

Curriculum Vitae

Trevor J. Krabbenhoft

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EDUCATION

- Ph.D., Biology. *University of New Mexico*. 2012. “Reproductive phenology of fishes of the Rio Grande, New Mexico: a genes-to-community approach.” Advisor: Dr. Thomas F. Turner.
- M.S., Biology. *University of South Carolina*. 2006. “Parallel and convergent evolution of endemic fishes within and between two Carolina bay lakes.” Advisor: Dr. Joseph M. Quattro.
- B.S., Zoology. *North Dakota State University*. 2003.

PROFESSIONAL EXPERIENCE

- 2018-Present. Assistant Professor, Department of Biological Sciences and Research and Education in eNergy, Environment, and Water (RENEW) Institute, University at Buffalo.
- 2014-2017. Postdoctoral Researcher. Wayne State University. Supervisor: Dr. Thomas Dowling. Research: Ecological and evolutionary genomics fishes of the Great Lakes and western U.S.
- 2013-2014. Postdoctoral Researcher. Texas A&M University. Supervisor: Dr. John Gold. Research: Population genomics of exploited marine fishes.
- 2012-2013. Postdoctoral Researcher. University of New Mexico. Supervisor: Dr. Thomas Turner. Research: Comparative immunogenomics of fishes in the Rio Grande, New Mexico.
2012. NSF International Research Experiences for Students (IRES). Field research in Mongolia.
- 2007-2011. Graduate Assistant. *Department of Biology and Museum of Southwestern Biology, University of New Mexico*.
- 2007-2011. Summer Field Technician. *American Southwest Ichthyological Research Foundation, Albuquerque, New Mexico*.
2004. Visiting Scientist. NSF East Asia and Pacific Summer Institute, *Australian Museum, Sydney, Australia*.
- 2003-2006. Graduate Assistant. *Department of Biology, University of South Carolina*.
2003. Museum Technician. *National Marine Fisheries Service, National Systematics Laboratory, Smithsonian Institution, Washington, D.C.*
2002. NSF REU. *Department of Biology, University of South Carolina*.
2001. NSF REU. *National Museum of Natural History, Smithsonian Institution*.

- 2000-2002. J. Frank Cassel Research Scholar. *North Dakota State University*.
 2000. Student Intern. *Minnesota Department of Natural Resources*.
 2000. Research Assistant. *U.S. Army Corps of Engineers, Eau Galle Aquatic Ecology Research Facility*.

WORKSHOPS AND SPECIAL COURSES

2017. Invited panelist: Cisco Genetics Panel Discussion. W. Larson, W. Stott, T. Krabbenhoft (panelists). Great Lakes Fishery Commission Annual Meeting, Duluth, MN.
 2015. Invited participant: USGS-funded expert workshop on climate change effects on inland fishes for the development of a special issue in *Fisheries*. Northern Rocky Mountain Science Center, Bozeman, Montana.
 2015. Phylogenomics Symposium and Software School. Ann Arbor, Michigan.
 2013. Cuba-Mexico-USA Tri-national Initiative for Marine Science and Conservation in the Gulf of Mexico and Western Caribbean. Harte Research Institute, Corpus Christi, Texas.
 2011. RAD Sequencing and Genomics Symposium. Portland, Oregon.
 2009. UC Davis Next-Gen Sequencing and Bioinformatics Course. Davis, California.
 2006. NSF Geometric Morphometrics Workshop, Iowa State University. Ames, Iowa.
 2000. Tropical Rainforest Biology Field Course, Costa Rica.

AWARDS, GRANTS AND CONTRACTS

- 2017-2019. Developing genomic resources for Great Lakes cisco to facilitate species identification and investigate adaptation. US Fish & Wildlife Service, Great Lakes Fish and Wildlife Restoration Act. W. Larson, W. Stott, TJ Krabbenhoft, TE Dowling (Co-PIs). \$76,188.
 2016-2019. Development of SNP markers for sex determination, parentage assessment, and population genetics of razorback sucker. US Bureau of Reclamation. TE Dowling (PI), TJ Krabbenhoft (Co-PI). \$343,935.
 2014. Great Lakes Fishery Commission: Sea Lamprey Program. Assessment of population genomics as a tool for discriminating among populations of Great Lakes sea lamprey. \$9,991. TJ Krabbenhoft (PI), TE Dowling (Co-PI).
 2013. National Center for Genome Resources - New Mexico IDeA Network for Biomedical Sciences (NM-INBRE) Pilot Project. \$10,000. Award to TF Turner (PI); assisted with writing.
 2012. US-Mongolia Field Fellowship, American Center for Mongolian Studies. TJ Krabbenhoft (Co-PI), N Mercado-Silva (Co-PI).
 2011. Student Conference Award, University of New Mexico.
 2011. Graduate Research Allocations Committee Grant, Department of Biology, University of New Mexico.
 2011. Dean's Dissertation Scholarship, University of New Mexico.
 2010. Runner-up, Sally L. Richardson Award for Best Student Paper. American Fisheries Society Larval Fishes Conference, Santa Fe, NM.

2010. Grove Doctoral Memorial Scholarship, Department of Biology, University of New Mexico.
2010. Student Research Allocations Committee Grant, Graduate and Professional Student Association, University of New Mexico.
2009. Hertel Scholarship, Department of Biology, University of New Mexico.
2009. Crawford Scholarship, Department of Biology, University of New Mexico.
2009. Graduate Research Allocations Committee Grant, Department of Biology, University of New Mexico.
2008. High Priority Grant, Graduate Research and Development Fund, University of New Mexico. "Effects of pollution on fathead minnow gene expression." \$4990. TJ Krabbenhoft (PI).
2008. American Society of Ichthyologists and Herpetologists Travel Grant.
2007. Research Project and Travel Grant, Office of Graduate Studies, University of New Mexico.
2007. Student Research Allocations Committee Grant, Graduate and Professional Student Association, University of New Mexico.
2006. Elsie Tabor Fellowship, University of South Carolina.
2006. Gerald and Antonia Wilson Biological Sciences Graduate Student Award.
2005. NSF Graduate Research Fellowship, Honorable Mention.
2005. American Society of Naturalists Travel Grant.
2004. NSF East Asia and Pacific Summer Institute Fellowship, Australia.
- 2003-2006. Graduate School Fellowship, University of South Carolina.
2003. Undergraduate Student of the Year Award, The Wildlife Society, ND Chapter.
- 2001, 2002, 2003. Excellent Undergraduate Researcher, Zoology (3 awards). North Dakota State University.
- 2000-2003. Phi Eta Sigma National Biological Honor Society.
- 2000-2003. The Wildlife Society, ND Chapter, Fargo, North Dakota. President (2002), Vice President (2001), Secretary (2000).
- 2000, 2001, 2002. J. Frank Cassel Research Award (3 awards).
- 1999-2000. Aquarist of the Year, Red River Valley Aquarium Club.
1998. Richard C. Drew 3M Creativity in Science Award.

PUBLICATIONS

- Krabbenhoft TJ**, Turner TF (2017) Comparative transcriptomics of cyprinid minnows and carp in a common wild setting: a resource for ecological genomics in freshwater communities. *DNA Research*. Online Early.
- Myers BJE, Lynch AJ, Bunnell DB, Chu C, Falke JA, Kovach R, **Krabbenhoft TJ**, Kwak TJ, Paukert CP (2017) *Authors 3-9 listed alphabetically. Global synthesis of the projected and documented climate change effects on inland fishes. *Reviews in Fish Biology and Fisheries* 27:339-361. **Invited contribution** for special issue: Impacts of climate change on marine and inland fishes and fisheries.
- Lynch AJ, Myers BJE, Chu C, Eby LA, Falke JA, Kovach RP, **Krabbenhoft TJ**, Kwak TJ, Lyons J, Paukert CP, Whitney JE (Authors 3-9 listed alphabetically) (2016) Climate change effects on North American inland fish populations and assemblages. *Fisheries* 41:346-361. **Invited contribution** for special issue on

climate change effects on inland fishes. Publication led to briefings to US Congressional panel on climate change effects on inland fish.

Media coverage:

Fisheries: <http://fisheries.org/2016/06/in-hot-water-climate-change-is-affecting-north-american-fish/>

Triple Pundit: <http://www.triplepundit.com/2016/07/warmer-temperatures-impacting-fish-north-american-waters/>

Science Daily:

<https://www.sciencedaily.com/releases/2016/06/160630214513.htm>

Field and Stream: <http://www.fieldandstream.com/blogs/the-conservationist/research-shows-climate-change-is-already-affecting-gamefish>

Phys.org: <http://phys.org/news/2016-06-hot-climate-affecting-north-american.html>

Wyoming Public Radio: <http://wyomingpublicmedia.org/post/climate-change-causing-evolutionary-impacts-trout>

ScienceBlog.com: <https://scienceblog.com/485038/hot-water-climate-change-affecting-north-american-fish/>

Turner TF, **Krabbenhoft TJ**, Collyer ML, Krabbenhoft CA, Edwards MS, Sharp ZD (2015) Retrospective stable isotope analysis reveals ecosystem responses to river regulation over the last century. *Ecology* 96:3213-3226.

Mercado-Silva N, Lyons J, Moncayo-Estrada R, Gesundheit P, **Krabbenhoft TJ**, Powell DL, Piller KR (2015) Stable isotope evidence for trophic overlap of sympatric Mexican Lake Chapala silversides (Teleostei: Atherinopsidae: *Chirostoma* spp.). *Neotropical Ichthyology* 13:389-400. [Open Access](#).

Krabbenhoft TJ, Platania SP, Turner TF (2014) Interannual variation in reproductive phenology in a riverine fish assemblage: implications for predicting the effects of climate change and alteration of flow regimes. *Freshwater Biology* 59:1744-1754.

Krabbenhoft TJ, Turner TF (2014) *Clock* gene evolution: seasonal timing, phylogenetic inertia, or functional constraint? *Journal of Heredity* 105:407-415.

Turner TF, Collyer ML, **Krabbenhoft TJ** (2010) A general hypothesis-testing framework for stable isotope ratios in ecological studies. *Ecology* 91:2227-2233.

Munroe TA, **Krabbenhoft TJ** (2010) Two unusually large pre-transitional tonguefish larvae (Pleuronectiformes: Cynoglossidae: *Symphurus*) collected in Oceanic waters near the Galapagos Islands. *Bulletin of Marine Science* 86:13-31.

Turner TF, **Krabbenhoft TJ**, Burdett AS (2010) Reproductive phenology and fish community structure in an arid-land river system. *In*: Gido K & Jackson D (Eds.): *Community Ecology of Stream Fishes. American Fisheries Society Symposium* 73:427-446.

Renshaw MA, Carson EW, Hanna A, Rexroad CE, III, **Krabbenhoft TJ**, Gold JR (2009) Microsatellite markers for species of the genus *Dionda* (Cyprinidae) from the American southwest. *Conservation Genetics* 10(5):1569-1575.

Krabbenhoft TJ, Collyer ML, Quattro JM (2009) Differing evolutionary patterns underlie convergence on elongate morphology in endemic fishes of Lake

- Waccamaw, North Carolina. *Biological Journal of the Linnean Society* 98:636-645.
- Krabbenhoft TJ**, Rohde FC, Quattro JM (2009) Threatened Fishes of the World: *Fundulus waccamensis* Hubbs and Raney, 1946 (Fundulidae). *Environmental Biology of Fishes* 84:173-174.
- Snelson FF, **Krabbenhoft TJ**, Quattro JM (2009) *Elassoma gilberti*: A new species of pygmy sunfish (Elassomatidae) from Florida and Georgia. *Bulletin of the Florida Museum of Natural History* 48(4):119-144.
- Krabbenhoft TJ**, Rohde FC, Leibman AN, Quattro JM (2008) Concordant nuclear and mitochondrial DNA partitions define evolutionarily significant units in the imperiled pinewoods darter, *Etheostoma mariae* (Pisces:Percidae). *Copeia* 2008:909-915.
- Krabbenhoft TJ**, Rohde FC, Quattro JM (2006) Threatened Fishes of the World: *Etheostoma perlongum* (Hubbs and Raney 1946) (Percidae). *Environmental Biology of Fishes* 76:411-412.
- Krabbenhoft TJ**, Rohde FC, Quattro JM (2005) Threatened Fishes of the World: *Menidia extensa* (Hubbs and Raney 1946) (Atherinopsidae). *Environmental Biology of Fishes* 73:48.
- Krabbenhoft TJ**, Munroe TA (2003) *Symphurus bathyspilus*: a new species of cynoglossid flatfish (Pleuronectiformes:Cynoglossidae) from deepwaters of the Indo-West Pacific. *Copeia* 2003:810-817.

PRESENTATIONS (STUDENT AUTHORS ARE UNDERLINED)

- Krabbenhoft TJ**, Dowling TE (2017) Development of SNP markers for sex determination, parentage assessment, and population genetics of razorback sucker, *Xyrauchen texanus* (Cypriniformes: Catostomidae). Joint Meeting of Ichthyologists and Herpetologists, Austin, TX.
- Krabbenhoft TJ**, Yule DL, Smith GR, Stott W, Dowling TE (2017) Transcriptomics identifies genes associated with functional differences among Lake Superior ciscoes (*Coregonus* spp.). Joint Meeting of Ichthyologists and Herpetologists, Austin, TX.
- Krabbenhoft TJ** (2017) Transcriptomics: Genes associated with functional variation in Lake Superior ciscoes. Great Lakes Fishery Commission Annual Meeting, Duluth, MN. *Invited Seminar*.
- Krabbenhoft TJ**, Yule DL, Smith GR, Stott W, Dowling TE (2017) Transcriptomics identifies genes associated with morphology in Lake Superior ciscoes (*Coregonus* spp.). International Association for Great Lakes Research Meeting, Detroit, MI. *Invited Seminar*.
- Krabbenhoft TJ**, Dowling TE (2017) Population genomics and local adaptation in Great Lakes sea lamprey. International Association for Great Lakes Research Meeting, Detroit, MI. *Invited Seminar*.
- Wicks A, **Krabbenhoft TJ**, Dowling TE (2017) Gene expression variation in round goby and Johnny darter in two southeast Michigan streams. International Association for Great Lakes Research Meeting, Detroit, MI. *Invited Seminar*.

- Krabbenhoft TJ** (2017) Fish out of water: conservation genomics and ecology of native fishes of the Rio Grande, New Mexico. University at Buffalo, Buffalo, NY. *Invited seminar.*
- Krabbenhoft TJ**, Yule DL, Smith GR, Stott W, Dowling TE (2017) Transcriptomics identifies genes associated with functional differences among Lake Superior ciscoes (*Coregonus spp.*). Great Lakes Fishery Commission, Lake Committee Meetings, Ypsilanti, Michigan. *Invited seminar.*
- Krabbenhoft TJ** (2017) Conservation genetics of native fishes of the Rio Grande, New Mexico. Environmental and Conservation Sciences Green Bag, North Dakota State University, Fargo, North Dakota. *Invited seminar.*
- Krabbenhoft TJ** (2016) Ecological and evolutionary genomics of Great Lakes fishes. Evolution Group, Department of Biology, Wayne State University, Detroit, Michigan. *Invited seminar.*
- Krabbenhoft TJ**, Dowling TE (2016) Population genomics and local adaptation in invasive sea lamprey (*Petromyzon marinus*) in the Great Lakes. *American Fisheries Society, Kansas City, MO.*
- Krabbenhoft TJ**, Turner TF (2016) Climate change and flow regulation alter fish community structure through species-specific effects on reproductive phenology. *American Fisheries Society, Kansas City, MO. Invited presentation.*
- Myers, BJE, Lynch AJ, Bunnell DB, Chu C, Falke JA, Kovach R, **Krabbenhoft TJ**, Kwak TJ, Paukert CP (2016) Global synthesis of climate change effects on inland fish. *American Fisheries Society, Kansas City, MO. Invited presentation.*
- Krabbenhoft TJ**, Dowling TE (2016) Population genomics and local adaptation in invasive Great Lakes sea lamprey. *Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA.*
- Myers BJE, Lynch AJ, Bunnell DB, Chu C, Falke JA, Kovach R, **Krabbenhoft TJ**, Kwak TJ (2016) Global synthesis of climate change effects on inland fish. *World Fisheries Congress, Busan, South Korea.*
- Krabbenhoft TJ**, Wilkie M, Johnson N, Dowling TE (2016) Genomic basis for seasonal variation in the TFM sensitivity of larval sea lamprey. *Great Lakes Fishery Commission, Sea Lamprey Control Program, Ann Arbor, MI. Invited presentation.*
- Dowling TE, **Krabbenhoft TJ**, Stott WL, Yule DL (2016) Transcriptomics of Great Lakes ciscoes (*Coregonus spp.*): Identifying genetic markers associated with morphological differences. Great Lakes Fishery Commission, Fishery Research Program, Ann Arbor, MI. *Invited presentation.*
- Krabbenhoft TJ**, Smith GR, Buth D, Dowling TE (2015) Genome evolution following whole genome duplication: insights from suckers (Catostomidae). *Joint Meeting of Ichthyologists and Herpetologists, Reno, NV.*
- Krabbenhoft TJ**, Dowling TE (2015) Genetic and phenotypic contributions to TFM sensitivity in larval sea lampreys. *Great Lakes Fishery Commission, Sea Lamprey Control Program, Ann Arbor, MI. Invited presentation.*
- Dowling TE, **Krabbenhoft TJ**, Stott W (2015) Transcriptomics of Great Lakes ciscoes (*Coregonus spp.*): identifying functional genetic differences. *Great Lakes Fishery Commission, Fisheries Research Program, Ann Arbor, MI. Invited presentation.*

- Krabbenhoft TJ** (2015) Fish out of water: comparative transcriptomics, trophic ecology, and stress response of fish in a drying river. Western Michigan University, Kalamazoo. *Invited presentation.*
- Krabbenhoft TJ** (2014) Fish out of water: comparative transcriptomics, trophic ecology, and stress response of fish in a drying river. University of Michigan, Ann Arbor. *Invited presentation.*
- Krabbenhoft TJ**, Turner TF (2014) Comparative transcriptomics: a tool for fish ecologists. *Joint Meeting of Ichthyologists and Herpetologists, Chattanooga, TN.*
- Krabbenhoft TJ**, Dowling TE (2014) Population genomics and local adaptation in Great Lakes sea lamprey. *Great Lakes Fishery Commission, Sea Lamprey Control Program, Ann Arbor, MI. Invited presentation.*
- Puritz JB, Hollenbeck CM, **Krabbenhoft TJ**, Hogan JD, Portnoy DS, Bird CE, Gold JR (2013) Genomic tools for assessment of natural and artificial reefs and formation of a joint HRI and TAMU-CC marine genomics core facility. *Gulf and Caribbean Fisheries Institute Annual Conference, Corpus Christi, TX. Extended Abstract published in "Proceedings of the 66th Gulf and Caribbean Fisheries Institute."*
- Turner TF, **Krabbenhoft TJ** (2013) Comparative genomics of fishes in a drying river: are stress and immune responses similar across species? *Joint Meeting of Ichthyologists and Herpetologists, Albuquerque, NM. Invited presentation.*
- Diver TA, Osborne MJ, **Krabbenhoft TJ**, Turner TF (2013) The evolution and maintenance of deeply divergent lineages of red shiner, *Cyprinella lutrensis*, in the Rio Grande watershed. *Joint Meeting of Ichthyologists and Herpetologists, Albuquerque, NM.*
- Krabbenhoft TJ**, Olson KW, Provost M, Young T, Krabbenhoft CA, Mendsaikhan B, Mercado-Silva N, Jensen OP (2013) Evolution and ecology of Mongolian grayling species (*Thymallus* spp.): an individual-based approach. *Joint Meeting of Ichthyologists and Herpetologists, Albuquerque, NM.*
- Krabbenhoft TJ** (2012) Reproductive phenology in fishes of the Rio Grande, New Mexico. *St. Louis University. Invited presentation.*
- Krabbenhoft TJ**, Turner TF (2012) Comparative genomics of reproduction and circadian rhythms in fishes. *Ecological Genomics Symposium, Kansas City, MO.*
- Krabbenhoft TJ**, Turner TF (2011) Comparative genomics of North American minnows: Next-generation transcriptome sequencing of Rio Grande silvery minnow, *Hybognathus amarus* (Cypriniformes: Cyprinidae). *Joint Meeting of Ichthyologists and Herpetologists, Minneapolis, MN. American Fisheries Society Annual Conference.*
- Turner TF, **Krabbenhoft TJ**, Love CA (2011) New insights from old specimens: effects of intensive river regulation in the Rio Grande revealed from stable isotopes of preserved material. *Joint Meeting of Ichthyologists and Herpetologists, Minneapolis, MN.*
- Quattro JM, **Krabbenhoft TJ**, Rohde FC, Grady JM (2011) Genetic and morphological divergence in Lake Waccamaw endemic fishes. *Joint Meeting of Ichthyologists and Herpetologists, Minneapolis, MN. Invited presentation.*
- Krabbenhoft TJ**, Platania SP, Turner TF (2011) Reproductive phenology of fishes of the middle Rio Grande, New Mexico. *Joint Meeting of Ichthyologists and*

- Herpetologists, Minneapolis, MN. American Fisheries Society Annual Conference, Seattle, WA.*
- Kawatachi J, Krabbenhoft TJ, Turner TF** (2011) Reproductive timing and allele length variation in the PolyQ domain of the *Clock* gene in cyprinid fishes of the middle Rio Grande, New Mexico. *SACNAS Conference, San Jose, CA. Winner of best poster award in Animal Science.*
- Neff N, Krabbenhoft TJ, Turner TF** (2010) Evolutionary trends of opsins in cyprinid fishes. *Research Day presentation, University of New Mexico.*
- Turner TF, Krabbenhoft TJ, Collyer ML, Love CA** (2010) A new hypothesis testing framework for stable isotope ratios in ecological studies with examples from the Rio Grande. *ASLO/NABS Joint Meeting, Santa Fe, NM.*
- Krabbenhoft TJ, Platania SP, Turner TF** (2010) Reproductive phenology in the Rio Grande fish community. *Larval Fishes Conference, Santa Fe, NM. Honorable Mention for best student oral presentation award.*
- Turner TF, Krabbenhoft TJ, Collyer ML, Edwards MS** (2009) Effects of river regulation on Rio Grande fish communities revealed by stable isotope analysis of historical and contemporary samples. *Ecological Society of America Annual Meeting, Albuquerque, NM.*
- Krabbenhoft TJ** (2009) Emerging technologies: genomics approaches to fisheries management. *Genetics and Fish Management Workshop, Western Division of American Fisheries Society Annual Meeting, Albuquerque, NM.*
- Turner TF, Krabbenhoft TJ, Burdett AS** (2008) Reproductive timing and the assembly of larval fish communities in a highly variable river system, the Rio Grande in New Mexico. Invited Symposium: Community Ecology of Stream Fishes: Concepts, Approaches, and Techniques. *American Fisheries Society, Ottawa, Ont. Canada. Invited presentation.*
- Krabbenhoft TJ, Collyer ML, Quattro JM** (2007) Convergent evolution of phylogenetically-disparate, endemic fishes of Lake Waccamaw, North Carolina. *Joint Meeting, American Society of Ichthyologists and Herpetologists, St. Louis, MO.*
- Krabbenhoft TJ, Rohde FC, Quattro JM** (2005) Conservation genetics of the pinewoods darter (*Etheostoma mariae*). *Joint Meeting, American Society of Ichthyologists and Herpetologists, Tampa, FL.*
- Martin D, Krabbenhoft TJ, Quattro JM, Hardy JD** (2005) How many species of Tobago *Poecilia* are there? *Joint Meeting, American Society of Ichthyologists and Herpetologists, Tampa, FL.*
- Krabbenhoft TJ, Collyer ML, Quattro JM** (2005) Convergent evolution of endemic fishes of Lake Waccamaw, North Carolina. *Evolution, Fairbanks, AK.*
- Krabbenhoft TJ, Quattro JM** (2004) Morphological divergence of endemic Lake Waccamaw, North Carolina fish fauna. *Joint Meeting, American Society of Ichthyologists and Herpetologists, Norman, OK.*
- Collyer ML, Krabbenhoft TJ, Stockwell CA** (2002) Shape allometries and growth rates for experimental populations of White Sands pupfish. *Desert Fishes Council Annual Conference, San Luis Potosí, Mexico.*

- Krabbenhoft TJ** (2002) Population genetics of the Atlantic stingray (*Dasyatis sabina*). *Research Experience for Undergraduates Symposium, University of South Carolina, Columbia, SC.*
- Krabbenhoft TJ** (2002) A new cynoglossid flatfish (Pleuronectiformes: Cynoglossidae) from deepwaters of the Indo-West Pacific. *Research Training Program Seminar, Smithsonian Institution; Joint Meeting, American Society of Ichthyologists and Herpetologists. Kansas City, MO.*
- Krabbenhoft TJ**, Miller AT, Butler MG, Hanson MA (2002) Algal response to logging in ephemeral wetlands. *Midwestern Ephemeral Wetlands Conference, Chicago, IL.*
- Krabbenhoft TJ**, Zimmer KD, Butler MG, Hanson MA (2001) Predicting phosphorus excretion from fish bioenergetics: sensitivity of model output to variation in parameter estimates. *American Fisheries Society, North Dakota Chapter Annual Meeting, Fargo, ND.*
- Laurich LM, **Krabbenhoft TJ**, Zimmer KD, Butler MG, Hanson MA (2001) Selectivity of zooplankton prey by fathead minnows and brook sticklebacks. *62nd Annual Fish and Wildlife Conference, Minneapolis, MN; American Fisheries Society-Dakota Chapter, Annual Meeting, Fargo, ND.*

AD HOC REVIEWER (56 manuscripts, 14 grant proposals, 3 book chapters)

African Journal of Agricultural Research (1 manuscript), *Aquatic Biology* (3), *Biological Journal of the Linnean Society* (2), *Canadian Journal of Zoology* (1), *Conservation Genetics* (1), *Copeia* (5), *Ecology of Freshwater Fish* (2), *Environmental Biology of Fishes* (7), *Evolution* (1), *Heredity* (1), *Ichthyological Research* (2), *Integrative Zoology* (1), *Journal of Fish Biology* (6), *Journal of Freshwater Biology* (1), *Journal of Freshwater Ecology* (1), *Journal of Morphology* (1), *Marine Biotechnology* (1), *Marine Ecology Progress Series* (1), *Molecular Ecology Resources* (1), *Molecular Phylogenetics and Evolution* (1), *Northwest Science* (1), *Oecologia* (1), *PLoS One* (1), *Proceedings of the Biological Society of Washington* (3), *Proceedings of the Royal Society B* (1), *Reviews in Fish Biology and Fisheries* (1), *Transactions of the American Fisheries Society* (2), *Zootaxa* (6).

National Science Foundation – Division of Environmental Biology (1 grant proposal), *American Center for Mongolian Studies Field Grant Program* (13 proposals).

Ecology of North American Freshwater Fishes by Stephen T. Ross (3 book chapters).

MENTORING AND ADVISING

- 2016-present. Emily Buckeridge. Undergraduate Honors Thesis. “Genetic differentiation of ecologically-distinct grayling species (*Thymallus* spp.) in Mongolia.”
2015. Andrew Yan. Undergraduate Directed Studies Student. “Population genomics of sea lamprey (*Petromyzon marinus*) in the Great Lakes.”
2013. Kristen Coffman. Undergraduate Honors Student. “Genetic effective size in hatchery-raised spotted seatrout, *Cynoscion nebulosus*.”

- 2011-2012. Jon Kawatachi. Undergraduate participant in the NIH-funded “Initiatives for Maximizing Student Diversity Program”. “Reproductive timing and allele length variation in the PolyQ domain of the *Clock* gene in cyprinid fishes.” Jon won an award for best student poster at the SACNAS National Meeting in San Diego, CA, for this research.
- 2009-2010. Nichole Neff. Undergraduate Honors Thesis. “Phylogenetic trends in opsin genes in cyprinid fishes”.
- 2004-2005. Austin Hughes. Undergraduate Technician. Austin studied conservation genetics of darters (*Etheostoma* spp.) in the southeastern US.
2004. Stefanie Sedlack. NSF REU Student. “Phylogeography of pygmy sunfishes (Genus *Elassoma*) in the southeastern US”.

PROFESSIONAL SERVICE

2017. Session Moderator, Joint Meeting of Ichthyology and Herpetology, Austin, TX.
2017. Judge, Best Student Oral Presentation in Conservation Biology. Joint Meeting of Ichthyologists and Herpetologists, Austin, TX.
2017. Judge, Best Student Oral Presentation Award. International Association of Great Lakes Research Meeting, Detroit, MI.
2017. Symposium co-organizer, “*Advances in molecular methods and their impact on management of the Great Lakes.*” T.J. Krabbenhoft and T.E. Dowling. International Association of Great Lakes Research, annual meeting, Detroit, MI.
2017. American Fisheries Society Membership and Early Career Professionals Committee.
2016. Session Moderator, Joint Meeting of Ichthyology and Herpetology, New Orleans, LA.

TEACHING EXPERIENCE

Guest teaching and workshops organized

2017. Basic Life Diversity (Bio 1500; >> 100 students). One class period: *Hypothesis testing and origins of biodiversity.* Wayne State University.
2017. Conservation Genetics (Bio 6190). Four class periods: “*Conservation genomics,*” “*Conservation biology of native fishes of the Rio Grande, New Mexico,*” “*Phylogeography and coalescent theory,*” and “*Genetic markers for conservation.*”
2016. Instructor and workshop organizer: “*The effects of dams and climate change on inland fishes of Puerto Rico.*” Developed and led classroom, laboratory and field activities for a Howard Hughes Medical Institute-funded program (HHMI Grant Number 52007566): “*Enhancing Advanced Educational Opportunities in STEM fields for Minority Students at University of Puerto Rico – Mayaguez.*” Held in Mayaguez, Puerto Rico, 29 May – 06 June 2016.
2016. Basic Life Diversity (Bio 1500; >> 100 students). Four class periods: circulatory system, osmoregulation, and urinary system. Wayne State University.
2016. Population Genetics (Bio 6090). Three lectures/discussions: population genomics theory and methods. Wayne State University.

2015. Basic Life Diversity (Bio 1500; >>100 students). Two class periods: “*Mitosis and Meiosis*” and “*Animal Evolution.*” *Wayne State University.*
2011. Ichthyology (Biol 487). One class period: “Reproductive phenology of fishes.” *University of New Mexico.*
2011. Limnology (Biol 495). One class period: “Fish ecology.” *University of New Mexico.*
2009. Co-Instructor for Genetics and Fish Management, Continuing Education Workshop. “Emerging genetics tools for fisheries management.” *Western Division of American Fisheries Society Annual Meeting, Albuquerque, NM.*
2006. Ichthyology (Biol 536). Two class periods: “Behavior and communication in fishes.” *University of South Carolina.*
2004. Ichthyology (Biol 536). One class periods: “External morphology of fishes.” *University of South Carolina.*

Graduate Teaching Assistantships

- 2010, 2011. Limnology (Biol 496L). *University of New Mexico.*
2009. Ichthyology (Biol 487). *University of New Mexico.*
2007. Ecology and Evolution (Biol 203). *University of New Mexico.*
2006. Introductory Biology II (Biol 102). *University of South Carolina.*
- 2004, 2006. Ichthyology (Biol 536). *University of South Carolina.*