsatellite markers. Annual Meeting of the American Fisheries Society.

Poster

28. *Sheridan N, Seyoum S, Sharp W, Titus B, Daly M, Schrey A, Richards C. (2018) Population genomics of a monitored sea anemone (*Condylactis gigantea*) in Florida, U.S. PEQG.

27. *Martin LB, Schrey AW, Hanson HE, Kilvitis HJ (2017) The role of physiological integrators in avian range expansions. ICCE.
26. *Francis A, Hodgson J, Schrey A (2016) An introductory biology laboratory on form and function using hammerhead sharks. Annual Meeting of the American Society of Ichthyology and Herpetology.
25. *Gervasi SS, Burgan S, Burkett-Cadena ND, Schrey A, Hassan H, Unnasch TR, and LB Martin (2016) The role of stress hormones on avian competence to transmit West Nile virus. Ecology and Evolution of Infectious Disease 14th Annual Conference.
24. Gervasi, S. G., Burkett-Cadena, N., Schrey, A. W., Hassan, H., Unnasch T. R., and Lynn B. Martin (2015) Vector preferences and host defenses in the West Nile virus system: A role for avian stress hormones? Ecology and Evolution of Infectious Diseases 13th Annual Conference.
23. Jaramillo, D., Pacheco, P., Jacobs, A., Martinez, M., Schrey, A., Langkilde, T., Izaguirre-Sierra, M., and Travis R. Robbins (2015) Delayed development in a lizard: a possible animal model for determinants of ageing and life span. ARCSS Spring Symposium
22. Pacheco, P., Jaramillo, D., Schrey, A., Langkilde, T., Izaguirre-Sierra, M., and Travis R. Robbins (2015) Fence lizard response to fire ant invasion at the phenotypic, epigenetic, and genetic levels. ARCSS Spring Symposium.
21. Pacheco, P., Jaramillo, D., Schrey, A., Langkilde, T., Izaguirre-Sierra, M., and Travis R. Robbins (2015) Fence lizard response to fire ant invasion at the phenotypic, epigenetic, and genetic levels. NM-INBRE Spring Conference.
20. Sotola, V. A., Schrey, A., Bollinger, E., Frankland, L., Colombo, R. E. and S. Rayford (2015) Age-0 growth, timing of spawning events, and genetic population structure of channel (*Ictalurus punctatus*) and blue (*Ictalurus furcatus*) catfish in the Wabash River. Poster presentation at the Midwest Fish and Wildlife Conference.
19. Schrey, A., *Zettler, Z., **Adams, K., Frederick, B., Gutting, A., Ingebretsen, I., and A. Ragsdale.** (2015) Genetic structure of populations of mealybugs on epiphytic orchids of South Florida. Association of Southeastern Biologists 2015 Annual Meeting in Chattanooga, TN
18. Schrey, A. W., and L. B. *Martin (2015) DNA sequence variation in the toll-like receptor 4 gene among house sparrow populations. Annual Meeting of the Society of Integrative and Comparative Biology.
17. *Robertson, M.H., Schrey, A.W., Shayter, A.C., Meals, C.J., and C.L. Richards. (2014) Genetic and epigenetic response to the *Deepwater Horizon* oil spill in *Spartina alterniflora*. Annual meeting of the Society for the Study of Evolution. Raleigh, NC.

16. *Schrey, A.W., Robbins, T., **Vo, D., Nguyen, T., Lee, J., Plair, P., Makatura, E., Frederick, B., Ragsdale, A., Adams, K., Hall, A., Shoop, T.,** Ashton, K., McCoy, E., and H. Mushinsky (2014) Ecological epigenetics of herpetofauna in the fire maintained Florida scrub habitat. Annual Meeting of the American Society of Ichthyology and Herpetology.
15. *Alvarez, M., Schrey, A., and C.L. Richards (2013) Trends in ecological microarray studies. Annual Meeting of the Society of Integrative and Comparative Biology.
14. *Kilvitis, H., Boruta, M., Schrey, A., Richards, C., and L. B. Martin (2013) Is there an epigenetic basis to avian immunity? Annual Meeting of the Society of Integrative and Comparative Biology. A. Schrey not listed as an author in published program.
13. *Robbins, T., *Schrey, A., Richards, C., and T. Langkilde (2013) Fire ant invasion status accounts for variation in DNA methylation of lizard populations. Annual Meeting of the Society of Integrative and Comparative Biology.
12. *Foust, C., Schrey, A., and C. Richards (2013) Genetic and epigenetic population structure in *Spartina alterniflora*. Annual Meeting of the Society of Integrative and Comparative Biology.
11. *Rodgers, C., Schrey, A., Jinnatun Nesa, J., and C. Richards (2011) Different temperatures induce phenotypic variation and changes in DNA methylation in *Arabidopsis thaliana*. University of South Florida Undergraduate Research Symposium.
10. *Spence, P., Shayter, A., Schrey, A., and C. Richards (2011) Using AFLP and MS-AFLP to compare genetic and epigenetic variation in *Spartina alterniflora*. University of South Florida Undergraduate Research Symposium. Awarded 1st place.
9. *Thaver, C., Schrey, A., and C. Richards. (2011) Phylogeography of *Borrchia frutescens* and comparing the epigenetic profile of *Spartina alterniflora* morphotypes. University of South Florida Undergraduate Research Symposium.
8. *Alvarez, M., Schrey, A., and C. Richards. (2011) Differential gene expression in *Spartina alterniflora* caused by hydrocarbon stress. University of South Florida Undergraduate Research Symposium.
7. *Shayter, A., Meals, C., Alvarez, M., Rodgers, C., Spence, P., Zagorsky, R., Schrey, A., and C. Richards (2010) Epigenetic variation in *Spartina alterniflora* due to the BP oil spill. SEPEEG.
6. Schrey A., Ashton K., Heath S., Fox A., Mushinsky H., and E. McCoy* (2010) Genetic analysis of the Florida Sand Skink. Ecological Society of America. Symposium, New Directions in an Ancient Ecosystem: Syntheses, Mechanisms, Models, and Applications in Florida Scrub Research.

5. Heath S., *Schrey A., McCoy E., and H. Mushinsky (2010) Florida Sand Skink genetic diversity is altered immediately after a fire. Annual Meeting of the American Society of Ichthyology and Herpetology.
4. *Heath S, Schrey A., McCoy E, and H. Mushinsky (2010) Florida Sand Skink genetic diversity is altered immediately after a fire. University of South Florida Undergraduate Research Symposium. Awarded Honorable Mention.
3. *Schrey A., Coon C., McCoy E., Mushinsky H., Rohr J., and L. Martin (2009) Epigenetic variation in two populations of house sparrows. Annual Meeting of the American Ornithological Union.
2. *Schrey A., and E. Heist (2004) Parentage analysis and assignment testing of hatchery reared pallid sturgeon. Annual Meeting of the American Fisheries Society.
1. *Schrey A, and E. Heist (2004) Discrimination of pallid and shovelnose sturgeons using multiple microsatellite markers. National Meeting of the North American Native Fishes Association.