

Curriculum Vitae

Jeff Wesner, Ph.D.
Assistant Professor
Department of Biology
University of South Dakota

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EDUCATION

<u>Institution</u>	<u>Area of Specialization</u>	<u>Degree</u>	<u>Year Earned</u>
University of Oklahoma	Zoology/Ecology	Ph.D.	2010
Western Carolina University	Biology/Ecology	M.S.	2005
University of Oklahoma	Zoology	B.S.	2002

POSITIONS

<u>Institution</u>	<u>Position/Title</u>	<u>Dates</u>
University of South Dakota	Assistant Professor	2013-present
Colorado State University/USGS	Postdoc	2012-2013
Brigham Young University	Postdoc	2010-2012
Sam Noble Okla. Museum of Natural History	Graduate Research Assistant	2005-2010
University of Oklahoma	Graduate Teaching Assistant	2005-2010
Western Carolina University	Graduate Teaching Assistant	2003-2005
University of Oklahoma	Undergrad Research Assistant	2001-2003
Oklahoma Fisheries Research Laboratory	Undergrad Research Assistant	2002-2003

TEACHING

COURSES TAUGHT

2017-pres	Inquiry and Analysis in Biology (BIOL 280) – USD
2016-pres	Bayesian Statistics (BIOL 792) – USD
2016-pres	Introductory Biology for non-majors (BIOL 103) – USD
2015-pres	Environmental Science (BIOL 310) – USD
2015	Restoration Ecology (UHON 490/BIOL 592) – USD
2015/17	Senior Seminar (BIOL 490) – USD
2014-16	Graduate Seminar (BIOL 790/890) –USD
2014	Biodiversity and Ecosystem Functioning (BIOL 492/592) – USD
2014-pres	Ecosystem Ecology (BIOL 492/592) – USD
2013/16	Foundations of Ecology (BIOL 792) – USD
2013/14	<i>Guest Lectures</i> (Freshwater Ecology/Sustainability/River Ecosystems)
2005-2010	Graduate Teaching Assistant (Human Anatomy) – Univ of Oklahoma (OU)
2009	Instructor of Record (Introduction to Zoology) – OU
2008	Graduate Teaching Assistant (Ichthyology) – OU
2007/2008	Graduate Teaching Associate (Human Anatomy) – OU
2007	Guest Lecturer (Human Anatomy) – OU
2006	Guest Lecturer (Concepts in Biology) – OU
2003-2005	TA (Ecology, Genetics, Environmental Biology, Introductory Biology) – WCU

PUBLICATIONS (n=25) *undergraduate author **graduate author

Peer-reviewed

- 2018 Sazama, EJ**, SP Ouellette, and **JS Wesner**. *Accepted with revision*. Bacterial endosymbionts are common among, but not necessarily within, insect species. *Ecological Entomology*.
- Wesner, JS**, DM Walters, and RE Zuellig. *In press*. Pulsed salmonfly emergence and its potential contribution to terrestrial detrital pools. *Food Webs*
- Henry, BL**, and **JS Wesner**. 2018. Severing ties: Different responses of larval and adult aquatic insects to atrazine and selenium. *Environmental Science & Technology* 52:8848-8857.
- Warmbold, JW**, and **JS Wesner**. 2018. Predator foraging strategy mediates the effects of predators on local and emigrating prey. *Oikos* 127:579-589.
- Walters, DM, **JS Wesner**, RE Zuellig, DA Kowalski, and MC Kondratieff. 2018. Holy flux: spatial and temporal variation in massive pulses of emerging insect biomass from western U.S. rivers (The Scientific Naturalist). *Ecology* 99:238-240.
- 2017 Wanty, RB, LS Balistreri, **JS Wesner**, DM Walters, TS Schmidt, CA Stricker, J Kraus, and RE Wolf. 2017. *In vivo* isotopic fractionation of zinc combined with novel biodynamic modeling yields insights into detoxification mechanisms in the mayfly *Neocloeon triangulifer*. *Science of the Total Environment* 609:1219-1229.
- Wesner, JS**, DM Walters, TS Schmidt, JM Kraus, CA Stricker, WC Clements, RE Wolf. 2017. Metamorphosis affects metal concentrations and isotopic signatures in a mayfly (*Baetis tricaudatus*): Implications for the aquatic-terrestrial transfer of metals. *Environmental Science & Technology* 51:2438-2446.
- Sazama, EJ**, MJ Bosch*, CS Shouldis*, SP Ouellette, **JS Wesner**. 2017. Incidence of *Wolbachia* in aquatic insects. *Ecology and Evolution* 7:1156-1169.
- 2016 **Wesner, JS**. 2016. Contrasting effects of fish predation on benthic versus emerging prey: a meta-analysis. *Oecologia* 180:1205-1211.
- Allen, DC and **JS Wesner**. 2016. Synthesis: comparing effects of resource and consumer fluxes into recipient food webs using meta-analysis. *Ecology* 97:594-604*.
*F1000 Recommendation
- Belk, MC, M Maxwell, C Laidlaw, **JS Wesner**. 2016. Building a better June Sucker: characterization of mouth shape in the captive brood stock. *Open Fish Science Journal* 9:29-36.
- 2015 **Wesner, JS**, P Meyers, EJ Billman, and MC Belk. 2015. Habitat selection and consumption across a landscape of multiple predators. *Ecology and Evolution* 5:121-129.

- Wesner, JS**, and MC Belk. 2015. Variation in the trophic position of common stream fishes and its relationship to the presence of a rare fish, northern leatherside chub (*Lepidomeda copei*). *Ecology of Freshwater Fish* 24:234-241.
- 2014 Kraus, JM, DM Walters, **JS Wesner**, CA Stricker, TS Schmidt, and RE Zuellig. 2014. Metamorphosis alters contaminant transfer and diet tracers in insects. *Environmental Science & Technology* 48:10957-10965*.
 *Featured as an Editor's Choice by the American Chemical Society
 *Featured on CBS radio – KNX Los Angeles
- Wesner, JS**, JM Kraus, TS Schmidt, DM Walters and WH Clements. 2014. Metamorphosis enhances the effects of metal exposure on the mayfly, *Centroptilum triangulifer*. *Environmental Science & Technology* 48:10415-10422.
- 2013 **Wesner, JS**. 2013. Fish predation alters benthic, but not emerging, insects across whole pools of an intermittent stream. *Freshwater Science* 32:438-449.
- 2012 **Wesner, JS**, EJ Billman, and MC Belk. 2012. Multiple predators indirectly alter community assembly across ecological boundaries. *Ecology* 93:1674-1682.
- Wesner, JS**. 2012. Emerging aquatic insects as predators in terrestrial systems across a gradient of stream temperature in North and South America. *Freshwater Biology* 57:2465-2474.
- Wesner, JS**, and MC Belk. 2012. Habitat relationships among biodiversity indicators and co-occurring species in a freshwater fish community. *Animal Conservation* 15:445-456.
- Wesner, JS**. 2012. Predator diversity effects cascade across an ecosystem boundary. *Oikos* 121:53-60. *Nominated for the Hynes Award from the Society for Freshwater Science.
- Gillette, DP, AM Fortner, NR Franssen, S Cartwright, CM Franssen, **JS Wesner**, PC Reneau, FH Reneau, IB Schlupp, EC Marsh-Matthews, WJ Matthews, and CW Lee. 2012. Patterns of change over time in darter (Teleostei: Percidae) assemblages of the Arkansas River basin, northeastern Oklahoma, USA. *Ecography* 35:1-10.
- 2011 **Wesner, JS**, EJ Billman**, A Meier*, and MC Belk. 2011. Morphological convergence during pregnancy among predator and non-predator populations of the livebearing fish *Brachyrhaphis rhabdophora* (Teleostei: Poeciliidae). *Biological Journal of the Linnean Society* 104:386-392.
- Wesner, JS**. 2011. Shoaling species drive fish assemblage response to sequential large floods in a small Midwestern U.S.A. stream. *Environmental Biology of Fishes* 91:231-242.
- Wesner, JS**, JW Cornelison, CD Dankmeyer*, PF Galbreath, and TH Martin. 2011. Growth, pH tolerance, survival, and diet of introduced northern and native southern

strain Appalachian brook trout. *Transactions of the American Fisheries Society* 140:37-44.

2010 **Wesner, JS.** 2010. Aquatic predation alters a terrestrial prey subsidy. *Ecology* 91:1435-1444.

Wesner, JS. 2010. Seasonal variation in the trophic structure of a spatial prey subsidy linking aquatic and terrestrial food webs: adult aquatic insects. *Oikos* 119:170-178.

In Review

Sazama, EJ**, SP Ouellette, **JS Wesner.** *In review.* Bacterial endosymbionts are common among, but not necessarily within, insect species. *Environmental Entomology*

BOOK CHAPTERS

Submitted **Wesner, JS,** JM Kraus, BL Henry**, and J Kerby. Metamorphosis and the impact of contaminants on ecological subsidies. In: JM Kraus, DM Walters, and MA Mills (eds) *Contaminants and Ecological Subsidies at the Land-Water Interface.* Springer.

REPORTS AND PROCEEDINGS

Kerby, JL, **JS Wesner,** M Schwarz. 2018. Examining the impacts of agricultural tile drainage on wetland fauna in eastern South Dakota. Final Report to South Dakota, Game, Fish, and Parks for grant T-68-R-1.

Wanty, RB, LS Balistreri, **JS Wesner,** DM Walters, TS Schmidt, F Podda, G De Giudici, CA Stricker, J Kraus, P Lattanzi, RE Wolf, R Cidu. 2015. Isotopic insights into biological regulation of zinc in contaminated systems. *Procedia Earth and Planetary Science* 13:60-63.

Carr, NB, SL Garman, A Walters, A Ray, CP Melcher, **JS Wesner,** MS O'Donnell, KR Sherrill, and ZH Bowen. 2013. Wyoming Basin Rapid Ecoregional Assessment: U.S. Geological Survey Fact Sheet 2013-3062. 2 p.

Wesner, JS, and MC Belk. 2011. Characterization of mouth shape phenotype in the captive brood stock of June sucker, *Chasmistes liorus*. Annual Report to June Sucker Recovery Implementation Project.

Wesner, JS, and MC Belk. 2011. Aquatic and terrestrial factors influencing the distribution of a potential biodiversity indicator species in the Bear River Drainage, WY, USA: northern leatherside chub (*Lepidomeda copei*). Annual Report to the Bureau of Land Management.

Wesner, JS and G. Gilliland. 2002. Oklahoma bass tournaments 2002 annual report. Oklahoma Department of Wildlife Conservation. *Featured on ESPN.com.*

FUNDING (\$1,057,310 total)

Extramural Grants

As PI or Co-PI (\$446,141 at USD)

- 2018-2020 **National Science Foundation**, EAGER: Stage-structured predation between fish and insects. Jeff Wesner (**PI**). Award #1837233. \$199,976
- 2019-2020 **National Park Service**, Evaluate the Biologic Response of a Restored Missouri River Backwater. David Swanson (PI), Jeff Wesner (Co-PI), Mark Dixon (Co-PI). \$29,695
- 2015-2018 **South Dakota Game, Fish, and Parks**, Examining the impacts of agricultural tile drainage on wetland fauna in eastern South Dakota. Jake Kerby (PI), Jeff Wesner (Co-PI). \$185,920

As supporting, shadow-PI, or major awards to graduate students (\$522,719 at USD)

- 2016-2019 **National Science Foundation**. REU Site: Sustainable RIVER (Remediating InVasives to Encourage Resilience). PI – M Jarchow. JS Wesner (**Supporting**) + 8 others. \$363,662 total.
- 2015-2018 **National Science Foundation** Graduate Research Fellowship to Brianna Henry, Evaluating the impacts of chemical stressors on larval and emerging aquatic insects. \$138,000. **Advised by JS Wesner.**
- 2015-2016 **U.S. Environmental Protection Agency**, Characterization of sediment sources in the Lewis and Clark Lake Delta, Missouri Sedimentation Action Committee, \$21,057 (\$3,900 to Wesner). Sweeney, M. (PI), Cowman, T (Co-PI), Jeff Wesner (**Supporting**), Dixon, M (Supporting).
- 2011 **The Roger and Victoria Sant Educational Endowment for a Sustainable Environment**. Trophic niche influence on population movement and growth rate of stream fishes of the western U.S. M Belk (PI), Jeff Wesner (**Co-PI – shadow**), \$17,200
- 2011 **Bureau of Land Management**. Trophic niche influence on population movement and growth rate of northern leatherside chub (*Lepidomeda copei*). M Belk (PI), Jeff Wesner (**Co-PI – shadow**), \$80,000

Intramural Grants Received (\$21,800 at USD)

- 2015-18 **USD**, USD Faculty Travel Grant, JS Wesner (**PI**), \$3,600 total (~\$900 per year)
- 2015 **USD**, Freshwater ecosystem studies at USD's Experimental Aquatic Research Site (ExARS) – JS Wesner (**PI**), \$8,800
- 2013 **USD**, Model systems to understand threats to freshwater ecosystems New Faculty Grant – JS Wesner (**PI**), \$9,400
- 2009 **OU**, Robberson Travel Grant –\$500
- 2006/2007 **OU**, Graduate Student Senate Research Activity Grant – 2006 and 2007, \$550

INVITED SEMINARS

Lund University, Sweden 2018 – Aquatic-Terrestrial Action Group
North Dakota State University 2018
Colorado State University 2016
Iowa State University 2015 – Keynote for Environmental Science Symposium
University of South Dakota 2015 – Sigma Xi Lecture
South Dakota State University 2013
University of South Dakota 2013
University of Northern Colorado 2012
University of Alaska – Fairbanks 2012
University of Alaska – Lena Point 2012
U.S. Geological Survey, Fort Collins, CO 2012
Brigham Young University 2010/2011
Sam Houston State University 2011
University of Oklahoma 2010

Conference Presentations (Since 2013 only. ^graduate/undergraduate student)

- Sandoval, Y[^], A Kanz[^], and **JS Wesner**. Stage-structured feeding in Common Carp and Spottfin Shiner. SDEPSCoR research symposium. Pierre, SD, August 2018.
- Seidel, T[^], **JS Wesner**. Effects of fishes on aquatic insects in linked aquatic-terrestrial food webs. Society for Freshwater Science, Raleigh, NC, May 2018.
- Henry, B[^]. MN Croteau, DM Walters, DJ Cain, J Miller, **JS Wesner**. Bioaccumulation dynamics and transfer of uranium across metamorphosis in mayfly *Neocloeon triangulifer*. Society for Freshwater Science, Raleigh, NC, May 2018.
- Wesner, JS**, B. Henry. Responses of aquatic insect emergence to tile drains in the prairie potholes. Society for Freshwater Science, Raleigh, NC, May 2018.
- Wesner, JS**, and T. Seidel[^]. Cross-ecosystem effects of stage-structured predator-prey interactions. Gordon Conference, Ventura, CA, February 2018.
- Seidel, T[^], and **JS Wesner**. Effects of fishes on aquatic insects in linked aquatic-terrestrial food webs. National Science Foundation REU Symposium. Washington, DC, October 2017.
- Seidel, T[^], and **JS Wesner**. Effects of fishes on aquatic insects in linked aquatic-terrestrial food webs. American Indian Science and Engineering Society Annual Meeting. Denver, CO, September 2017. *Tyler won 1st place overall for his poster presentation
- Seidel, T[^], and **JS Wesner**. Effects of fishes on aquatic insects in linked aquatic-terrestrial food webs. SDEPSCoR research symposium. Pierre, SD, August 2017.
- Wesner, JS**, L Henning, DC Allen. Are the effects of subsidies at the freshwater-terrestrial boundary consistent across multiple ecosystem boundaries? Society for Freshwater Science, Raleigh, NC, June 2017.
- Henry, B[^]. J Kerby, **JS Wesner**. How do atrazine and selenium impact the link between water and land? Society for Freshwater Science, Raleigh, NC, June 2017.
- Sazama, E[^], SP Ouellette, **JS Wesner**. Prevalence and spatial distribution of Wolbachia within aquatic insects of the Missouri River and associated drainages. Society for Freshwater Science, Raleigh, NC, June 2017.
- Henning, L[^], **JS Wesner**. Short-term responses of benthic and emerging insects to damselfly predation. Society for Freshwater Science, Raleigh, NC, June 2017.

- Oddy, E[^], **JS Wesner**. Spatial and temporal variation in insect emergence from four backwaters of the Missouri river. Society for Freshwater Science, Raleigh, NC, June 2017.
- Nearman, C[^], **JS Wesner**, L Henning, E Sazama, B Henry, E Rolfes, W Waage, S Olson. Minimal effects of fathead minnows on insect emergence from outdoor mesocosms. Society for Freshwater Science, Raleigh, NC, June 2017.
- Wesner, JS**, and JW Warmbold. Contrasting effects of fish predation on benthic versus emerging insects in the Missouri National Recreational River. Midwest Fish & Wildlife Conference, Lincoln, NE. 6 Feb 2017.
- Aplan, I[^], E Marconi, S Maestas[^], **JS Wesner**, H Britten. DNA extraction from leathers and drum heads: Developing an authentication method," SD EPSCoR Undergraduate Research Symposium, Pierre, SD. August 2016.
- Farkas, J[^], D. Davis[^], B Henry[^], **JS Wesner**, J Kerby. The effect of agricultural runoff on fish habitat in the Prairie Pothole region. American Society of Ichthyology and Herpetology, New Orleans, July 2016.
- Siddons, S[^], **JS Wesner**, J Kerby. Increased species richness reduces pathogen infection risk in amphibians: a meta-analysis. American Society of Ichthyology and Herpetology, New Orleans. July 2016
- Wesner, JS**, J Warmbold[^]. Contrasting effects of fish predation on benthic versus emerging insects. Society for Freshwater Science, Sacramento, CA, May 2016.
- Henning, L[^], **JS Wesner**. A systematic review of the study of fish effects on benthic and emerging aquatic insects. Society for Freshwater Science, Sacramento, CA, May 2016.
- Henry, B[^], J Kerby, **JS Wesner**. Effects of selenium and pesticides on aquatic-terrestrial resource subsidies in the Prairie Potholes. Society for Freshwater Science, Sacramento, CA, May 2016.
- Sazama, E[^], C. Shouldis[^], SP Ouellette, **JS Wesner**. Prevalence and spatial distribution of Wolbachia within aquatic insects of the Missouri River and associated drainages. Society for Freshwater Science, Sacramento, CA, May 2016.
- Henry, B[^], **JS Wesner**, J Kerby. Effects of selenium and pesticides on aquatic-terrestrial resource subsidies in the Prairie Potholes. South Dakota Academy of Science, Sioux Falls, SD, April 2016.
- Wesner, JS**, J. Warmbold[^]. Fish reduce algae and insect emergence by > 90% in a Missouri River backwater. South Dakota Academy of Science, Sioux Falls, SD, April 2016.
- Sazama, E[^], C. Shouldis[^], SP Ouellette, **JS Wesner**. Prevalence and spatial distribution of Wolbachia within aquatic insects of the Missouri River and associated drainages. South Dakota Academy of Science, Sioux Falls, SD, April 2016.
- Bosch, M[^], E. Sazama[^], **JS Wesner**. Threshold behavior of Wolbachia spread in insect populations. South Dakota Academy of Science, Sioux Falls, SD, April 2016.
- Wesner, JS**, J Warmbold[^]. Fish reduce algae and insect emergence by > 90% in a Missouri River backwater. Missouri River Institute, Vermillion, SD, April 2016.
- Sazama, E[^], C. Shouldis[^], SP Ouellette, **JS Wesner**. Prevalence and spatial distribution of Wolbachia within aquatic insects of the Missouri River. Missouri River Missouri River Institute, Vermillion, SD, April 2016.
- Wesner, JS**, and DC Allen. Resource and consumer fluxes at the water-land interface

- and beyond: a meta-analysis. American Fisheries Society, Portland, OR, August 2015. *Invited symposium presentation (Cross-Ecosystem Resource Subsidies: From Land to Water and Back Again)*.
- Warmbold, JW[^], and **JS Wesner**. An emerging decline: large consumers reduce aquatic insect emergence by an order of magnitude in a Missouri River backwater. American Fisheries Society, Portland, OR, August 2015.
- Wesner, JS**, DM Walters, TS Schmidt, JM Kraus, R Wanty, R Stricker and WH Clements. Metal concentrations decline by an order of magnitude during metamorphosis in the mayfly (*Baetis tricaudatus*). Society for Freshwater Science, Milwaukee, WI, May 2015.
- Warmbold, JW[^], and **JS Wesner**. An emerging decline: large consumers reduce aquatic insect emergence by an order of magnitude in a Missouri River backwater. Society for Freshwater Science, Milwaukee, WI, May 2015.
- Sazama, E[^], Ouellette, SP, and **JS Wesner**. Surveying the presence of *Wolbachia* in the Missouri River ecosystem, Milwaukee, WI, May 2015.
- Wesner, JS**, JM Kraus, TS Schmidt, DM Walters and WH Clements. Metamorphosis enhances the effects of metal exposure on the mayfly, *Centroptilum triangulifer*. Ecological Society of America, Sacramento, CA, August 2014.
- Kraus, J, Walters, D., **Wesner, JS**, Stricker, C., and Schmidt, T. Metamorphosis in insects alters risk of contaminant exposure in food webs. Joint Aquatic Sciences Meeting, Portland, OR, May 2014.
- Walters, DM, Zeullig, R., Kowalski, D., **Wesner, JS**. Quantifying the emergence of the giant stonefly (*Pteronarcys californica*) and its importance to terrestrial food webs in U.S. western rivers. Joint Aquatic Sciences Meeting, Portland, OR, May 2014.
- Wesner, JS**, Kraus, J., Schmidt, T., Walters, D., Clements, W. The effects of aqueous zinc exposure are enhanced during mayfly metamorphosis in the lab. Joint Aquatic Sciences Meeting, Portland, OR, May 2014.
- Kraus, J, Walters, D., **Wesner, JS**, Stricker, C., Schmidt, T. Metamorphosis in insects alters risk of contaminant exposure in food webs. Rocky Mountain SETAC, Laramie, WY, April 2014.
- Wesner, JS**, Kraus, J., Schmidt, T., Walters, D., Clements, W. Metal exposure increases mortality of aquatic insects during metamorphosis. Rocky Mountain SETAC, Laramie, WY, April 2014.
- Schmidt, T, Kraus, J., **Wesner, JS**, Walters, D. The living dead: When aquatic life standards protect aquatic insect larvae but not adults. Rocky Mountain SETAC, Laramie, WY, April 2014.
- Walters, A, N Carr, K Sherrill, and J Wesner. What insight can the Wyoming Basin Rapid Ecoregional Assessment provide for fisheries and aquatic habitat management in Wyoming? Colorado Wyoming Chapter of the American Fisheries Society, Laramie, WY, 4 March 2014.
- Kraus, JM, DM Walters, **JS Wesner**, CA Stricker, TS Schmidt, and RE Zuellig. Metamorphosis in insects alters contaminant transfer, diet tracers and risk to wildlife. Society for Environmental Toxicology and Chemistry, Nashville, TN, 19 November 2013.
- Wesner, JS**, JM Kraus, TS Schmidt, DM Walters, and WH Clements. The role of metamorphosis in regulating metal flux from aquatic to terrestrial food webs.

Entomological Society of America, Austin, TX, 10 November 2013.

HONORS AND RECOGNITIONS

- 2018 Nominated for Belbas Larson Award for Excellence in Teaching (USD)
- 2017 Certificate of Achievement – Outstanding Mentorship. USD Chapter of the American Indian Science and Engineering Society (USD)
- 2015 Nominated for the Hynes Award (Society for Freshwater Science) (USD)
- 2010 Wilks Award Finalist – Southwestern Association of Naturalists (OU)
- 2008/2009 Adams Memorial Scholarship in Zoology (OU)
- 2008 OU Biological Station (UOBS) Graduate Research Fellowship (OU)
- 2008 Award for Excellence in Graduate Teaching, Department of Zoology (OU)
- 2007 UOBS Graduate Research Fellowship (OU)

SERVICE AND ENGAGEMENT

EXTERNAL SERVICE

Extramural Review Panels

- 2018 Ad hoc reviewer for NERC proposal (UK equivalent of NSF)
- 2018 Panelist, National Science Foundation, Division of Environ. Biol. (invited)
- 2014 Panelist, National Science Foundation, Graduate Research Fellowship Program
- 2014 Ad hoc reviewer for R.C. Good Fellowship grant proposal (Denison University)

Editorships/Reviewing

- 2017 Ad hoc reviewer for USD proposal to the Board of Regents
- 2010-present Journal Reviewer (~10 papers per year, 26 different journals): *Ecology Letters*, *Ecology*, *Oecologia*, *Oikos*, *Ecological Monographs*, *Global Change Biology*, *Environmental Science & Technology*, *Biology Letters*, *Proceedings of the Royal Society B – Biological Sciences*, *Journal of Animal Ecology*, *Environmental Science and Pollution*, *Freshwater Science*, *Genomes*, *Environmental Biology of Fishes*, *Ecology of Freshwater Fish*, *Biological Conservation*, *Environmental Toxicology & Chemistry*, *Ecological Entomology*, *Austral Ecology*, *Western North American Naturalist*, *Journal of Ecology and the Natural Environment*, *Zoological Studies*, *BMC Evolutionary Biology*, *Hydrobiologia*, *Southwestern Naturalist*, *Western North American Naturalist*, *Sustainability*

State Service

- 2016-17 Presentations of water quality and wildlife diversity in managed wetlands to the SD State Wildlife Management Agency, Mitchell, SD

Other Activities

- 2017/18 Co-Chair, Annual Meeting of the Society for Freshwater Science, Detroit, MI.
- 2016-present Mentored SD BRIN research (high school biomedical science research)
- 2015-present “Day in the Water” for USD RAP and Upward Bound students (high school).
- 2015 Mentored K-12 research with Vermillion Public Schools
- 2014 River biodiversity demonstration at USD chapter of AISES
- 2013 Student presentation judge for SFS, Jacksonville, FL
- 2012 Moderator, Society for Freshwater Science, Louisville, KY

- 2010/11 Faculty advisor for the BYU student chapter of the American Fisheries Society
- 2011 Moderator, North American Benthological Society, Providence, RI
- 2011 Student presentation judge for NABS (Providence, RI)
- 2009 Advisor for International Science and Engineering Fair (high school)
- 2006/7 Graduate Student Senator, University of Oklahoma
- 2004 Volunteer advisor for Upward Bound project at Western Carolina University

Social media/Web presence

- 2015-present Social Media: My lab maintains an active twitter account about our USD research: @wesnerlab (346 followers)
- 2015-present Blog: I occasionally blog about our research or science in general.
www.thewesnerlab.com

UNIVERSITY SERVICE

University

- 2015-present Interviewer, USD Scholarship Committee
- 2017 Faculty Senate – Biology proxy for Dr. Summers (Nov. 1)
- 2016-present Workshop on research writing for undergraduates – USD

College of Arts & Sciences

- 2018-present A&S Student Scholarship Committee
- 2017 Curriculum and Instruction Committee

Department of Biology

- 2018 Graduate Program Coordinator/Chair of Graduate Selections Committee
- 2018-present Website liaison
- 2017 Faculty search committee for Spatial Modeler
- 2014-present Graduate Selections Committee
- 2017 Faculty search committee for Ecological Modeler
- 2015 Faculty search committee for Integrative Biology
- 2015 Animal Use Committee
- 2014 Equipment Committee

MENTORING

GRADUATE STUDENT MENTORING

Ph.D. Supervisor

Eric Sazama, 2014-present, *scheduled to defend November 2018*

M.S. Supervisor

Brianna Henry, 2015-2018, *successfully defended in 2018*
 Lauren Henning, 2015-2018, *successfully defended in 2018*
 Jerry Warmbold, 2014-2016, *successfully defended in 2016*
 Abraham Kanz, 2017-present

M.S. Non-thesis Supervisor

Kayla Jarandson, 2018-present (Accelerated M.S.)

Graduate student committee member

Anna Kase Ph.D. 2018-present
Rachel Drown M.S. 2018-present
Kaitlynn Campbell Ph.D. 2018-present
Catherine Beal M.S. 2017-present
Jillian Farkas M.S. 2016-present
Brian Lowery Ph.D. 2016-present
Laura Jackson Ph.D. 2015-present
Patricia Dombrowski M.S. 2015-present
Eva Soluk M.S. 2015-2018
Lauren Maestes Ph.D. 2015-2018
Abby Davis M.S. 2014-2015
Spencer Siddons M.S. 2014-2016
Naomi Sazama, M.A. (Mathematics) 2015

UNDERGRADUATE RESEARCH MENTORING

Yasmeen Sandoval, Nebraska Indian Community College – NSF REU at USD, 2018
Kierra Determan, USD – Fish predation and insect responses, 2018
Zach Dibbern, USD – Fish predation and insect responses, 2018
Trevor Pease, USD – Stage-structured fish predation, 2017
Tyler Seidel, USD – Fish predation and insect emergence, NSF REU, 2017
Erika Oddy, USD – Insect emergence phenology from the Missouri River, 2016-17
Amanda Hegg, USD – Wetland insect sorting, 2015
Charlie Nearman, USD – Wetland invertebrates and fish predation, 2015-17
Erika Oddy, USD – Fish and insect ecology, 2015-17
Michael Bosch, USD – Bacterial modeling, 2015-16
Hannah Steinley, USD – Insect sorting, 2015-16
Justin Schaefer, USD – Water quality and aquatic invertebrates, 2014-2015
Spencer Neuharth, USD – Formalin as an antifungal treatment for fish eggs, 2014-2015

Honors thesis committees (* indicates chair of committee)

Kristie Jo Schmidt, USD – Aggressive behaviors in Betta fish, 2018
Audra Van Ekeren*, USD – Fatty acids in adult aquatic insects, 2017
Kaitlyn Ashley, USD – Climate change and the Hine's Emerald Dragonfly, 2016
Liz Berg, USD – Amphibian microbiomes and *Bd* infection, 2015
Kaitlyn Stern, USD – Pesticide chemistry (Department of Chemistry), 2015