

CURRICULUM VITAE

Derek A. Zelmer

Department of Biological, Environmental, and Earth Sciences
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Personal information:

Date of Birth: June 19, 1969; Calgary, Alberta, Canada

Education:

Wake Forest University, Department of Biology, Ph.D. 1994-1998
Advisor: Dr. Gerald W. Esch
University of Calgary, Department of Biological Sciences, M.Sc. 1992-1994
Advisor: Dr. Hisao P. Arai
University of Calgary, Department of Biological Sciences, B.Sc. 1989-1992
Majors: Ecology and Zoology

Research interests:

Among-scale interactions of population and community processes in aquatic systems
Determinants of parasite community structure in aquatic vertebrates
Transmission dynamics of parasites in lotic ecosystems

Professional experience:

Teaching:

Professor, Department of Biological, Environmental, and Earth Sciences, University of South Carolina Aiken, 2019-present.
Principles of Biology, Ecology and Evolution, Parasitology, Aquatic Ecology, Elementary Biostatistics
Associate Professor, Department of Biology and Geology, University of South Carolina Aiken, 2011-2019
Principles of Biology, Ecology and Evolution, Tropical Marine Biology, Parasitology, Aquatic Ecology, Elementary Biostatistics, Senior Seminar
Assistant Professor, Department of Biology and Geology, University of South Carolina Aiken, 2006-2011
Principles of Biology, Ecology and Evolution, Invertebrate Zoology, Tropical Marine Biology, Parasitology, Aquatic Ecology
Associate Professor, Department of Biology, Emporia State University, 2005-2006
Principles of Ecology, Field Ecology, Parasitology, Invertebrate Zoology, Research Design and Analysis, Ecology and Evolution Graduate Seminar
Assistant Professor, Department of Biology, Emporia State University, 1999-2005
Principles of Ecology, Field Ecology, Parasitology, Invertebrate Zoology, Research Design and Analysis, Ecology and Evolution Graduate Seminar
Visiting Assistant Professor, Wake Forest University, 1998-1999
Aquatic Ecology, Parasitology, Introductory Biology

General:

Board of Scientific Advisors, Highlands Biological Station 2014-present
Associate Editor, Journal of Parasitology, 2012-2018
Editorial Board, Comparative Parasitology, 2012-2022
Associate Editor, American Midland Naturalist, 2002-2022
Graduate Program Coordinator, Department of Biology, Emporia State University, 2001-2004
Director of the Natural Areas, Emporia State University, 2001-2002
Postdoctoral Research, Guanacaste Conservation Area. Community ecology and classification of parasites of amphibians in Costa Rica, 1998
Consultant, North Carolina Fish and Game. Determination of the source of infection of hatchery brook trout, *Salvelinus fontinalis*, by the blood fluke *Salminicola fontinalis*, and evaluation of potential control measures, 1997
Consultant, AGRA Earth and Environmental. Impact of water transfer on the metazoan parasite fauna of lake whitefish, *Coregonus clupeaformis*, in the Lake Wabumini fishery, 1995
Consultant, Alberta Fish and Wildlife. Establishment of lake stocking protocols, aimed at minimizing parasite transfauna, 1992-1993

Grants, honors, and awards:

RISE, University of South Carolina, 2022 (\$5,760)
Co-PI, ASPIRE III, University of South Carolina, 2015 (\$100,000)
Research and Grant Support Program, USC Aiken 2008 (\$3,500)
Research Opportunity Program Grant, University of South Carolina, 2007 (\$8,132)
Research and Creativity Grant, Emporia State University, 2003 (\$7,650)
NSF Research Experiences for Undergraduates Program (with M. Sundberg and S. Crupper), 2000-2002, \$156,318, "Tallgrass Prairie Biology".
Research and Creativity Grant, Emporia State University, 2002 (\$3,135)
Research and Creativity Grant, Emporia State University, 2001 (\$9,815)
Research and Creativity Grant, Emporia State University, 2000 (\$12,248)
Postdoctoral Fellowship, Natural Sciences and Engineering Research Council of Canada, 1999 (\$70,000)
Best Student Paper Presentation Award, Annual Meeting of the American Society of Parasitologists, 1997
Byrd-Dunn Award for best student paper presented at the Annual Meeting of the Southeastern Society of Parasitologists, 1997
Outstanding Graduate Student, Department of Biology, Wake Forest University, 1996
Marc Dresden Student Travel Award, American Society of Parasitologists, 1995, 1997
Fisheries Management Enhancement Program Grant (with Dr. H.P. Arai), Alberta Fish and Wildlife, 1992, 1993 (\$35,000)

Articles published in refereed journals (undergraduate coauthors in bold):

Johnson, P.T.J., R.J. Malawauw, J. Piaskowy, D.M. Calhoun, Z. Kohl, L.J.V. Ter Horst, and D.A. Zelmer. 2024. Emergence of black spot syndrome in Caribbean reefs: A century of fish collections reveal long-term increases in *Scaphanocephalus* infection. Proceedings of the Royal Society B (in press).
Hood, C.M., S. Dey, and D.A. Zelmer. 2024. Stochasticity, scale, and refraction: Determinants of population synchrony in parasites of centrarchids in J. Strom Thurmond Lake, South Carolina. Journal of Parasitology 110: 232-238.

- Bacon, C.A., M.E. Spires,** and D.A. Zelmer. 2021. Sample composition: parasite ecology's dirty little secret. *Journal of Parasitology* 107: 762-769.
- J.M. Hulke, W.H. Ellenburg, D.A. Zelmer, and C.D. Criscione. 2021. Quantifying bilateral infection patterns in the trematode *Alloglossidium renale*. *Journal of Parasitology* 107: 731-738.
- Lamichhane-Khadka, R., A. Slusser, M. Green, D.A. Zelmer, and T.R. Platt. 2021. Effect of *Echinostoma caproni* on presumptive lactic acid bacteria abundance and *Salmonella enterica* serovar typhimurium colonization. *Journal of Parasitology* 107:381-387.
- Leaphart, J.C,** and D.A. Zelmer. 2017. Wrecking the curve: altered functional response of *Tetragoneuria* (Odonata: Corduliidae) naiads infected with metacercariae of *Haematoloechus floedae*. *Journal of Parasitology* 103:147-151.
- Platt, T.R., F. Gifford, and D.A. Zelmer. 2016. The role of light and dark on the dispersal and transmission of *Echinostoma caproni* (Digenea: Echinostomatidae) cercariae. *Comparative Parasitology* 83:197-210.
- Platt, T.R., and D.A. Zelmer. 2016. Effect of infection duration on habitat selection and morphology of adult *Echinostoma caproni* (Digenea: Echinostomatidae) in ICR mice. *Journal of Parasitology* 102: 37-41.
- Zelmer, D. A. 2014. Size, time, and asynchrony matter: The species–area relationship for parasites of freshwater fishes. *Journal of Parasitology* 100: 561-568.
- Zelmer, D.A. 2013. Estimating prevalence: a confidence game. *Journal of Parasitology* 99: 386-389.
- Platt, T.R., G. Quintana, A.E. Rodriguez, and D.A. Zelmer. 2013. Migratory response of *Echinostoma caproni* (Digenea: Echinostomatidae) to host feeding in ICR mice. *Journal of Parasitology* 99: 247-249.
- Platt, T.R., G. L. Hussey, and D.A. Zelmer. 2013. Circadian egg production by *Echinostoma caproni* (Digenea: Echinostomatidae) in ICR mice. *Journal of Parasitology* 99: 179-182.
- Zelmer, D.A., **S.A. Brewer,** and H.G. Hanlin. 2012. Parasites of flier, *Centrarchus macropterus*, from prairie and channel habitats in the Okefenokee Swamp, Georgia. *Journal of Parasitology* 98: 897-898.
- Zelmer, D. A., and J. K. Campbell. 2011. Examining the Area-effect for Parasite Communities of Bluegill x Green Sunfish Hybrids in 5 Constructed Ponds in Kansas. *Journal of Parasitology* 97: 197-201.
- Platt, T.R., E. Graf, A. Kammrath, and D.A. Zelmer. 2010. Diurnal migration of *Echinostoma caproni* (Digenea: Echinostomatidae) in ICR mice. *Journal of Parasitology* 96: 1072-1075.
- Platt, T.R., H. Greenlee, and D.A. Zelmer. 2010. The interaction of light and gravity on the transmission of *Echinostoma caproni* (Digenea: Echinostomatidae) cercariae to the second intermediate host, *Biomphalaria glabrata* (Gastropoda: Pulmonata). *Journal of Parasitology* 96: 325-328.
- Warburton, E.M, and D.A. Zelmer. 2010. Prerequisites for parasitism in rhabditid nematodes. *Journal of Parasitology* 96: 89-94.
- Zelmer, D.A., and T.R. Platt. 2009. Helminth infracommunities of the common snapping turtle (*Chelydra serpentina*) from Westhampton Lake, Virginia. *Journal of Parasitology* 95: 1552-1554.
- Zelmer, D.A., and C.M. Gross. 2009. “Active” passive sampling in two species of *Lepomis* from Par Pond, South Carolina: a case study of infracommunity nestedness. *Journal of Parasitology* 95: 1054-1061.
- Zelmer, D.A., and T.R. Platt. 2008. Structure and similarity of helminth communities of

- six species of Australian turtles. *Journal of Parasitology* 94: 781-787.
- McJunkin, J. W., and D. A. Zelmer. 2008. Evaluating the effects of enteric helminths on epigamic characters of male wild turkeys (*Meleagris gallopavo*) in Southeastern Kansas, U.S.A. *Comparative Parasitology* 75:283-287.
- Brooks, D.R., V. León-Règagnon, D. A. McLennan, and D.A. Zelmer. 2006. Ecological fitting as a determinant of the community structure of platyhelminth parasites of anurans. *Ecology* 87: S76-S85.
- McJunkin, J.W., D.A. Zelmer, and R.D. Applegate. 2005. Population dynamics of wild turkeys in Kansas (*Meleagris gallopavo*): theoretical considerations and implications of Rural Mail Carrier Survery (RMCS) data. *American Midland Naturalist* 154: 178-187.
- Zelmer, D.A., L. Paredes-Calderón, V. León-Règagnon, and L. García-Prieto. 2004. Nestedness in colonization-dominated systems: helminth infracommunities of *Rana vaillanti* Brocchi (Anura: Ranidae) in Los Tuxtlas, Veracruz, Mexico. *Journal of Parasitology* 90: 705-710.
- Zelmer, D.A., and J.R. Seed. 2004. A patch hath smaller patches: delineating ecological neighborhoods for parasites. *Comparative Parasitology* 71: 93-103.
- Zelmer, D.A. and H.P. Arai. 2004. Development of nestedness: host biology as a community process in parasite infracommunities of yellow perch (*Perca flavescens* (Mitchill)) from Garner Lake, Alberta. *Journal of Parasitology* 90: 435-436.
- Everhart, M.E., R.E. Kuhn, and D.A. Zelmer. 2004. Intrapopulation dynamics of a wild strain of *Taenia crassiceps* (WFU)(Cestoda: Taeniidae) in BALB/cJ mice. *Journal of Parasitology* 90: 79-84.
- McJunkin, J.W., R.D. Applegate, and D.A. Zelmer. 2003. Helminths of wild turkeys (*Meleagris gallopavo*) in Kansas. *Journal of Avian Diseases* 47: 1481-1485.
- Johnson, P.T.J., K.B. Lunde, D.A. Zelmer, and J.K. Werner. 2003. Limb deformities as an emerging parasitic disease in amphibians: evidence from museum specimens and re-survey data. *Conservation Biology* 17: 1724-1737.
- León-Règagnon, V., D.R. Brooks, and D.A. Zelmer. 2001. Morphological and molecular description of *Haematoloechus meridionalis* n. sp. (Digenea: Plagiorchioidea: Haematoloechidae), of *Rana vaillanti* Brocchi of Guanacaste, Costa Rica. *Journal of Parasitology* 87: 1423-1427.
- Stanger-Hall, K.F., D.A. Zelmer, C. Bergren, and S.A. Burns. 2001. Taste discrimination in a lizard (*Anolis carolinensis*, Polychrotidae). *Copeia* 2001: 490-498.
- Zelmer, D.A., and D.R. Brooks. 2000. *Halipegus eschi* n. sp. (Digenea: Hemiuridae) in *Rana vaillanti* from Guanacaste Province, Costa Rica. *Journal of Parasitology* 86: 1114-1117.
- Zelmer, D.A., and G.W. Esch. 2000. Snail size as a determinant of prepatent period duration in *Helisoma anceps* infected with *Halipegus occidualis* (Digenea: Hemiuridae). *Journal of Parasitology* 86: 891-894.
- Zelmer, D.A., and G.W. Esch. 2000. Relationship between structure and stability of a *Halipegus occidualis* component population in green frogs: a test of selective treatment. *Journal of Parasitology* 86: 233-240.
- Zelmer, D.A., and G.W. Esch. 1999. Robust estimation of parasite component community richness. *Journal of Parasitology* 85: 592-594.
- Zelmer, D.A., E.J. Wetzel, and G.W. Esch. 1999. The role of habitat in structuring *Halipegus occidualis* metapopulations in the green frog. *Journal of Parasitology* 85: 19-24.
- Zelmer, D.A., and G.W. Esch. 1999. Re-evaluation of the taxonomic status of *Halipegus*

- occidualis* Stafford, 1905 (Digenea: Hemiuridae). Journal of Parasitology 85: 157-160.
- Zelmer, D.A. 1998. An evolutionary definition of parasitism. International Journal for Parasitology 28: 531-533.
- Zelmer, D.A., and G.W. Esch. 1998. The infection mechanism of the cystophorous cercaria of *Halipegus occidualis* (Trematoda: Hemiuridae). Invertebrate Biology 117: 281-287.
- Zelmer, D.A., and G.W. Esch. 1998. Interactions between *Halipegus occidualis* and its ostracod second intermediate host: evidence for castration? Journal of Parasitology 84: 778-782.
- Zelmer, D.A., and G.W. Esch. 1998. Bridging the gap: the odonate naiad as a paratenic host for *Halipegus occidualis* (Trematoda: Hemiuridae). Journal of Parasitology 84: 94-96.
- Zelmer, D.A., and H.P. Arai. 1998. The contributions of host age and size to the aggregated distribution of parasites in yellow perch, *Perca flavescens*, in Garner Lake, Alberta. Journal of Parasitology 84: 24-28.
- Esch, G.W., E.J. Wetzel, D.A. Zelmer, and A.M. Schotthoefer. 1997. Long-term changes in parasite population and community structure: a case history. American Midland Naturalist 137: 369-387.

Non-refereed contributions:

- Zelmer, D.A. 2002. Book review: Tylenchida: parasites of plants and insects. 2nd edition. Plant Science Bulletin 28: 28-49.
- Zelmer, D.A. 2001. Book review: Parasitic diseases. 4th edition. Journal of Parasitology 87: 1414.
- Zelmer, D.A. 2000. Book review: Epidemic modeling: an introduction. Journal of Parasitology 86: 118.
- Zelmer, D.A. 2000. Book review: Sex and parthogenesis: evolutionary ecology of reproductive modes in non-marine ostracods. Quarterly Review of Biology 75: 56-57.
- Zelmer, D.A. 1998. Book review: Parasites of offshore big game fishes of Puerto Rico and the western Atlantic. Journal of Parasitology 84: 283.
- Zelmer, D.A. 1997. Book review: Guide to the parasites of fishes of Canada. Part IV. Trematoda. Journal of Parasitology 83: 178.
- Zelmer, D.A. 1996. Book review: Fish diseases and disorders. Volume I: protozoan and metazoan infections. Journal of Parasitology 82: 525.
- Zelmer, D.A. 1996. Book review: Parasites of fishes in Wyoming. Journal of Parasitology 82: 236.

Presentations (undergraduate coauthors in bold):

- Zelmer, D.A. 2024. Nested subsets in parasite community ecology: Celebrating 30 years of “meh”. Annual Meeting of the Southeastern Society of Parasitologists, Lexington, Virginia.
- Zelmer, D. A. 2023. Patterns of asynchrony in helminth parasites of centrarchids in J. Strom Thurmond Lake, South Carolina. Annual Meeting of the Southeastern Society of Parasitologists, Cumberland Gap, Tennessee.
- Zelmer, D.A. 2022. The effect of abundance transformations on Bray-Curtis NMDS estimation of patterns of parasite infra- and component community similarity. Annual meeting of the American Society of Parasitologists, College Station, Texas.

- Zelmer, D. A. 2019. Lazy hosts: evaluating methods of including uninfected hosts in the analysis of patterns of infracommunity similarity. Annual meeting of the American Society of Parasitologists, Rochester, Minnesota.
- Zelmer, D.A. 2019. An ordination-based metric for evaluation of environmental effects on parasite species. Annual Meeting of the Southeastern Society of Parasitologists, Athens, Georgia.
- Zelmer, D.A. 2017. Scaling synchrony in sunfish symbionts. President's Symposium, Annual Meeting of the American Society of Parasitologists, San Antonio, Texas.
- Zelmer, D.A., C. Ruiz, and S.A. Bullard. 2017. Does the use of operational taxonomic units influence the type I error rate for permutational analysis of variance (PERMANOVA)? Annual Meeting of the Southeastern Society of Parasitologists, Georgetown, South Carolina
- Leaphart, J.C.**, and D.A. Zelmer. 2016. The life cycle of *Haematoloechus floedae* Harwood, 1932 (Digenea: Plagiorchiidae). Annual Meeting of the American Society of Parasitologists, Edmonton, Alberta, Canada.
- Leaphart, J.C.**, and D.A. Zelmer. 2016. The life cycle of *Haematoloechus floedae* Harwood, 1932 (Digenea: Plagiorchiidae). Annual Meeting of the Southeastern Society of Parasitologists, Fort Mill, SC.
- Leaphart, J.C.**, and D.A. Zelmer. 2015. Wrecking the curve: the influence of trematode infection on the functional response of 2 predators. Annual Meeting of the American Society of Parasitologists, Omaha, Nebraska.
- Zelmer, D.A., and T.R. Platt. 2015 Dispersal patterns of *Echinostoma caproni* cercariae. Annual Meeting of the Southeastern Society of Parasitologists, Blacksburg, Virginia.
- Zelmer, D. A. 2014. Reading between the lines: a closer look at interspecific differences in parasite aggregation. Annual Meeting of the Southeastern Society of Parasitologists, Georgia Southern University, Statesboro, Georgia.
- Zelmer, D.A. 2013. Parasites of *Lepomis auritus* in the Edisto River: the relationship between host and parasite community structure. Annual Meeting of the American Society of Parasitologists, Quebec City, Quebec, Canada.
- Zelmer, D.A. 2013. Temporal changes in the parasite community of redbreast sunfish, *Lepomis auritus*, in the Edisto River, SC. Annual Meeting of the Southeastern Society of Parasitologists, Bowling Green, Kentucky.
- Zelmer, D.A. 2012. Parasites of flier, *Centrarchus macropterus*, from prairie and channel habitats in the Okefenokee Swamp, Georgia. Annual Meeting of the American Society of Parasitologists, Richmond Virginia.
- Zelmer, D.A. 2011. Ecological drift in parasite communities, Annual Meeting of the American Society of Parasitologists, Anchorage, Alaska.
- Zelmer, D.A. 2011. Ecological drift in parasite communities. Annual Meeting of the Southeastern Society of Parasitologists, Unicoi State Park, Helen, Georgia.
- Zelmer, D.A. 2009. Determinants of parasite community structure in freshwater fishes. Department of Biology Seminar Series, College of Charleston, Charleston, SC.
- Zelmer, D.A., **C.M. Gross**, and **H.E. Pender**. 2009. Evaluating the potential for parasites to indicate ecosystem-level changes in the Edisto River, SC. Annual Meeting of the American Society of Parasitologists, Knoxville, Tennessee.
- Zelmer, D.A., **C.M. Gross**, and **H.E. Pender**. 2009. Evaluating the potential for parasites to indicate ecosystem-level changes in the Edisto River, SC. Annual Meeting of the Southeastern Society of Parasitologists, Murray Lake, Kentucky.
- Zelmer, D.A., and T.R. Platt. 2008. Structure and similarity of the helminth communities

- of six species of Australian Turtles. Joint Meeting of the Southeastern Society of Parasitologists and Association of Southeastern Biologists, Spartanburg, SC.
- Zelmer, D.A. 2007. Host biology as a community process: parasites of *Lepomis gulosus* in Par Pond, South Carolina. Annual Meeting of the Southeastern Society of Parasitologists, Belle Baruch Marine Laboratory, Georgetown, SC.
- Zelmer, D.A. V. León-Règagnon, and D.R. Brooks. 2005. Ecological fitting in the evolution of anuran parasite communities. Southwestern Association of Parasitologists, 38th Annual Meeting, Lake Texoma, Oklahoma.
- Zelmer, D.A. 2005. Landscape epidemiology and nested communities: a framework for parasite community ecology. Seminar, Department of Zoology, Oklahoma State University.
- Zelmer, D.A. 2004. Null models for nested subset patterns of community structure: an illuminating shift from black boxes to grey areas. Southwestern Association of Parasitologists, 37th Annual Meeting, Lake Texoma, Oklahoma.
- Zelmer, D.A. 2003. Landscape epidemiology and nested communities: a framework for parasite community ecology. Invited presentation at the Student Symposium at the American Society of Parasitologists, 78th Annual Meeting, Halifax, Nova Scotia, Canada, August 2003.
- Zelmer, D.A., L. Paredes-Calderón, V. León-Règagnon, and L. García-Prieto. 2003. Nestedness in colonization-dominated systems: helminth infracommunities of *Rana vaillanti* Brocchi (Anura: Ranidae) in Los Tuxtlas, Veracruz, Mexico. Southwestern Association of Parasitologists, 36th Annual Meeting, Lake Texoma, Oklahoma.
- Zelmer, D.A., and J.W. McJunkin. 2001. The search for scale: local and regional effects on zooplankton community dynamics. Southwestern Association of Naturalists, 48th Annual Meeting, Hays, Kansas.
- Zelmer, D.A. 2000. Habitat begets habitat: landscape structure as a determinant of parasite community structure. Department of Biology Weekly Seminar Series, Wichita State University, Wichita, Kansas.
- Zelmer, D.A. 2000. Parasite prerequisites: the life history of *Poikilolaimus robbinsi*. Annual Meeting of the Southeastern Society of Parasitologists, Chattanooga, Tennessee.
- Zelmer, D.A. 2000. Protozoan and metazoan parasites of fishes. Workshop presented at the Annual Meeting of the Kansas Chapter of the American Fisheries Society, Manhattan, Kansas.
- Zelmer, D.A., and D.R. Brooks. 1999. Habitat use and parasite community structure in Costa Rican anurans. American Society of Parasitologists, 74th Annual Meeting, Monterey, California.
- Zelmer, D.A., and D.R. Brooks. 1999. Habitat use and parasite community structure in Costa Rican anurans. Annual Meeting of the Southeastern Society of Parasitologists, Auburn, Alabama.
- Zelmer, D.A., and G.W. Esch. 1998. Relationship between structure and stability of a *Halipegus occidualis* component population in green frogs. Annual Meeting of the Southeastern Society of Parasitologists, Clemson, South Carolina.
- Zelmer, D.A., and G.W. Esch. 1997. Life history and transmission dynamics of *Halipegus occidualis*. Department of Biology Weekly Seminar Series, Wake Forest University, Winston-Salem, North Carolina.
- Zelmer, D.A., and G.W. Esch. 1997. Bridging the gap: the odonate naiad as a paratenic host for *Halipegus occidualis*. American Society of Parasitologists, 72nd Annual meeting, Nashville, Tennessee.

- Zelmer, D.A., and G.W. Esch. 1997. The role of habitat in the structuring of the *Haliplus occidialis* metapopulation of the green frog, *Rana clamitans*. Annual Meeting of the Southeastern Society of Parasitologists, Greenville, South Carolina.
- Zelmer, D.A., and H.P. Arai. 1996. The contributions of host age and size to the aggregated distribution of parasites in yellow perch, *Perca flavescens* (Mitchill). Annual Meeting of the Southeastern Society of Parasitologists, Hancock Biological Station, Murray State University, Kentucky.
- Zelmer, D.A., and H.P. Arai. 1995. The effect of lake size on the determination of the parasite component community of yellow perch, *Perca flavescens* (Mitchill). American Society of Parasitologists, 70th Annual Meeting, Pittsburgh, Pennsylvania.
- Zelmer, D.A., and H.P. Arai. 1995. The effect of lake size on the determination of the parasite component community of yellow perch, *Perca flavescens* (Mitchill). Annual Meeting of the Southeastern Society of Parasitologists, Knoxville, Tennessee.

Presentations by Graduate Students

- Warburton, E.M., and D.A. Zelmer. 2005. Crossing Ösche's bridge: prerequisites for parasitism in rhabditid nematodes. Southwestern Association of Parasitologists, 38th Annual Meeting, Lake Texoma, Oklahoma.
- Warburton, E.M., and D.A. Zelmer. 2004. Testing prerequisites for parasitism in two species of rhabditid nematodes. Southwestern Association of Parasitologists, 37th Annual Meeting, Lake Texoma, Oklahoma.
- McJunkin, J.W., and D.A. Zelmer. 2002. Utilizing the Hamilton-Zuk hypothesis as a metric of the long-term effects of enteric helminthes on parasites of wild turkeys (*Meleagris gallopavo*). Southwestern Association of Parasitologists, 35th Annual Meeting, Lake Texoma, Oklahoma.
- McJunkin, J.W., and D.A. Zelmer. 2002. Utilizing the Hamilton-Zuk hypothesis as a metric of the long-term effects of enteric helminthes on parasites of wild turkeys (*Meleagris gallopavo*). Poster presentation. 134th Annual Meeting of the Kansas Academy of Sciences, Fort Hays, Kansas.
- Theede, B., D.W. Moore, and D.A. Zelmer. 2000. Parasite of bobcats (*Lynx rufus*) in Southeastern Kansas. Poster Presentation. Annual Meeting of the Southwestern Association of Naturalists, Denton, Texas.

Presentations by Undergraduate Students

- Dey, S., C. Hood, and D. Zelmer. 2021. Asynchrony and Disease Persistence in Centrarchid Fishes. Annual Meeting of the Southeastern Society of Parasitologists (virtual).
- Nall, H., and D. Zelmer. 2018. Comparison of a prototype remote monitoring system to conventional video observations for rat drinking behavior (poster). Annual Meeting of the Association for Behavioral Analysis International, San Diego, California.
- Nall, H., and D. Zelmer. 2017. Prototyping an open-source monitoring system for socially housed rats (poster). South Carolina Association for Behavior Analysis. Myrtle Beach, South Carolina.
- Leaphart, J.C., and D.A. Zelmer. 2014. Effects of *Haematoloechus floedae* infection on the functional response of libellulid odonate naiads feeding on *Daphnia magna*.

- Annual Meeting of the Southeastern Society of Parasitologists, Georgia Southern University, Statesboro, Georgia.
- Patterson, A.L., and D.A. Zelmer. 2014. Change in the distribution of *Posthodiplostomum minimum* metacercariae in the bluegill sunfish, *Lepomis macrochirus*, after initial infection. Annual Meeting of the Southeastern Society of Parasitologists, Georgia Southern University, Statesboro, Georgia.
- Schaufler, C., and D.A. Zelmer. 2014. Structure of *Fascioloides magna* infrapopulations in white-tailed deer (*Odocoileus virginianus*) in the western Piedmont region of South Carolina. Annual Meeting of the Southeastern Society of Parasitologists, Georgia Southern University, Statesboro, Georgia.
- Shealy, A., and D.A. Zelmer. 2014. Effect of *Posthodiplostomum minimum* on the functional response of bluegill sunfish (*Lepomis macrochirus*). Annual Meeting of the Southeastern Society of Parasitologists, Georgia Southern University, Statesboro, Georgia.
- Fulghum, C.M., and D.A. Zelmer. 2013. The role of spatial and temporal heterogeneity in structuring of trematode communities in the freshwater snail, *Physa pomilia* from West Pond located in Brick Pond Park, North Augusta, SC. Annual Meeting of the Southeastern Society of Parasitologists, Bowling Green, Kentucky.
- Gross, C.M., and D.A. Zelmer. 2009. “Active” passive sampling in two species of *Lepomis* from Par Pond, South Carolina, USA: A case study of infracommunity nestedness. Annual Meeting of the Southeastern Society of Parasitologists, Murray Lake, Kentucky.
- Mayson, S., and D.A. Zelmer. 2007. Patterns of community similarities of fishes of the Edisto River. Annual Meeting of the South Carolina Academy of Science, Clemson, South Carolina.
- Shaw, A., and D.A. Zelmer. 2004. The effects of habitat heterogeneity and area on benthic invertebrate diversity in 5 Kansas ponds. Emporia State University Undergraduate Research and Creativity Symposium, Emporia, Kansas.
- Knight, G.L., and D.A. Zelmer. 2002. Evaluating the potential for an ‘edge-effect’ in parasite communities of lotic fishes. Southwestern Association of Parasitologists, 36th Annual Meeting, Lake Texoma, Oklahoma.
- Knight, G.L., and D.A. Zelmer. 2002. Evaluating the potential for an ‘edge-effect’ in parasite communities of lotic fishes. Great Plains Limnological Conference.
- McJunkin, J.W., and D.A. Zelmer 2001. The search for scale: local and regional effects on zooplankton community dynamics. Great Plains Limnology Conference, Lawrence, Kansas.
- Green, J.J., and D.A. Zelmer. 2000. Parasite prerequisites: the life history of *Poikilolaimus robbinsi*. Annual Meeting of the Southwestern Association of Naturalists, Denton, Texas.

Professional Societies:

- American Society of Parasitologists (Site Selection Committee 2015, chair 2016, Student Awards Committee 2017-present)
- Southeastern Society of Parasitologists (Vice-President 2010-2011, President 2012-2013, Student Award Committee 2017)