

MARTIN J. HAMEL

Assistant Professor
University of Georgia
Warnell School of Forestry and Natural Resources
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EDUCATION

PhD 2013 University of Nebraska, Lincoln; Natural Resource Sciences – Applied Ecology Specialization;
Dissertation: Determining *Scaphirhynchus* Sturgeon Population Demographics and Dynamics:
Implications for Range-Wide Management, Recovery, and Conservation; Advisor: M.A. Pegg

MS 2006 South Dakota State University; Wildlife and Fisheries Sciences – Fisheries Specialization;
Thesis: Behavioral Responses of Rainbow Smelt to Sensory Deterrent Systems; Advisor: M.L.
Brown

BS 2003 Upper Iowa University; Conservation Management and Biology; Senior Thesis Project:
Crepidostomum in Rock Bass (*Ambloplites rupestris*); Advisor: R. Klann

AAS 2001 Kirkwood Community College; Parks and Natural Resources

PROFESSIONAL APPOINTMENTS

2019-present Assistant Professor, Warnell School of Forestry and Natural Resources, University of Georgia

2019-present Adjunct Professor, School of Natural Resources, University of Nebraska

2014-2019 Research Assistant Professor, School of Natural Resources, University of Nebraska-Lincoln

2008-2014 Research Technologist II – River Ecology Specialist, School of Natural Resources, University of Nebraska-Lincoln

2006-2008 Fisheries Biologist I, Nebraska Game and Parks Commission

2004-2006 Graduate Research Assistant, South Dakota State University

GRANTS/FUNDING

Hamel, M.J., and A. Fox. Population dynamics and life history of Atlantic and Shortnose Sturgeon in the Altamaha and Savannah Rivers, Georgia, National Marine Fisheries Council, 2021-2023. Total award: \$551,248 (split 50%)

Hamel, M.J. A comparison of seasonal and diel movement patterns and prey selection of Largemouth Bass in simple and complex small impoundments, Soma Foundation, Inc. 2021-2022. Total award: \$159,539

Hamel, M.J. Determining movement dynamics, life history attributes, and angler exploitation of Suwannee Bass in Georgia. Georgia Department of Natural Resources, 2020-2021. Total award: \$96,668

Hamel, M.J., and J. Shelton. Evaluating impacts on sportfish dynamics following the establishment of hydrilla in Lake Sinclair, Georgia. Georgia Power Company, 2020-2021 Total award: \$137,500 (split 50%)

Hamel, M.J., and M.A. Pegg. Blue Catfish Management in the Kansas River. Kansas Wildlife, Parks and Tourism, 2018-2020. Total award: \$206,000 (split 50%)

Hamel, M.J., and M.A. Pegg. Status of Invasive Carps in the Kansas River. Kansas Wildlife, Parks and Tourism, 2018-2020. Total award: \$200,000 (split 50%)

Hamel, M.J., and M.A. Pegg. Continuation: Biological Monitoring of Restored Chutes and Effectiveness in Offsetting Adverse Effects from Levee Construction at the Camp Ashland Training Site for the Nebraska Army National Guard (NEARNG) Environmental Branch. Nebraska Army National Guard, 2017 – 2020. Total award: \$175,777 (split 50%)

Hamel, M.J., and M.A. Pegg. Biological Monitoring of Restored Chutes and Effectiveness in Offsetting Adverse Effects from Levee Construction at the Camp Ashland Training Site for the Nebraska Army National Guard (NEARNG) Environmental Branch. Nebraska Army National Guard, 2014 – 2017. Total award: \$196,946 (split 50%)

Pegg, M.A., and M.J. Hamel. Riverine Sportfish Ecology and Management. Nebraska Game and Parks Commission, 2014 – 2019. Total award: \$401,210 (split 50%).

Burgin, A., M. Pegg, M. Hamel, J. Spurgeon, and J. Hammen. Conservation of large-river fishes: a complementary approach to determine population structure and river-of-origin. UNL Research Council Grant-in-Aid, 2013. Total award \$6,500

PEER-REVIEWED PUBLICATIONS

Authorship key: **Self** – bold
Graduate Student - underline

30. **Hamel, M.J.**, J.J. Spurgeon, M.A. Pegg, and K.D. Steffensen. 2020. Uncovering unique plasticity in life history of an endangered centenarian fish. *Nature Scientific Reports* <https://doi.org/10.1038/s41598-020-69911-1>

29. **Hamel, M.J.**, J.J. Spurgeon, and M.A. Pegg. 2020. Catfish population characteristics among river segments with altered fluvial-geomorphic conditions in the Missouri River, NE, USA. *North American Journal of Fisheries Management* <http://dx.doi.org/10.1002/nafm.10478>

28. Goto, D., **M.J. Hamel**, J.J. Hammen, M.L. Rugg, M.A. Pegg, and V.A. Forbes. 2020. Divergent density feedback control of migratory predator recovery following sex-biased perturbations. *Ecology and Evolution* <https://doi.org/10.1101/828244>

27. Uerling, C.C., **M.J. Hamel**, and M.A. Pegg. 2019. Fish community response to habitat variables in two restored side channels of the lower Platte River, Nebraska. *River Research and Applications* 35:178-187; DOI: <https://doi.org/10.1002/rra.3390>.

26. Steffensen, K.D., **M.J. Hamel**, and J.J. Spurgeon. 2019. Post-stocking pallid sturgeon *Scaphirhynchus albus* growth, dispersal, and survival in the lower Missouri River. *Journal of Applied Ichthyology* 35:117-127.

25. **Hamel, M.J.**, M. Porath, and L.L. Pierce. 2018. Young Professional Survey Results: Member and non-member perspective on decisions to join AFS. A survey of attitudes and perceptions regarding membership to the American Fisheries Society. *Fisheries*; DOI: <https://doi.org/10.1002/fsh.10066>

24. Goto, D., **M.J. Hamel**, J.J. Hammen, M.L. Rugg, M.A. Pegg, and V.L. Vorbes. 2018. Spatially dynamic maternal control of migratory fish recruitment pulses triggered by shifting seasonal cues. *Marine and Freshwater Research* 69:942-961.
23. Spurgeon J.J., **M.J. Hamel**, K.D. Steffensen, and M.A. Pegg. 2018. Spatial structure of large-river fish population across main-stem and tributary habitats. *River Research and Applications* 34:807-815.
22. Steffensen, K.D., and **M.J. Hamel**. 2018. Fin ray removal may be deleterious on *Scaphirhynchus* species. *North American Journal of Fisheries Management* 38:439-445.
21. Hammen, J.J., **M.J. Hamel**, M.L. Rugg, and M.A. Pegg. 2018. Population characteristics of Shovelnose Sturgeon during low- and high-water conditions in the lower Platte River, Nebraska. *North American Journal of Fisheries Management* 38:308-315.
20. **Hamel, M.J.**, A.J. Blank, J.J. Spurgeon, and M.A. Pegg. 2017. Assessment of a channel catfish population in a large open river system. *Fisheries Management and Ecology* 24:460-468.
19. Hammen, J.J., **M.J. Hamel**, M.L. Rugg, and M.A. Pegg. 2017. Habitat associations of shovelnose sturgeon *Scaphirhynchus platyrhynchus* (Rafinesque, 1820) in the lower Platte River, Nebraska. *Journal of Applied Ichthyology* DOI: 10.1111/jai.13513.
18. Phelps, Q.E., S.J. Tripp, **M.J. Hamel**, J. Koch, E.J. Heist, J.E. Garvey, K.M. Kappenman, and M.A.H. Webb. 2016. Status of knowledge of the Shovelnose Sturgeon (*Scaphirhynchus platyrhynchus*, Rafinesque, 1820). *Journal of Applied Ichthyology* 32:249-260.
17. **Hamel, M.J.**, J.J. Spurgeon, C.J. Chizinski, K.D. Steffensen, M.A. Pegg. 2016. Variability in age estimation results in ambiguity and false understanding of population persistence. *North American Journal of Fisheries Management* 36:514-522.
16. **Hamel, M.J.**, J.J. Spurgeon, M.L. Pegg, J.J. Hammen, and M.L. Rugg. 2016. Hydrologic variability influences distribution and occurrence of pallid sturgeon in a Missouri River tributary. *River Research and Application* 32:320-329.
15. Spurgeon, J.J., **M.J. Hamel**, M.A. Pegg. 2016. Multi-scale approach to hydrological classification provides insight to flow structure in an altered river system. *River Research and Applications*. DOI: 10.1002/rra.3041
14. **Hamel, M.J.**, M.L. Rugg, J.J. Hammen, and M.A. Pegg. 2015. Reproductive traits of shovelnose sturgeon *Scaphirhynchus platyrhynchus* (Rafinesque, 1820) in the Lower Platte River, Nebraska. *Journal of Applied Ichthyology*.
13. Spurgeon, J.J., **M.J. Hamel**, M.A. Pegg, and K.L. Pope. 2015. The global status of freshwater fish age validation studies and a prioritization framework for further research. *Reviews in Fisheries Science and Aquaculture* 23:329-345.
12. Hogberg, N.P., **M.J. Hamel**, and M.A. Pegg. 2015. Age-0 channel catfish *Ictalurus punctatus* growth related to environmental conditions in the channelized Missouri River, Nebraska. *River Research and Applications*. DOI: 10.1002/rra.2890.
11. **Hamel, M.J.**, M.A. Pegg, R.R. Goforth, Q.E. Phelps, K.D. Steffensen, J.J. Hammen, and M.L. Rugg. 2014. Range-wide age and growth characteristics of shovelnose sturgeon from mark-recapture data:

implications for conservation and management. *Canadian Journal of Fisheries and Aquatic Sciences* 72:71-82.

10. Goto, D., **M.J. Hamel**, J.J. Hammen, M.L. Rugg, M.A. Pegg, and V.E. Forbes. 2014. Spatiotemporal variation in flow-dependent recruitment of long-lived riverine fish: Model development and evaluation. *Ecological Modelling* 296:79-92.

9. Rugg, M.L., **M.J. Hamel**, M.A. Pegg, and J.J. Hammen. 2014. Validation of annuli formation in pectoral fin rays from shovelnose sturgeon in the lower Platte River, Nebraska. *North American Journal of Fisheries Management* 34:1028-1032.

8. **Hamel, M.J.**, M.A. Pegg, J.J. Hammen, and M.L. Rugg. 2014. Population characteristics of pallid sturgeon in the lower Platte River, Nebraska. *Journal of Applied Ichthyology* 30:1362-1370.

7. **Hamel, M.J.**, J.D. Koch, K.D. Steffensen, M.A. Pegg, J.J. Hammen, and M.L. Rugg. 2014. Using mark-recapture information to validate and assess age and growth of long-lived fish species. *Canadian Journal of Fisheries and Aquatic Sciences* 71:559-566.

6. **Hamel, M.J.**, K.D. Steffensen, J.J. Hammen, and M.A. Pegg. 2013. Evaluation of PIT Tag Retention from Two Tagging Locations in Juvenile Pallid Sturgeon. *Journal of Applied Ichthyology* 29:41-43.

5. **Hamel, M.J.**, J.J. Hammen, and M.A. Pegg. 2012. Tag Retention of T-Bar Anchor Tags and Passive Integrated Transponder Tags in Shovelnose Sturgeon. *North American Journal of Fisheries Management* 32:533-538.

4. **Hamel, M.J.**, N.L. Richards, M.L. Brown, and S.R. Chipps. 2010. Avoidance of Strobe Lights by Zooplankton. *Lake and Reservoir Management* 26:212-216.

3. **Hamel, M.J.**, K.D. Steffensen, P.T. Horner, and S.M. Stukel. 2009. A comparison of catch rate with two different benthic trawls in the Missouri River. *Journal of Freshwater Ecology* 24:625-634.

2. **Hamel, M.J.**, M.L. Brown, and S.R. Chipps. 2008. Behavioral Responses of Rainbow Smelt to *in situ* Strobe Lights. *North American Journal of Fisheries Management* 28:394-401.

1. Neely, B.C., **M.J. Hamel**, and K.D. Steffensen. 2008. A Proposed Standard Weight Equation for Blue Suckers. *North American Journal of Fisheries Management* 28:1450-1452.

PUBLICATIONS IN REVIEW

6. Dean, Q., M.A. Pegg, and **M.J. Hamel**. 2020. *Accepted*. Temporal patterns of capture, retention rates and efficacy of bank poles in the Kansas River: A novel sampling tool for catfish managers. *North American Journal of Fisheries Management*.

5. Werner, J.P., Q.D. Dean, M.A. Pegg, and **M.J. Hamel**. *In preparation*. Population demographics of Silver Carp and Bighead Carp in the Lower Kansas River; a large tributary to the Missouri River. *North American Journal of Fisheries Management*.

4. Werner, J.P., Q.D. Dean, M.A. Pegg, and **M.J. Hamel**. *In preparation*. Efficacy of environmental DNA for assessing the distribution of invasive Asian carp in a large turbid river. *Environmental DNA*.

3. Werner, J.P., Q.D. Dean, M.A. Pegg, and **M.J. Hamel**. *In review*. Environmental history of Silver Carp in the lower Kansas River, Kansas: Insight from otolith microchemistry analysis. *Biological Invasions*.
2. Dean, Q.D., J.P. Werner, M.A. Pegg, and **M.J. Hamel**. *In preparation*. Population characteristics of Blue Catfish in the Kansas River. *North American Journal of Fisheries Management*.
1. Dean, Q.D., J.P. Werner, M.A. Pegg, and **M.J. Hamel**. *In review*. Natal origins and movement patterns of Blue Catfish in the Kansas River. *River Research and Applications*.

TEXTBOOK CHAPTERS

Pracheil, B.M., P.J. Braaten, E.B. Macias, C.S. Guy, D.P. Herzog, **M.J. Hamel**, J.C. Justice, A.R. Loeppky, J.M. Mollish, J.W. Simmons, and S. Tripp. (*In review*). Warmwater fish in rivers in S. Bonar, N.M. Silva, and K. Pope, editors. Standard methods for sampling North American freshwater fishes, 2nd edition. American Fisheries Society, Bethesda, Maryland.

Phelps, Q.E., **M.J. Hamel**, S.A. Tripp, Z. Jackson, and R. Koenigs. 2017. Choice of structure – selecting the appropriate aging structure *in* M.C. Quist and D.A. Isermann, editors. Age and growth of fishes: principles and techniques. American Fisheries Society, Bethesda, Maryland.

THESIS AND DISSERTATION

Hamel, M.J. 2013. Determining *Scaphirhynchus* Sturgeon Population Demographics and Dynamics: Implications for Range-Wide Management, Recovery, and Conservation. Ph.D. Dissertation. University of Nebraska-Lincoln, Lincoln, Nebraska.

Hamel, M.J. 2006. Behavioral Responses of Rainbow Smelt to Sensory Deterrent Systems. M.S. Thesis. South Dakota State University, Brookings, South Dakota.

POPULAR ARTICLES AND BOOKS

Hamel, M.J. 2018. Airboats: A vital tool for research when chasing dinosaurs. *Airboating* 12(70):8-12

ORAL PRESENTATIONS

Hamel, M.J., Q.D. Dean, and J.P. Werner. 2020. Connectivity across altered riverscapes: understanding how scale influences fish populations. American Fisheries Society national meeting - virtual

Hamel, M.J. 2020. Connectivity: Bridging the gap between research, management, and people. Invited speaker for the Oconee River Chapter of Trout Unlimited, Athens, GA

Werner, J.P., Q.D. Dean, **M.J. Hamel**, and M.A. Pegg. 2020. Variability in silver carp population demographics in the Kansas River, Kansas. Wyoming/Colorado Chapter of the American Fisheries Society, Laramie, WY

Werner, J.P., Q.D. Dean, M.J. Hamel, and M.A. Pegg. 2020. Variability in silver carp population demographics in the Kansas River, Kansas. Kansas Natural Resources Conference, American Fisheries Society, Manhattan, KS

Werner, J.P., Q.D. Dean, M.J. Hamel, and M.A. Pegg. 2020. Variability in silver carp population demographics in the Kansas River, Kansas. Nebraska Chapter of the American Fisheries Society, Lincoln, NE

Dean, Q.D., J.P. Werner, M.J. Hamel, and M.A. Pegg. 2020. Population Characteristics and Movement Patterns of Blue Catfish in the Kansas River, Kansas. Nebraska Chapter of the American Fisheries Society, Lincoln, NE

Hamel, M.J., J.J. Spurgeon, M.A. Pegg, and K.D. Steffensen. 2020. Plasticity in life-history traits: adaptations of pallid sturgeon to human perturbations. Southern Division of the American Fisheries Society, Little Rock, AK

Hamel, M.J., and M.A. Pegg. 2020. Large-river catfish fisheries: insight into catfish community dynamics across varying spatial and temporal patterns. Catfish 2020: The Third International Catfish Symposium, Little Rock, AK

Dean, Q.D., J.P. Werner, M.J. Hamel, and M.A. Pegg. 2020. Population Characteristics and Movement Patterns of Blue Catfish in the Kansas River, Kansas. Catfish 2020: The Third International Catfish Symposium, Little Rock, AK

Dean, Q.D., M.J. Hamel, and M.A. Pegg. 2020. Temporal patterns of capture, retention rates and efficacy of bank poles in the Kansas River. Catfish 2020: The Third International Catfish Symposium, Little Rock, AK

Hamel, M.J., J.P. Werner, Q.D. Dean, and M. A. Pegg. 2020. The influence of connectivity on native and invasive fish populations in the Kansas River. Georgia Chapter of the American Fisheries Society, Augusta, GA

Werner, J.P., Q.D. Dean, M.J. Hamel, and M.A. Pegg. 2019. Variability in silver carp population demographics in the Kansas River. American Fisheries Society national meeting, Reno, NV

Dean, Q.D., J.P. Werner, M.J. Hamel, and M.A. Pegg. 2019. Population Characteristics and Movement Patterns of Blue Catfish in the Kansas River, Kansas. American Fisheries Society national meeting, Reno, NV

Werner, J.P., Q.D. Dean, M.J. Hamel, and M.A. Pegg. 2019. Status of invasive carps in the Kansas River. Nebraska Rivers and Streams Technical Committee meeting. Wood River, NE

Dean, Q.D., J.P. Werner, M.J. Hamel, and M.A. Pegg. 2019. Blue catfish management in the Kansas River. Nebraska Rivers and Streams Technical Committee meeting. Wood River, NE

Hamel, M.J., J.J. Spurgeon, M.A. Pegg, and K.D. Steffensen. 2018. Linking differential life-history traits of pallid sturgeon throughout the Missouri River basin. International Conference on the Biology of Fishes, Calgary, Alberta

Hamel, M.J., J.J. Spurgeon, M.A. Pegg, and K.D. Steffensen. 2018. Linking differential life-history traits of pallid sturgeon throughout the Missouri River basin. American Fisheries Society national meeting, Atlantic City, NJ.

Hamel, M.J., J.J. Spurgeon, M.A. Pegg, and K.D. Steffensen. 2018. Diverging life history characteristics of pallid sturgeon throughout the Missouri River basin. Midwest Fish and Wildlife Conference, Lincoln, NE

Uerling, C.C., **M.J. Hamel**, M.A. Pegg. 2017. Fish community response to restored side channels on the Lower Platte River, Nebraska. Midwest Fish and Wildlife Conference, Lincoln, NE

Spurgeon, J.J., **M.J. Hamel**, and M.A. Pegg. 2017. Origin and movement patterns of channel catfish using otolith microchemistry. Midwest Fish and Wildlife Conference, Lincoln, NE

Hamel, M.J., J.J. Spurgeon, M.A. Pegg, and K.D. Steffensen. 2017. Examination of life history characteristics of pallid sturgeon throughout the Missouri River basin. Midwest Fish and Wildlife Conference, Lincoln, NE

Hamel, M.J. 2016. University of Nebraska-Lincoln Research. 2017. What we have learned and where we are going. Nebraska Rivers and Streams Technical Committee meeting. Gretna, NE

Hamel, M.J., J.J. Spurgeon, M.A. Pegg, and K.D. Steffensen. 2016. Examination of life history characteristics of pallid sturgeon throughout the Missouri River basin. American Fisheries Society annual meeting – Invited symposium speaker. Kansas City, MO

Uerling, C.C., **M.J. Hamel**, and M.A. Pegg. 2016. Monitoring a Restored Side Channel on the Lower Platte River, NE. American Fisheries Society annual meeting, Kansas City, MO

Hamel, M.J., and J.D. Koch. 2016. Age and Growth Workshop for the NE/KS AFS joint chapter meeting. Manhattan, KS

Uerling, C.C., **M.J. Hamel**, and M.A. Pegg. 2016. Monitoring a Reconnected side channel on the Lower Platte River Nebraska. Nebraska and Kansas Joint Chapter Meeting of the American Fisheries Society, Manhattan, KS

Turner, D., M. Pegg, and **M.J. Hamel**. 2016. Diet analysis of flathead catfish in the Red River of the North. Nebraska and Kansas Joint Chapter Meeting of the American Fisheries Society, Manhattan, KS

Uerling, C.C., **M.J. Hamel**, and M.A. Pegg. 2016. Monitoring fish and macroinvertebrate response to a restored side channel on the Platte River. Midwest Fish and Wildlife Conference, Grand Rapids, MI

Hamel, M.J., J.J. Spurgeon, C. Chizinski, and M.A. Pegg. 2015. Ignorance is bliss: poor aging precision from an un-validated fish aging structure has deleterious effects on understanding population dynamics. Nebraska Chapter Meeting of the American Fisheries Society, Nebraska City, NE

Hamel, M.J., J.J. Spurgeon, C.J. Chizinski, K.D. Steffensen, and M.A. Pegg. 2015. Ignorance is bliss: Poor aging precision from an un-validated fish aging structure has deleterious effects on understanding population dynamics. Missouri River Natural Resources Conference, Nebraska City, NE.

Uerling, C.C., K. Turek, M.A. Pegg, and **M.J. Hamel**. 2015. A Biological assessment of the Shell Creek watershed. Nebraska Chapter Meeting of the American Fisheries Society, Nebraska City, NE

Spurgeon, J.J., **M.J. Hamel**, and M.A. Pegg. 2015. Inter-annual variability in climate and anthropogenic stressors drive hydrological character of the Platte River, NE. Nebraska Chapter Meeting of the American Fisheries Society, Nebraska City, NE

Hamel, M.J., M.A. Pegg, R.R. Goforth, Q.E. Phelps, K.D. Steffensen, J.J. Hammen, and M.L. Rugg. 2014. Range-Wide Age and Growth Characteristics of Shovelnose Sturgeon from Mark-Recapture Data: Implications for Conservation and Management. Midwest Fish and Wildlife Conference, Kansas City, MO.

Hamel, M.J., M.A. Pegg, R.R. Goforth, Q.E. Phelps, K.D. Steffensen, J.J. Hammen, and M.L. Rugg. 2014. Using Mark-Recapture to Determine Population Dynamics of *Scaphirhynchus* Sturgeon: Implications for Pallid Sturgeon Recovery. Missouri River Natural Resources Conference, Nebraska City, NE.

Hogberg, N.P., **M.J. Hamel**, and M.A. Pegg. 2014. Channel catfish first-year growth in relation to environmental conditions in the Missouri River, Nebraska. Joint Meeting of the Nebraska and Iowa Chapters of the American Fisheries Society. Council Bluffs, IA.

Hogberg, N.P., **M.J. Hamel**, and M.A. Pegg. 2014. Long Term Trends in Age-0 Channel Catfish Growth in the Channelized Missouri River, Nebraska. 74th Annual Midwest Fish and Wildlife Conference. Kansas City, MO.

Hamel, M.J., J.J. Hammen, M.L. Rugg, and M.A. Pegg. 2013. Hydrologic Variability Influences Distribution and Occurrence of Pallid Sturgeon in the Lower Platte River. The Missouri River Natural Resources Conference, Jefferson City, MO.

Rugg, M., **M.J. Hamel**, J.J. Hammen, and M.A. Pegg. 2013. Reproductive potential of shovelnose sturgeon in the Lower Platte River, Nebraska. The Missouri River Natural Resources Conference, Jefferson City, MO.

Rugg, M., **M.J. Hamel**, J.J. Hammen, and M.A. Pegg. 2013. Reproductive potential of shovelnose sturgeon in the Lower Platte River, Nebraska. NE Chapter of the American Fisheries Society, Gretna, NE.

Hamel, M.J., J.J. Hammen, M.L. Rugg, and M.A. Pegg. 2013. Hydrologic Variability Influences Distribution and Occurrence of Pallid Sturgeon in the Lower Platte River. NE Chapter of the American Fisheries Society, Gretna, NE.

Hamel, M.J., J.J. Hammen, and M.A. Pegg. 2012. Sturgeon growth characteristics: The good, the bad, and the ugly. NE Chapter of the American Fisheries Society, Gretna, NE.

Hammen, J.J., **M.J. Hamel**, and M.A. Pegg. 2012. Geomorphology and instream habitat associations of shovelnose sturgeon in the lower Platte River, NE. NE Chapter of the American Fisheries Society, Gretna, NE.

Hamel, M.J., J.J. Hammen, and M.A. Pegg. 2012. Sensitivity of using fin rays for shovelnose sturgeon age, growth, and dynamic rate functions. American Fisheries Society national meeting, St. Paul, MN.

Hamel, M.J., K.D. Steffensen, J.J. Hammen, and M.A. Pegg. 2012. Evaluation of two tagging locations for injection of PIT tags in pallid sturgeon. Missouri River Natural Resources Conference, Pierre, SD.

Goto, D., **M.J. Hamel**, J.L. Hammen, M.L. Rugg, M.A. Pegg, and V. Forbes. Spatially Explicit Hydrological Influences on Individual Variation in Shovelnose Sturgeon Reproduction and Recruitment in a Regulated River. American Fisheries Society national meeting, St. Paul, MN.

Hamel, M.J., M.A. Pegg, and J.J. Hammen. 2011. Tag retention of T-bar anchor tags and PIT tags in shovelnose sturgeon. American Fisheries Society national meeting, Seattle, WA.

Hammen, J.L., **M.J. Hamel**, and M.A. Pegg. 2011. Seasonal distributions, characteristics, and population dynamics of shovelnose sturgeon in the Lower Platte River, NE. American Fisheries Society national meeting, Seattle, WA.

Hamel, M.J., M.A. Pegg, and J.J. Hammen. 2011. Tag retention of T-bar anchor tags and PIT tags in shovelnose sturgeon. Missouri River Natural Resources Committee meeting, Nebraska City, NE.

Hamel, M.J., M.A. Pegg, and J.J. Hammen. 2011. Tag retention of T-bar anchor tags and PIT tags in shovelnose sturgeon. NE chapter of the American Fisheries Society, Gretna, NE.

Hammen, J.J., **M.J. Hamel**, and M.A. Pegg. 2011. Shovelnose sturgeon movements within the lower Platte River, NE. NE chapter of the American Fisheries Society, Gretna, NE.

Hamel, M.J., M.A. Pegg, J.J. Hammen, and T.L. Anderson. 2010. Population characteristics of pallid sturgeon in the lower Platte River, Nebraska. NE chapter of the American Fisheries Society, Ponca, NE.

Hammen, J.L., **M.J. Hamel**, T.L. Anderson, and M.A. Pegg. 2010. Population dynamics of shovelnose sturgeon in the Lower Platte River, Nebraska. NE chapter of the American Fisheries Society, Ponca, NE.

Anderson, T.L., **M.J. Hamel**, and M.A. Pegg. 2010. Age and growth of shovelnose sturgeon in the lower Platte River, Nebraska. NE chapter of the American Fisheries Society, Ponca, NE.

Hamel, M.J., M.A. Pegg, J.J. Hammen, and T.L. Anderson. 2010. Population characteristics of pallid sturgeon in the lower Platte River, Nebraska. Missouri River Natural Resources Committee meeting, Nebraska City, NE.

Hammen, J.J., **M.J. Hamel**, and M.A. Pegg. Shovelnose sturgeon movements within the lower Platte River, NE. Midwest Fish and Wildlife Conference, Minneapolis, Minnesota.

Anderson, T.L., **M.J. Hamel**, J.J. Hammen, and M.A. Pegg. 2010. Shovelnose sturgeon, *Scaphirhynchus platyrhynchus* in the Lower Platte River. Thesis Defense.

Hammen, J.J., **M.J. Hamel**, T.L. Anderson, and M.A. Pegg. 2010. Shovelnose sturgeon population dynamics and seasonal population characteristics in the Lower Platte River. Missouri River Natural Resources Conference, Nebraska City, Nebraska.

Hamel, M.J., M.A. Pegg, J.J. Hammen, and T.L. Anderson. 2010. Sturgeon management in the lower Platte River, Nebraska. Platte River Symposium – University of Nebraska-Lincoln, Lincoln, NE

Hamel, M.J., M.A. Pegg, J.J. Hammen, and T.L. Anderson. 2009. Population characteristics of pallid sturgeon in the lower Platte River. Platte River Symposium – University of Nebraska-Lincoln, Lincoln, NE

Hamel, M.J., M.A. Pegg, J.J. Hammen, and T.L. Anderson. 2009. Population characteristics of pallid sturgeon in the lower Platte River, Nebraska. Midwest Fish and Wildlife Conference, Springfield, IL.

Hammen, J.L. **M.J. Hamel**, T.L. Anderson, and M.A. Pegg. 2009. Shovelnose sturgeon population dynamics and seasonal population characteristics in the Lower Platte River, Nebraska. Midwest Fish and Wildlife Conference, Springfield, IL.

Hamel, M.J., and K.D. Steffensen. 2008. Age and growth of shovelnose sturgeon in the Missouri River. American Fisheries Society national meeting, Ottawa, Ontario.

Hamel, M.J., and K.D. Steffensen. 2008. Influence of mesh size and trawling techniques on catch of benthic fish species of the Missouri River. NE chapter of the American Fisheries Society, Gretna, NE

Hamel, M.J., K.D. Steffensen, P. Horner, and S. Stukel. 2008. Influence of mesh size and trawling techniques on catch of benthic fish species of the Missouri River. Missouri River Natural Resources Conference (MRNRC) & BiOp Forum, Nebraska City, NE

Hamel, M.J., and K.D. Steffensen. 2007. Influence of mesh size and trawling techniques on catch of benthic fish species of the Missouri River. Midwest Fish and Wildlife Conference, Madison, WI.

Hamel, M.J., M.L. Brown, and S.R. Chipps. 2007. Use of hydroacoustics to assess free-ranging rainbow smelt responses to sensory deterrents. Midwest Fish and Wildlife Conference, Madison, WI – Invited symposium speaker.

Hamel, M.J., D.W. Everitt, and J.D. Haas. 2007. Intensive and extensive tracking of pallid and shovelnose sturgeon movements in the middle Missouri River. MRNRC & BiOp Forum, Nebraska City, NE

Hamel, M.J., D.W. Everitt, and J.D. Haas. 2007. Intensive and extensive tracking of pallid and shovelnose sturgeon movements in the middle Missouri River. AFS Tri-State (Nebraska, Kansas, and Iowa) Chapter Annual Meeting, Council Bluffs, IA.

Hamel, M.J., M.L. Brown, and S.R. Chipps. 2006. Behavioral Responses of Rainbow Smelt to Sensory Deterrence Systems. Midwest Fish and Wildlife Conference, Omaha, NE.

Hamel, M.J., N.S. Richards, M.L. Brown, and S.R. Chipps. 2006. Rainbow Smelt Responses to Sensory Deterrence Systems. AFS Dakota Chapter Annual Meeting, Chamberlain, SD.

Hamel, M.J., and N.S. Richards. 2005. Influence of Underwater Sound and Strobe Lights on Deterrence Behavior of Rainbow Smelt in Lake Oahe, South Dakota. SDGFP Annual Winter Fisheries Meeting. Yankton, SD.

INVITED PRESENTATIONS/SEMINARS

Hamel, M.J., Q.D. Dean, and J.P. Werner. 2020. Connectivity across altered riverscapes: understanding how scale influences fish populations. Invited speaker to the American Fisheries Society annual virtual conference to be presented in the symposium entitled, “Confronting present and emerging stressors in rivers for global fisheries conservation.”

Hamel, M.J. 2020. Connectivity: Bridging the gap between research, management, and people. Invited speaker for the Oconee River Chapter of Trout Unlimited, Athens, GA

Hamel, M.J. 2019. Plasticity in life history traits in a long-lived sturgeon. Invited presentation to the American Fisheries Society student sub-unit of the University of Georgia. Athens, GA, October 2019.

Hamel, M.J. 2018. Connectivity – Bridging the gap between research, management, and people. Invited seminar presented to the University of Wisconsin-LaCrosse. LaCrosse, WI, November 2018

Hamel, M.J. 2018. How do we assess fishes in rivers and streams? Invited seminar presented to the University of Nebraska-Kearney, November 2018.

Hamel, M.J. 2018. Connectivity – Bridging the gap between research, management, and people. Invited seminar presented to the University of Illinois Champaign-Urbana, Champaign, IL, October 2018

Hamel, M.J., J.J. Spurgeon, M.A. Pegg, and K.D. Steffensen. 2018. Linking differential life-history traits of pallid sturgeon throughout the Missouri River basin. Invited presentation to the International Conference on the Biology of Fishes, Calgary, Alberta 2018

Hamel, M.J., M.A. Pegg, J.J. Hammen, and T.L. Anderson. 2010. Population characteristics of pallid sturgeon in the lower Platte River, Nebraska. Invited presentation to the Nebraska Game and Parks Commission, Lincoln, NE, January 2010

Hamel, M.J., M.A. Pegg, J.J. Hammen, and T.L. Anderson. 2009. Population characteristics of pallid sturgeon in the lower Platte River, Nebraska. Invited presentation to the Nebraska Game and Parks Commission, Lincoln, NE, January 2009

Hamel, M.J., M.L. Brown, and S.R. Chipps. 2006. Behavioral Responses of Rainbow Smelt to Sensory Deterrence Systems. Invited presentation to the Midwest Fish and Wildlife Conference, Omaha, NE.

WORKSHOPS

Fish age and growth considerations and procedures. Presented as part of the continuing education program for the 2016 joint conference between the Nebraska and Kansas chapters of the American Fisheries Society, Manhattan, KS, 2016.

ACADEMIC EXPERIENCE

Courses taught:

Fisheries Management/Lab (FISH 5360/7360 & FISH 5360L/7360L) – Fall 2019 & 2020 (3 hr)
Oh My Cod: Information and Strategies for Pursuing a Successful Career (FYOS 1001) – Spring & Fall 2020 (1 hr)
Fisheries Problems: How to Develop a Scientific Review Paper (FISH 7980) – Spring 2020 (3 hr)
Senior Project in Forestry and Natural Resources Management – Spring 2020 (1 hr)
Ichthyology (NRES 489/889) – Spring 2019 (3 hr)
Stream Ecology (NRES 481/881) – Fall 2015 (3 hr)
Exploring Fisheries Opportunities and Research; Co-Instructor with Dr. Mark Pegg (NRES 163) – Annually 2013-2019 (1 hr)

Guest lectures:

Environmental Biology of Fishes: University of Georgia – Spring 2020
Freshwater Management Techniques: University of Nebraska-Kearney (Invited, 11/2018)
Fisheries Science (NRES 463/863): Annual guest lectures (2013-2018)
Ichthyology (NRES 489/889): Annual guest lectures (2013-2018)
Topics in Applied Ecology (NRES 801): Fall 2017

Graduate students supervised:

Joel Yeager, University of Georgia – M.S. (anticipated 2021)
Jackson Glomb, University of Georgia – M.S. (anticipated 2021)
Mark D'Ercole (co-advised with Dr. Fox), University of Georgia – M.S. (anticipated 2022)
Jacob Werner, University of Nebraska-Lincoln – M.S. (2020)
(Presently employed by the University of Nebraska)
Quintin Dean, University of Nebraska-Lincoln – M.S. (2020)
(Presently employed by the Texas Parks and Wildlife Department)
Caleb Uerling, University of Nebraska-Lincoln - M.S (2018)

(Presently employed by Montana Game, Fish, and Parks)

Graduate student committee member:

Lauren Carroll, University of Georgia – M.S. (anticipated 2022)
Kieran Merritt, University of Georgia – M.S. (anticipated 2022)
Zach Horstman, University of Nebraska-Lincoln – M.S. (2020)
Henry Hansen, University of Nebraska-Lincoln – M.S. (2019)
Dylan Turner, University of Nebraska-Lincoln – M.S. (2018)
Stephen Siddons, University of Nebraska-Lincoln – M.S. (2016)

Undergraduate Senior/Honors Thesis Advisor:

Brandon Filaski, University of Georgia (anticipated 2021)
Kaitlyn Elder, University of Nebraska-Lincoln (2019)

ACADEMIC SERVICE

2020-present Graduate Affairs Committee for the Warnell School of Forestry and Natural Resources - UGA
2020-present Curriculum Committee for the Warnell School of Forestry and Natural Resources - UGA
2020-present Administrative Committee for the Warnell School of Forestry and Natural Resources - UGA
2015-2019 Community Engagement Committee for the UNL School of Natural Resources
2015-2019 Safety and Facilities Committee for the UNL School of Natural Resources
2012-2013 Staff Advisory Professional Development Committee for the UNL School of Natural Resources
2012-2013 Staff and Professional/Managerial Committee for the UNL School of Natural Resources

CONTINUING EDUCATION, JOB-RELATED TRAINING COURSES, AND AWARDS

Teaching Academy Fellows Program, University of Georgia (2020)
Creating a Sustainable Writing Practice, University of Georgia (Fall 2020)
Faculty Search Committee Training, University of Georgia (11/16/2020)
Promotion and Tenure Dossier Preparation Workshop, University of Georgia (5/19/2020 & 12/17/2020)
Active Learning workshop, University of Georgia, Athens, GA (11/2019)
Leadership workshop, Midwest Fish and Wildlife Conference, Lincoln, NE (02/2017)
Leadership workshop, *Becoming an EPIIC Leader*, by Marquita Qualls - Entropia Consulting (10/2016)
Mentoring workshop, *Enhancing Productivity and Professional Relationships*, UNL, (09/2016)
Leadership workshop, Midwest Fish and Wildlife Conference, Grand Rapids, MI (02/2016)
Personal Income Taxation, CYAF 840, University of Nebraska-Lincoln, Spring semester 2017
Principles of Risk Management, CYAF 824, University of Nebraska-Lincoln, Spring semester 2016
Foundations in Financial Planning CYAF 821, University of Nebraska-Lincoln, Spring semester 2016
Investing for the Family's Future, CYAF 883, University of Nebraska-Lincoln, Summer semester 2016
Estate Planning, CYAF 823, University of Nebraska-Lincoln, Fall semester 2016

Awards:

2018 – Institute of Agriculture and Natural Resources Travel Award, University of Nebraska.
2018 – Early Career Professional's Travel Award, Education Section of the American Fisheries Society
2016 – Institute of Agriculture and Natural Resources Travel Award, University of Nebraska.

- 2016 - Award of Merit – Fish Management Section of the American Fisheries Society. Awarded for significant achievement and contribution to fisheries science.
- 2015 – Service Award – Nebraska Chapter of the American Fisheries Society. Awarded for recognition of personal contributions to the achievement and enhancement of fisheries science.
- 2011 – Best Oral Presentation – Nebraska Chapter of the American Fisheries Society. Awarded for the presentation entitled, “Tag retention of t-bar anchor tags and PIT tags in shovelnose sturgeon.”
- 2007 – Best Professional Poster Presentation Award. Missouri River Natural Resource Conference

PROFESSIONAL SERVICE

- 2020: Associate Editor, Special Issue: Catfish 2020 – the 3rd International Catfish Symposium in *North American Journal of Fisheries Management*
- 2020: Symposium Coordinator, Southern Division of the American Fisheries Society
- 2020: Session Moderator, Southern Division of the American Fisheries Society
- 2020: Standing declaration for the litigation of Center of Biological Diversity vs. US Army Corps of Engineers
- 2020: Standing declaration for the litigation of Center of Biological Diversity vs. US Environmental Protection Agency
- 2016-present: Secretary/Treasurer, American Fisheries Society, Education Section
- 2004-present: Member, American Fisheries Society
- 2020-present: Member, North American Sturgeon and Paddlefish Society
- 2007-2019: Member, Nebraska Chapter of the American Fisheries Society
- 2015-2018: Member, Communications Strategic Planning Committee, American Fisheries Society
- 2014-2018: Member, Awards Committee for the North Central Division of the American Fisheries Society
- 2017: Session Moderator, Midwest Fish and Wildlife Conference, Lincoln, NE
- 2015-2016: President, Nebraska Chapter of the American Fisheries Society
- 2011-2014: Member, Iowa Chapter of the American Fisheries Society

Manuscript Reviews:

North American Journal of Fisheries Management, Transactions of the American Fisheries Society, Canadian Journal of Fisheries and Aquatic Sciences, Environmental Biology of Fishes, Journal of Applied Ichthyology, Fisheries Management and Ecology, River Research and Applications

TECHNICAL REPORTS

Hamel, M.J., and M.A. Pegg. 2019. Riverine Sportfish Ecology and Management. Project completion report (No. F-75-R) to Nebraska Game and Parks Commission, Lincoln, NE

Hamel, M.J., and M.A. Pegg. 2018. Sturgeon Management in the Platte River, Nebraska: Implications to a Declining Sportfish Population. Project completion report to Nebraska Game and Parks Commission, Lincoln, NE

Hamel, M.J., and M.A. Pegg. 2018. Sturgeon Management in the Platte River, Nebraska. Annual Performance Review, U.S. Fish and Wildlife Service, Endangered Species Permitting – Denver, CO.

Hamel, M.J., and M.A. Pegg. 2017. Sturgeon Management in the Platte River, Nebraska: Implications to a Declining Sportfish Population. Annual Performance Report to Nebraska Game and Parks Commission, Lincoln, NE

Hamel, M.J., and M.A. Pegg. 2017. Sturgeon Management in the Platte River, Nebraska. Annual Performance Review, U.S. Fish and Wildlife Service, Endangered Species Permitting – Denver, CO.

Hamel, M.J., and M.A. Pegg. 2016. Sturgeon Management in the Platte River, Nebraska: Implications to a Declining Sportfish Population. Annual Performance Report to Nebraska Game and Parks Commission, Lincoln, NE

Hamel, M.J., and M.A. Pegg. 2016. Sturgeon Management in the Platte River, Nebraska. Annual Performance Review, U.S. Fish and Wildlife Service, Endangered Species Permitting – Denver, CO.

Hamel, M.J., and M.A. Pegg. 2015. Sturgeon Management in the Platte River, Nebraska: Implications to a Declining Sportfish Population. Annual Performance Report Nebraska Game and Parks Commission, Lincoln, NE

Hamel, M.J., and M.A. Pegg. 2015. Sturgeon Management in the Platte River, Nebraska. Annual Performance Review, U.S. Fish and Wildlife Service, Endangered Species Permitting – Denver, CO.

Hamel, M.J., and M.A. Pegg. 2014. Sturgeon Management in the Platte River, Nebraska: Implications to a Declining Sportfish Population. Annual Performance Report to Nebraska Game and Parks Commission, Lincoln, NE

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Hamel, M.J. and M.A. Pegg. 2012. Sturgeon Management in the Platte River, Nebraska. Annual Performance Report. Nebraska Game and Parks Commission, Lincoln, NE.

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