David A. Schumann

Postdoctoral Associate

PROFESSIONAL ADDRESS

Department of Wildlife, Fisheries, and Aquaculture Mississippi State University Mississippi State, MS 39762

EDUCATION

2017-present	Postdoctoral Scholar
	Mississippi State University
	Research focus: Structured decision making to inform management of floodplain
	dependent fishes in the Lower Mississippi River, probabilistic species co-
	occurrence models
2017	Ph.D. – South Dakota State University
	Wildlife and Fisheries Sciences
	Dissertation: Measuring aquatic organism responses to stream restoration: Does
	the field of dreams really exist?
2012	M.S. – University of Nebraska at Kearney
	Biology
	Thesis: Experimental repatriation of Plains Topminnow, Fundulus sciadicus, for
	species conservation and evaluation of potential limits to persistence in Nebraska
2009	B.S. – University of Wisconsin-Stevens Point
	Fisheries and Water Resources

PROFESSIONAL EXPERIENCE

2017-present	Postdoctoral Associate
	Department of Wildlife, Fisheries, and Aquaculture
	Mississippi State University
2013-2017	Graduate Research Assistant
	Department of Natural Resource Management
	South Dakota State University
2014-2015	Graduate Teaching Assistant
	Department of Natural Resource Management
	South Dakota State University
2011-2012	Curator of Ichthyology Collection
	Department of Biology
	University of Nebraska at Kearney
2011-2012	Entomology Technician
	Nebraska Ecological Services
	U.S. Fish and Wildlife Service

2012 Graduate Teaching Assistant

Department of Biology

University of Nebraska at Kearney

2010-2012 Fisheries Technician

Fisheries Division

Nebraska Game and Parks Commission

2010-2012 Graduate Research Assistant

Department of Biology

University of Nebraska at Kearney

Fisheries Intern

Northern Aquaculture Demonstration Facility

College of Natural Resources

University of Wisconsin – Stevens Point

TEACHING EXPERIENCE

Fall 2017	WFA 4313/6313: Fisheries Management (<i>Guest Lecturer</i>) Mississippi State University
Fall 2015	WL 367: Ichthyology (<i>Instructor and Lab Coordinator</i>) South Dakota State University Mean IDEA Score = 3.8
Spring 2015	WL 230: Wildlife and Fisheries Techniques (<i>Co-Instructor</i>) South Dakota State University Mean IDEA Score = 4.6
Fall 2014	BIOL 872: Freshwater Biology (<i>Guest Lecturer</i>) University of Nebraska at Kearney
	WL 527: Limnology of Lakes and Streams (<i>Guest Lecturer</i>) South Dakota State University
Spring 2014	WL 230: Wildlife and Fisheries Techniques (<i>Co-Instructor</i>) South Dakota State University Mean IDEA Score = 4.5
	WL 529: Fish Ecology (<i>Guest Lecturer</i>) South Dakota State University
Fall 2013	WL 367: Ichthyology (<i>Lab Instructor and Guest Lecturer</i>) South Dakota State University

BIOL 884: Freshwater Management Techniques (Guest Lecturer)

University of Nebraska at Kearney

WL 723: Fisheries Ecology and Management (Guest Lecturer)

South Dakota State University

Spring 2012 BIOL 103: General Biology (*Lab Instructor*)

University of Nebraska at Kearney

UNDERGRADUATE STUDENT MENTEES

2014-2017	Jenna Haag, South Dakota State University
	Research: Unequal ranging abilities of prairie fishes: vertical barriers
	Current positon: Masters student, University of Georgia
2015-2016	Joshua Hoekwater, South Dakota State University
	Research: Improving surgical techniques used to implant PIT tags into small-bodied fishes with cyanoacrylate sutures
	Current position: Stream Fish Biologist, Minnesota Pollution Control Agency
2015-2016	Crystal Garcia, South Dakota State University
	Research: Seasonality, floods and droughts structure larval fish assemblages in prairie streams
	Current position: Scientific Technician, USGS Western Ecological Research Center
2015	Miranda Huang, Whitman College
	Research: Habitat partitioning of crayfish common to eastern South Dakota Current position: Research Technician, USGS South Dakota
2013-2015	Jordon Redmond, South Dakota State University
	Research: <i>Unequal ranging abilities of prairie fishes: horizontal barriers</i> Current position: Fisheries Technician, Woods and Waters Fish Farm
2013-2015	Morgan Kauth, South Dakota State University
	Research: Effectiveness of single-pass backpack electrofishing in low-order prairie streams
	Current position: Masters student, Montana State University
2013-2014	Jacob Schwoerer, South Dakota State University
	Research: Spatial dynamics of fish assemblage structure in intermittent streams
	with introduced habitat complexity
	Current position: Research Associate, University of Missouri

PEER-REVIEWED PUBLICATIONS (undergraduate co-authors underlined) - TEN

Schumann, D.A., W.W. Hoback, K.D. Koupal, C.W. Schoenebeck, S.C. Schainost, and T.L. Wilson. *In press*. Experimental analysis of reintroduction strategies to conserve the

- vulnerable Plains Topminnow *Fundulus sciadicus* in Nebraska. Endangered Species Research
- <u>Garcia, C.</u>, D.A. Schumann, J. Howell, B.D.S. Graeb, K.N. Bertrand, and R.A. Klumb. *In press*. Seasonality, floods and droughts structure larval fish assemblages in prairie rivers. Ecology of Freshwater Fish DOI: 10.1111/eff.12354
- Pfrimmer, J., L. Gigliotti, J.D. Stafford, D.A. Schumann, and K.N. Bertrand. 2017. Motivations for enrollment into the Conservation Reserve Enhancement Program in the James River Basin of South Dakota. Human Dimensions of Wildlife 22(4):382-389.
- Schumann, D.A., D. Deslauriers, M.D. Wagner, K.N. Bertrand, and B.D.S. Graeb. 2017. Surgical implantation of passive integrated transponder (PIT) tags: a powerful tool for small-bodied sturgeon. Transactions of the American Fisheries Society 146(2):230-239.
- Schumann, D.A., C.W. Schoenebeck, K.D. Koupal, and W.W. Hoback. 2016. Dynamics of fish assemblage structure and single-species persistence: valuable insight into interspecific interactions of a poorly understood species. The American Midland Naturalist 176(2):186-198.
- Schumann, D.A., W.W. Hoback, and K.D. Koupal. 2015. Complex interactions between native and invasive species: investigating the differential displacement of two topminnows native to Nebraska. Aquatic Invasions 10(3):339-349.
- Schumann, D.A., K.D. Koupal, S. Schainost, W.W. Hoback, and C.W. Schoenebeck. 2015. Spatial dynamics and large-scale dispersal patterns of plains topminnow *Fundulus sciadicus*: implications for species conservation. Journal of Freshwater Ecology 30(2):311-322.
- Schumann, D.A., K.D. Koupal, W.W. Hoback, and C.W. Schoenebeck. 2013. Evaluation of sprayed fluorescent pigment marks as a method to mass mark fish species. The Open Journal of Fish Science 6:41-47.
- Schumann, D.A., C.A. Pasbrig, K.D. Koupal, and W.W. Hoback. 2012. Culture of plains topminnow, *Fundulus sciadicus*, in a pond constructed for species conservation. North American Journal of Aquaculture 74:360-364.
- Schumann, D.A., M.C. Cavallaro, and W.W. Hoback. 2012. Size selective predation of fish by *Hydrophilis triangularis* (Coleoptera: Hydrophilidae) and *Lethocerus americanus* (Hemiptera: Belostomatidae). Journal of the Kansas Entomological Society 85(2):155-159.

PUBLICATIONS IN REVIEW (undergraduate co-authors underlined) - FIVE

- Schumann, D.A., <u>J.M. Haag</u>, <u>P.C. Ellensohn</u>, <u>J.D. Redmond</u>, and K.N. Bertrand. *In review*. Movement of prairie fishes in a fragmented riverscape: ecosystem processes risk being *ratcheted downs*tream. Ecological Applications
- Schumann, D.A., C.S. Uphoff, and C.W. Schoenebeck. *In review*. Incorporation of carbon and nitrogen isotopes in age-0 Walleye (*Sander vitreus*) tissues following a laboratory diet switch experiment. Canadian Journal of Fisheries and Aquatic Sciences

- Schumann, D.A., K.N. Bertrand, M.D. Wagner, B.D.S. Graeb, E. Prenosil and J. Hoekwater. *In review*. Passive Integrated Transponder (PIT) tags surgically implanted into small-bodied warmwater fishes. North American Journal of Fisheries Management
- <u>Kauth, M.J.</u>, D.A. Schumann, K.N. Bertrand, and W.W. Hoback. *In review*. Effectiveness of single-pass backpack electrofishing to sample fish in small prairie streams. Prairie Naturalist
- Wagner, M.D., B.J. Smith, and D.A. Schumann. *In review*. Gear effectiveness and size selectivity for five species of madtoms in Mississippi streams. North American Journal of Fisheries Management

MANUSCRIPTS IN PREPARATION (undergraduate co-authors underlined) - Two

- Schumann, D.A., K.N. Bertrand, J. Pfrimmer, J.D. Stafford, and S.R. Chipps. *In prep*. Measuring the responses of aquatic organisms to grassland conservation: does the *field of dreams* really exist?
- Deslauriers, D., D.A. Schumann, D.J. Debkowski, A.K. Carlson, L.B. Heironimus, B.J. Smith, J.D. Grote, C.K. Kaiser, M.D. Wagner, S.C. Sindelar, J. Kienz, and S.R. Chipps. *In prep*. Estimating the standard metabolic rate of diverse fishes using metabolic theory: applications for bioenergetics models.

POPULAR ARTICLES (undergraduate co-authors underlined) – **TWO**

- Schumann, D.A., <u>C.D. Hill</u>, C. Kaiser, B.D.S. Graeb, and D.W. Willis. *In press*. Remember the pumpkinseed: Using high density smallmouth bass to our advantage in northern ponds. Pond Boss
- Schumann, D.A., and K.D. Koupal. 2012. Plains topminnow in Nebraska. Central Loess Hills Newsletter 4(1):2.

EXTRAMURAL GRANTS AWARDED – SUM \$6,299

- Schumann, D.A. 2015. Microhabitat affinities of sensitive prairie fishes in South Dakota: towards precision stream restoration and management. South Dakota State University, Department of Natural Resource Management. (\$1,000)
- Schumann, D.A. 2015. Fish distribution, relative abundance, and habitat associations in never sampled James River Watersheds. South Dakota Department of Game, Fish and Parks, Wildlife Division. (\$4,724)
- Schumann, D.A., and W.W. Hoback. 2012. Long-term alterations to the fish community at a small Nebraska stream. University of Nebraska at Kearney, Biology Department. (\$575)

SUBMITTED EXTRAMURAL GRANTS – SUM \$894,475

Bertrand, K.N., D.A. Schumann, C.A. Pasbrig, B.D.S. Graeb, M. Gonda, and J. Gonzalez. 2017. Stream habitat for nongame prairie fishes: evaluating watershed restoration and network

- connectivity for Topeka Shiner (*Notropis topeka*) genetic structure, microhabitat use, and home range size. Great Plains Landscape Conservation Cooperative. (\$893,625)
- Schumann, D.A., and K.N. Bertrand. 2015. The effect of decreased turbidity in the Missouri River on piscivorous Pallid Sturgeon foraging and prey selection, American Society of Ichthyologists and Herpetologists Howard McCarley Student Research Award. (\$850)

TECHNICAL REPORTS - SIX

- Wagner, M.D., and D.A. Schumann. 2017. Status survey and comparisons of detection probability for multiple gears for Piebald Madtom (*Noturus gladiator*). U.S. Fish and Wildlife Service, Grant Award MS-E-E16AP00186, Annual Report, Jackson.
- Schumann, D.A., and K.N. Bertrand. 2016. Fish distribution, relative abundance, and habitat associations in never sampled James River watersheds. South Dakota Game, Fish and Parks, Wildlife Diversity Small Grants Program, Final Report, Pierre.
- Stafford, J.D., K.N. Bertrand, D.A. Schumann, and J. Pfrimmer. 2017. Evaluation of the James River Conservation Reserve Enhancement Program in South Dakota. South Dakota Game, Fish & Parks, State Wildlife Grant, Project T-59-R1, Final Report, Pierre.
- Koupal, K.D., D.A. Schumann, and W.W. Hoback. 2013. Reintroductions of plains topminnow, *Fundulus sciadicus*, for species conservation in Nebraska. Nebraska Game and Parks Commission, State Wildlife Grant, Project T2-8-R-2, Final Report, Lincoln.
- Koupal, K.D., D.A. Schumann, and W.W. Hoback. 2012. Reintroductions of plains topminnow, *Fundulus sciadicus*, for species conservation in Nebraska. Nebraska Game and Parks Commission, State Wildlife Grant, Project T2-8-R-1, Final Report, Lincoln.
- Schumann, D.A. 2009. Effect of starvation prior to slaughter on commercial rainbow trout yield and quality. University of Wisconsin-Stevens Point, Northern Aquaculture Demonstration Facility, Final Report, Stevens Point.

Invited Presentations (undergraduate co-authors underlined) - Five

- Schumann, D.A., J.D. Pfrimmer, K.N. Bertrand, and J.D. Stafford. 2016. Conservation fields of dreams? South Dakota Wildlife Federation, Brookings, South Dakota.
- Haag, J.M., P.C. Ellensohn, J.D. Redmond, D.A. Schumann, and K.N. Bertrand. 2016. Unequal ranging abilities of prairie fishes and consequent threats to the stream ecosystem: Impacts of lost connectivity in lotic networks in Managing Riverscapes: Conservation Tools to Assess and Improve Stream Fisheries. The 146th Annual Meeting of the American Fisheries Society, Kansas City, Missouri.
- Schumann, D.A., K.N. Bertrand, J.D. Pfrimmer, and J.D. Stafford. 2016. The riverscape: A transformative ecological paradigm used to understand conservation outcomes *in* Managing Riverscapes: Conservation Tools to Assess and Improve Stream Fisheries. The 146th Annual Meeting of the American Fisheries Society, Kansas City, Missouri.

- Schumann, D.A., J.D. Pfrimmer, J.D. Stafford, K.N. Bertrand, and L. Gigliotti. 2015. Learning from the Conservation Reserve Enhancement Program in South Dakota: Where do we go from here? Izaak Walton League of America, Watertown, South Dakota.
- Schumann, D.A. 2017. Integrating winter percussion into a band program: Great benefits with some challenges. South Dakota In-Service Music Conference, Brookings, South Dakota.

CONTRIBUTED PRESENTATIONS (undergraduate co-authors underlined) - 33

- Schumann, D.A., K.N. Bertrand, J.D. Pfrimmer, and J.D. Stafford. 2017. Measuring ecosystem responses to stream restoration: do *streams of dreams* really exist? The 147th Annual Meeting of the American Fisheries Society, Tampa, Florida.
- Schumann, D.A., D. Deslauriers, K.N. Bertrand, M.D. Wagner, B.D.S. Graeb, E. Prenosil, and J. Hoekwater. 2017. Responses of small-bodied fishes to surgically implanted passive integrated transponder (PIT) tags. The 147th Annual Meeting of the American Fisheries Society, Tampa, Florida.
- Schlafke, K., D.A. Schumann, K.N. Bertrand, and B.D.S Graeb. 2017. Identifying limiting stream conditions for intolerant prairie fishes. The 147th Annual Meeting of the American Fisheries Society, Tampa, Florida.
- Jones, S.J.M., K.N. Bertrand, B.D.S. Graeb, C. Kaiser, and D.A. Schumann. 2017. Quantifying fish assemblages and population dynamics in the face of a changing landscape. The 147th Annual Meeting of the American Fisheries Society, Tampa, Florida.
- Schoenebeck, C.W., D.A. Schumann, C.S. Uphoff, and K.N. Bertrand. 2017. Turnover rates of carbon and nitrogen isotopes in age-0 walleye tissues. Minnesota Chapter of the American Fisheries Society annual meeting, St. Cloud, Minnesota.
- Jones, S.J.M., K.N. Bertrand, B.D.S. Graeb, and D.A. Schumann. 2017. Western South Dakota's dominant prairie streams fishes: an updated assessment and population dynamics. The Midwest Fish and Wildlife Conference, Lincoln, Nebraska.
- Fopma, S., D.A. Schumann, M.D. Wagner, K.N. Bertrand, and B.D.S. Graeb. 2016. A comparison of tagging methods for Mountain Sucker. Poster presentation *in* Best Student Poster Presentation Symposium. The 146th Annual Meeting of the American Fisheries Society, Kansas City, Missouri.
- <u>Hoekwater, J.</u>, D.A. Schumann, and K.N. Bertrand. 2016. Improving surgical techniques for implanting passive integrated transponder (PIT) tags into small-bodied fishes using cyanoacrylate sutures. Dakota Chapter of the American Fisheries Society annual meeting, Spearfish, South Dakota.
- Ellensohn, P.C, J.D. Redmond, D.A. Schumann, and K.N. Bertrand. 2016. Unequal swimming abilities of prairie fishes and consequent threats to the stream ecosystem: impacts of lost connectivity within lotic networks. The Midwest Fish and Wildlife Conference, Grand Rapids, Michigan.

- Schumann, D.A., K.N. Bertrand, J. Pfrimmer, and J.D. Stafford. 2015. Conservation islands or truly a field of dreams? Nebraska Chapter of the American Fisheries Society Rivers and Streams Technical Committee Meeting, Gretna, Nebraska.
- Schumann, D.A., M.D. Wagner, D. Deslauriers, E.J. Prenosil, and K.N. Bertrand. 2015. Physiological responses of small-bodied fishes to the surgical implantation of novel passive integrated transponder (PIT) tags. Dakota Chapter of the American Fisheries Society annual meeting, Bismarck, North Dakota.
- <u>Haag, J.M.</u>, D.A. Schumann, and K.N. Bertrand. 2015. Jumping abilities of multiple small-bodied Great Plains fishes: Impacts of lost connectivity within lotic networks. Dakota Chapter of the American Fisheries Society annual meeting, Bismarck, North Dakota.
- Pfrimmer, J., L. Gigliotti, J.D. Stafford, D.A. Schumann, and K.N. Bertrand. 2015. Motivations for enrollment into the Conservation Reserve Enhancement Program in the James River Watershed, SD. South Dakota Chapter of the Wildlife Society annual meeting, Oacoma, South Dakota.
- Fopma, S., M. Wagner, D.A. Schumann, and K.N. Bertrand. 2015. A comparison of tagging methods for Mountain Sucker, *Pantosteus jordani*. Dakota Chapter of the American Fisheries Society annual meeting, Bismarck, North Dakota.
- Schumann, D.A., K.N. Bertrand, W.W. Hoback, and K.D. Koupal. 2014. Complex interactions between native and invasive species: multiple negative effects result in differential displacement of two topminnows native to Nebraska. Southwestern Association of Naturalists annual meeting, Stillwater, Oklahoma.
- Schumann, D.A., K.N. Bertrand, J.D. Pfrimmer, and J.D. Stafford. 2014. Integrating landscape and local perspectives of aquatic communities to understand restoration effectiveness along the stream mosaic. Dakota Chapter of the American Fisheries Society annual meeting, Chamberlain, South Dakota.
- Schumann, D.A., C.S. Uphoff, and C.W. Schoenebeck. 2014. Trophic fractionation and turnover rates of carbon and nitrogen isotopes in age-0 walleye tissues. Dakota Chapter of the American Fisheries Society, Chamberlain, South Dakota.
- Redmond, J.D., E. Ipsen, D.A. Schumann, and K.N. Bertrand. 2014. Swimming and jumping abilities of small-bodied stream fishes: impacts of lost connectivity within lotic networks. Dakota Chapter of the American Fisheries Society annual meeting, Chamberlain, South Dakota.
- <u>Kauth, M.J.</u>, D.A. Schumann, and K.N. Bertrand. 2014. Effectiveness of single pass backpack electrofishing in low-order prairie streams to estimate species abundance and richness. Dakota Chapter of the American Fisheries Society annual meeting, Chamberlain, South Dakota.
- Schumann, D.A., K.N. Bertrand, J.D. Pfrimmer, and J.D. Stafford. 2013. Response of aquatic resources to the James River Conservations Reserve Enhancement Program (CREP). South Dakota summer fisheries meeting, Chamberlain, South Dakota.

- Schumann, D.A., K.D. Koupal, W.W. Hoback, C.W. Schoenebeck, and S. Schainost. 2013. Experimental repatriation to conserve the imperiled plains topminnow, *Fundulus sciadicus*, in Nebraska. Nebraska Chapter of the American Fisheries Society annual meeting, Omaha, Nebraska.
- Schumann, D.A., W.W. Hoback, and K.D. Koupal. 2013. Complex interactions between native and invasive species: multiple negative effects result in differential displacement of two topminnow native to Nebraska (Actinopterygii: Fundulidae). Nebraska Chapter of the American Fisheries Society annual meeting, Omaha, Nebraska.
- Schumann, D.A., M.C. Cavallaro, and W.W. Hoback. 2012. Size selective predation of fish by *Hydrophilis triangularis* (Coleoptera: Hydrophilidae) and *Lethocerus americanus* (Hemiptera: Belostomatidae). North Central Branch Entomological Society of American meeting, Lincoln, Nebraska.
- Schumann, D.A., K.D. Koupal, C.W. Schoenebeck, and W.W. Hoback. 2012. Evaluation of sprayed fluorescent pigment as a method to mass mark fish. University of Nebraska at Kearney Student Research Day, Kearney, Nebraska.
- Schumann, D.A., K.D. Koupal, W.W. Hoback, S. Schainost, and C.W. Schoenebeck. 2012.

 Movement patterns of plains topminnow, *Fundulus sciadicus*, in Nebraska lotic systems.

 Oral presentation. Nebraska Chapter of the American Fisheries Society annual meeting, Omaha, Nebraska.
- Schumann, D.A., K.D. Koupal, and W.W. Hoback. 2011. Seasonal dynamics of an invasive fish species: potential effects beyond an established range. The Midwest Fish and Wildlife Conference, Des Moines, Iowa.
- Koupal, K.D., and D.A. Schumann. 2011. Management of plains topminnow in Nebraska: attempted reintroductions for species conservation. Nebraska Natural Legacy Project: First Annual Conference, Grand Island, Nebraska.
- Schumann, D.A., and W.W. Hoback. 2011. Giant water-bug, *Lethocerus americanus*, consumption of western mosquitofish, *Gambusia affinis*. University of Nebraska at Kearney Student Research Day, Kearney, Nebraska.
- Schumann, D.A., and W.W. Hoback. 2011. Predation by the giant water-bug, *Lethocerus americanus*, on western mosquitofish, *Gambusia affinis* North Central Branch Entomological Society of America meeting, Minneapolis, Minnesota.
- Schumann, D.A., W.W. Hoback, and K.D. Koupal. 2011. Aggressive behaviors of western mosquitofish, *Gambusia affinis*, and their effects on plains topminnow, *Fundulus sciadicus*. Nebraska Chapter of the American Fisheries Society annual meeting, Omaha, Nebraska.
- Schumann, D.A., C.A. Pasbrig, K.D. Koupal, and W.W. Hoback. 2011. Captive breeding and reintroduction: a method to conserve plains topminnow in Nebraska. Great Plains Fisheries Workers Association annual meeting, Sidney, Nebraska.

Schumann, D.A., C.A. Pasbrig, W.W. Hoback, J.D. Haas, and K.D. Koupal. 2010. Current plains topminnow, *Fundulus sciadicus*, distribution in Nebraska and potential threats. The Midwest Fish and Wildlife Conference, Minneapolis, Minnesota.

HONORS RECEIVED

11011011011	2011-122
2017	John E. Skinner Memorial Award, American Fisheries Society
	Instructor of the Year, Minnesota Percussion Association
2016	Teacher of the Year (nominated), Department of Natural Resource Management Instructor of the Year (nominated), Minnesota Percussion Association
2015	David W. Willis Fisheries Research Award, Department of Natural Resource Management
	Robert A. Klumb Memorial Scholarship, Dakota Chapter of the American
	Fisheries Society
	Joan Duffy Student Travel Award, North Central Division of the American
	Fisheries Society
2014	Best Student Paper, Dakota Chapter of the American Fisheries Society
	Best Student Poster, Dakota Chapter of the American Fisheries Society
2013	Distinguished Thesis Award , University of Nebraska at Kearney, Midwest Association of Graduate Schools
	Outstanding Fisheries Student Award, Nebraska Chapter of the American Fisheries Society
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	Best Presentation Award, Graduate Studies and Research Student Research
	Day, University of Nebraska at Kearney

PROFESSIONAL SERVICE

2017	Nebraska Nongame and Endangered Species Conservation Act: Invited to provide expert review of Nebraska's threatened and endangered species list
2014-2017	Education Section of the American Fisheries Society: Newsletter Committee Co-Chair
2016	Symposium Chair: "Managing Riverscapes: Conservation Tools to Assess and Improve Stream Fisheries" 146 th Annual Meeting of the American Fisheries Society, Kansas City, Missouri.
2015	Education Section of the American Fisheries Society: Excellence in Fisheries Education Award Committee
2014-2015	South Dakota State University Student Subunit of the American Fisheries Society: Vice-President

South Dakota State University SEEDS Chapter of the Ecological Society of America: Undergraduate Research Coordinator

Peer-reviewed manuscripts for: Freshwater Biology, The American Midland Naturalist, Aquatic Ecology, The North American Journal of Fisheries Management

PROFESSIONAL AFFILIATIONS

2006-present	American Fisheries Society
-	Education Section (2013-present)
	Dakota Chapter (2013-2017)
	South Dakota State University Student Subunit (2013-2017)
	Nebraska Chapter (2010-2014)
	Wisconsin Chapter (2008-2009)
	University of Wisconsin-Stevens Point Student Subunit (2006-2009)
2010-2016	Ecological Society of America
	Aquatic Ecology Section (2014-2016)
	South Dakota State University SEEDS Chapter (2013-2016)
2014-2016	Southwestern Association of Naturalists
2015	American Society of Ichthyologists and Herpetologists
2010-2012	University of Nebraska at Kearney Student Subunit of the Wildlife Society
2010-2012	Entomological Society of America
2010-2011	Great Plains Fisheries Workers Association

COMPUTER AND TECHNOLOGY SKILLS

<u>Statistical, programming, graphical software</u>: ArcGIS, SAS, R Studio, Primer, BUGS, MetaWin, SigmaPlot, Presence, MARK, MicroFish, Past, GPower

General software: Microsoft Office (Word, Excel, PowerPoint, Access), EndNote, Blackboard,

 $Web Advisor, \, Desire 2 Learn, \, Cyber Tracker, \, Hobo Ware \, Pro$

<u>Taxonomic expertise</u>: Ichthyology, Aquatic entomology, Freshwater macroinvertebrates (mussels, crayfish), Aquatic macrophytes, Phycology