

DANA M. INFANTE

Department of Fisheries and Wildlife
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<https://www.msu.edu/~infanted/index.html>

PROFESSIONAL POSITIONS – MICHIGAN STATE UNIVERSITY

Interim Director. Institute of Water Research, College of Agriculture and Natural Resources. 2020 to present.

Professor. Department of Fisheries and Wildlife. 2020 to present, Partnership for Ecosystem Research and Management (PERM) Faculty Member, Michigan Department of Natural Resources, Fisheries Division*.

Assistant Director. AgBioResearch, College of Agriculture and Natural Resources. 2019 to present.

Associate Chair of Research. Department of Fisheries and Wildlife. 2018 to 2019.

Associate Professor. Department of Fisheries and Wildlife. 2013 to 2020, Partnership for Ecosystem Research and Management (PERM) Faculty Member, Michigan Department of Natural Resources, Fisheries Division*.

Assistant Professor. Department of Fisheries and Wildlife. 2007 to 2013, Partnership for Ecosystem Research and Management (PERM) Faculty Member, Michigan Department of Natural Resources, Fisheries Division*.

EDUCATION

Doctor of Philosophy. 2005. Resource Ecology and Management, School of Natural Resources and Environment, University of Michigan, Ann Arbor, Michigan

Master of Science. 2001. Resource Ecology and Management, School of Natural Resources and Environment, University of Michigan. University of Michigan, Ann Arbor, Michigan

Bachelor of Science. 1994. Scientific Writing, College of Literature, Science, and Arts, University of Michigan, Ann Arbor, Michigan

AWARDS

Leadership Development Program, College of Agriculture and Natural Resources, 2019-2020. Applied and selected to participate.

Lead21 Class 13 Leadership Training Program, 2017-2018. Invited to participate by Michigan State University College of Agriculture and Natural Resources; selected to participate from a national applicant pool.

Nominated for but not selected for the **2017 Graduate School Outstanding Faculty Mentor Award.** From Michigan State University.

2013 Outstanding Supervisor Award. From Family Resource Center of Michigan State University.

2012 Group Achievement Award for National Fish Habitat Assessment Work. From the American Institute of Fishery Research Biologists.

Eli Lilly Teaching Fellowship, 2010-2011. Invited to participate by Department of Fisheries and Wildlife; selected from a university-wide applicant pool. From Michigan State University.

Scientific Achievement in Support of Fish Habitat Conservation, 2011. From National Fish Habitat Action Plan Board (board membership from natural resource management agencies and conservation organizations).

* http://www.fw.msu.edu/partners_outreach/partnership_for_ecosystem_research_and_management_perm

INVITED INTERNATIONAL ENGAGEMENT

This section highlights invited, international efforts; items appear in other sections of this CV.

Presentations

- (8) **Infante, D. M. Invited.** 2019. Assessing the contribution of protected landscapes for conserving river fishes across the USA. International Society for River Science, September 8-13, 2019, Vienna, Austria.
- (7) **Infante, D. M. Invited.** 2019. FishTail: Assessing condition of stream fish habitat throughout the Mississippi River Basin, USA. International Society for River Science, September 8-13, 2019, Vienna, Austria.
- (6) **Infante, D. M. Invited.** 2018. Assessing river fish habitats throughout the United States: Outcomes and opportunities for conserving fishes from current and future threats. 4th Mississippi-Yangtze River Basins Symposium, October 15-20, 2018, Chongqing, China.
- (5) **Infante, D. M. Invited.** 2018. Conserving stream fishes throughout large regions: Using multiple species distribution models to enhance decision-making. Seminar for the Institute of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Life Sciences, June 6, 2018, Vienna, Austria.
- (4) **Infante, D. M. Invited.** 2015. Landscape influences on stream fish assemblages: Focus on a national assessment of fish habitats for the National Fish Habitat Partnership. Seminar for the Institute of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Life Sciences, May 13, 2015, Vienna, Austria.
- (3) **Infante, D. M. Invited.** 2015. Assessing condition of freshwater habitats using a landscape approach: Improving opportunities for conserving inland fisheries over large regions. Global Conference on Inland Fisheries, January 26-28, 2015, FAO Headquarters, Rome, Italy.
- (2) **Infante, D. M. Invited.** 2012. Impacts of current anthropogenic land uses on river fish across the conterminous United States: Implications for conservation and management. 6th World Fisheries Congress, May 7-11, 2012, Edinburgh, Scotland.
- (1) **Infante, D. M. Invited.** 2011. Managing river systems with a landscape approach: Improving the odds for conserving Arctic grayling. Arctic Grayling Symposium & Workshop 2011: Our Conservation Challenges and Opportunities, June 7-9, 2011, Grand Prairie, Alberta, Canada.

Course Instruction

Characterizing landscape influences on stream fish assemblages: Implications for large-scale assessment of stream habitats, 2 credit, seminar. Taught Spring of 2015 as a Guest Professor, University of Natural Resources and Life Sciences, Vienna, Austria.

Mentorship

Melanie Haslauer, doctoral student, University of Natural Resources and Life Sciences, Vienna, Austria, PhD committee member 2018-present.
Marlene Ublacker, Institute for Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Life Sciences, Vienna, Austria, MS committee member 2017-2019.
Rafaela Schinegger, Fulbright Scholar (Austria), postdoctoral mentor in 2015.

External dissertation examiner

Edward Krynak, Western University, Ontario, Canada. Defended Fall 2018.
Gabriel Brejao, University of Campinas, Sao Paulo, Brazil. Defended Spring 2018.
Jaqueline De Oliveira Zeni, Sao Paulo State University, Sao Paulo, Brazil. Defended Spring 2017.

Symposium co-organizer

Ecological and social landscape-scale drivers of freshwater biodiversity: Novel findings and future challenges. Annual Meeting of the International Society for River Science, September 8-13, 2019, Vienna, Austria.

PRESS AND MEDIA OUTPUT

- Radio interview, “How will climate change impact the Great Lakes?” September 17, 2019, Worldview, WBEZ Chicago, J. McDonnell.
- Quoted in “Scientists: Climate change could prompt a rebound – and problems – in Great Lakes region.” July 11, 2019, The Buffalo News, J. Zremski.
- Quoted in “Scientists defend headwater protections.” May 30, 2019. canr.msu.edu, S. Nichols.
- Video produced for Carlson, A. K., et al. 2019. Threats to freshwater fisheries in the United States: Perspectives of state fisheries administrators and Agricultural Experiment Station directors. Fisheries 44:276-287. Link: <https://vimeo.com/332321793>
- Video produced for Colvin et al. 2019. Headwater streams and wetlands are critical for sustaining fish, fisheries, and ecosystem services. Fisheries 44:73-91. Link: <https://vimeo.com/334695877>
- Quoted in “Great Lakes warming faster than rest of nation.” March 21, 2019, Detroit Free Press, K. Matheny. Story picked up by other news sources, including Lansing State Journal, Detroit News, and other regional news sources.
- Press release, “To build up mussels, you need to know your fish.” February 26, 2018, <http://csis.msu.edu/news/build-mussels-you-need-know-your-fish>, S. Nichols.
- Press release, “Fish should figure in to fate of nation’s aging dams.” May 10, 2017, <http://csis.msu.edu/news/fish-fate-dams>, S. Nichols.
- Press release, “MSU scientist leads assessment of country’s inland stream fish habitats.” November 28, 2016, <http://csis.msu.edu/news/msu-scientist-leads-assessment-country%E2%80%99s-inland-stream-fish-habitats>
- Project coverage, “CROSSFISH: Human impacts on fish assemblages in European and North American rivers.” December 21, 2015, The Freshwater Blog. <https://freshwaterblog.net/2015/12/21/crossfish-human-impacts-on-fish-assemblages-in-european-and-north-american-rivers/>, S. Nichols.
- Interview, “Mining can damage fish habitats.” December 12, 2014, Canadian Institute of Mining.
- Radio interview, “Mining can damage fish habitats.” December 1, 2014, Living on Earth, Public Radio International, L. Hinkel.
- Press release, “Mining can damage fish habitats far downstream, study shows.” November 25, 2014. <http://csis.msu.edu/news/mining-damage-fish-habitats>, S. Nichols.
- Quoted in “Predators and warm water could stymie arctic grayling revival in Michigan.” October 25, 2011, Great Lakes Echo, J. Brooks Gillies and A. McGlashen.

PEER-REVIEWED JOURNAL ARTICLES

Graduate students for whom I am primary advisor are underlined.

Post-doctoral research associates from whom I am primary advisor are italicized.

Research technicians^ whom I supervise are noted by ^.

Accepted or published

- (50) Carlson, A. K., W. W. Taylor, D. R. DeVries, C. Paola Ferreri, M. J. Fogarty, K. J. Hartman, D. M. Infante, M. T. Kinnison, S. A. Levin, R. T. Melstrom, R. M. Newman, M. L. Pinsky, D. I. Rubenstein, S. M. P. Sullivan, P. A. Venturelli, M. J. Weber, M. R. Wuellner, and G. B. Zydlewski. Accepted. Stepping up: A U.S. perspective of the ten steps to responsible inland fisheries. Fisheries.
- (49) Cooke, S. J., E. Nyboer, A. Bennett, A. J. Lynch, **D. M. Infante**, I. G. Cowx, T. D. Beard, Jr., D. Bartley, C. P. Paukert, A. J. Reid, S. Funge-Smith, E. Gondwe, E. Kaunda, J. D. Koehn, N. J. Souter, G. L. Stokes, L. Castello, N. J. Leonard, C. Skov, S. Berg, and W. W. Taylor. 2021. The ten steps to responsible Inland fisheries in practice: Reflections from diverse regional case studies around the globe. Reviews in Fish Biology and Fisheries 31:843-877. DOI: 10.1007/s11160-021-09664-w.
- (48) Xiong, F., J. Olden, Y. Lu, H. Liu, X. Qu, W. Xia, C. Guo, X. Wu, **D. M. Infante**, L. Wang, and Y. Chen. 2021. Riparian land use and in-channel stressors drive fish community structure in the Yangtze River. Landscape Ecology. DOI: 10.1007/s10980-021-01278-8.

- (47) Cooper[^], A. R., **D. M. Infante**, J. R. O'Hanley, H. Yu, T. M. Neeson, and K. J. Brumm. 2021. Science of the Total Environment. DOI: 10.1016/j.scitotenv.2021.148317.
- (46) Hein, T., **D. M. Infante**, R. Schinegger, J. Schoelynck, and G. Weigelhofer. 2021. Editorial: Challenges and innovative solutions in river sciences. *Frontiers in Environmental Science*. DOI: 10.3389/fenvs.2021.655473
- (45) *Tsang, Y. P.*, **D. M. Infante**, L. Wang, D. Krueger, and D. Wieferrich[^]. 2021. Conserving freshwater fishes with changing climate: An approach for assessing stream fish responses to climate-induced habitat changes over a large region. *Science of the Total Environment* 755:14253. DOI: 10.1016/j.scitotenv.2020.142503
- (44) Frauendorf, T. C., R. A. MacKenzie, R. W. Tingley III, **D. M. Infante**, and R. W. El-Savaawi. 2020. Using a space-for-time substitution approach to predict the effects of climate change on nutrient cycling in tropical island stream ecosystems. *Limnology and Oceanography* 2020:1-14. DOI: 10.1002/lno.11577
- (43) King, K., M. Bremigan, **D. M. Infante**, and K. Spence Cheruvellil. Surface water connectivity affects lake and stream fish species richness and composition. 2020. *Canadian Journal of Fisheries and Aquatic Sciences*. DOI: 10.1139/cjfas-2020-0090
- (42) *Yu, H.*, A. Cooper[^], and **D. M. Infante**. 2020. Improving species distribution model predictive accuracy using species abundance: Application with boosted regression trees. *Ecological Modeling* 432:109202. DOI: 10.1016/j.ecolmodel.2020.109202
- (41) Carlson A., W. W. Taylor, and **D. M. Infante**. 2020. Modeling effects of climate change on Michigan brown trout and rainbow trout: Precipitation and groundwater as key predictors. *Ecology of Freshwater Fish* 29:433-449. DOI: 10.1111/eff.12525
- (40) *Tsang, Y. P.*, R. W. Tingley, J. Hsiao, and **D. M. Infante**. 2019. Identifying high value areas for conservation: Accounting for connections among terrestrial, freshwater, and marine habitats in a tropical island system. *Journal for Nature Conservation* 50:125711. DOI: 10.1016/j.jnc.2019.125711
- (39) Pracheil, B. M., R. McManamay, E. S. Parish, S. L. Curd, B. T. Smith, C. R. DeRolph, A. M. Witt, S. Ames, M. B. Day, W. Graf, **D. M. Infante**, D. McCoskey, K. Rugani, C. Vezina, T. Welch, A. West. 2019. A checklist of river function indicators for hydropower ecological assessment. *Science of the Total Environment* 687:1245-1260. DOI: 10.1016/j.scitotenv.2019.06.049
- (38) Carlson, A., W. W. Taylor, and **D. M. Infante**. 2019. Developing precipitation- and groundwater-corrected stream temperature models to improve management of brook charr amid climate change. *Hydrobiologia* 840:379-398. DOI: 10.1007/s10750-019-03989-1
- (37) Carlson, A. K., W. W. Taylor, M. T. Kinnison, S. Mažeika, P. Sullivan, M. J. Weber, R. T. Melstrom, P. A. Venturelli, M. R. Wuellner, R. M. Newman, K. J. Hartman, G. B. Zydlewski, D. R. DeVries, S. M. Gray, **D. M. Infante**, M. A. Pegg, and R. M. Harrell. 2019. Threats to freshwater fisheries in the United States: Perspectives of state fisheries administrators and Agricultural Experiment Station directors. *Fisheries* 44:276-287. DOI: 10.1002/fsh.10238
- (36) Clilverd, H. M., Y. P. Tsang, **D. M. Infante**, A. J. Lynch, A. M. Strauch. 2019. Long-term streamflow trends in Hawai'i and implications for native stream fauna. *Hydrological Processes*. *Hydrological Processes* 33:1-21. DOI: 10.1002/hyp.13356
- (35) Colvin, S. A. R., S. M. P. Sullivan, P. D. Shirey, R. W. Colvin, K. O. Winemiller R. M. Hughes, K. D. Fausch, **D. M. Infante**, J. Olden, K. R. Bestgen, R. J. Danehy, L. Eby. 2019. Headwater streams and wetlands are critical for sustaining fish, fisheries, and ecosystem services. *Fisheries* 44:73-91. DOI: 10.1002/fsh.10229
- (34) Cooper, A. R.[^], *Y. P. Tsang*, **D. M. Infante**, *W. M. Daniel*, A. J. McKerrow, and D. Wieferrich. 2019. Protected areas lacking for many common fluvial fishes of the conterminous USA. *Diversity and Distributions* 2019:1-15. DOI: 10.1111/ddi.12937
- (33) Ross, J. A., **D. M. Infante**, D. J. Martin, and M. Rey. 2019. Effects of riparian timber harvest on southeast Alaska stream habitat after 30-40 years: Insights for management. *North American Journal of Fisheries Management* 39:328-342. DOI: 10.1002/nafm.10270
- (32) *Daniel, W. M.*, A. R. Cooper[^], P. J. Badra, and **D. M. Infante**. 2018. Predicting habitat suitability for eleven imperiled fluvial freshwater mussels. *Hydrobiologia* 809:265-283. DOI: 10.1007/s10750-017-3473-z

- (31) Stevenson, R. J., T. Tang, and **D. M. Infante**. 2018. Advancing evaluation of bioassessment methods: A reply to Liu and Cao. *Science of the Total Environment* 645:895-500. DOI: 10.1016/j.scitotenv.2018.07.129
- (30) Tingley, R. W., **D. M. Infante**, R. A. MacKenzie, A. R. Cooper[^], and *Y. P. Tsang*. 2018. Identifying natural catchment landscape influences on tropical stream organisms: Classifying stream reaches of the Hawaiian Islands. *Hydrobiologia* 826:67-83. DOI: 10.1007/s10750-018-3726-5
- (29) Carlson, A. K., W. W. Taylor, K. M. Hartikainen, **D. M. Infante**, T. D. Beard, and A. J. Lynch. 2017. Comparing stream-specific to generalized temperature models to guide salmonid management in a changing climate. *Reviews in Fish Biology and Fisheries* 27:443-462. DOI: 10.1007/s11160-017-9467-0
- (28) Carlson A. K., W. W. Taylor, K. M. Schlee, T. G. Zorn, and **D. M. Infante**. 2017. Projected impacts of climate change on stream salmonids with implications for resilience-based management. *Ecology of Freshwater Fish* 26:190-204. DOI: 10.1111/eff.12267
- (27) Cooper, A. R., **D. M. Infante**, L. Wang, K. Wehrly, and T. Brenden. 2017. Assessment of dam effects on streams and fish assemblages of the conterminous USA. *Science of the Total Environment* 586:879-889. DOI: 10.1016/j.scitotenv.2017.02.067
- (26) *Fetzer, W. W.*, B. M. Roth, **D. M. Infante**, D. F. Clapp, R. M. Claramunt, D. G. Fielder, J. He, T. J. Newcomb, T. G. Zorn. 2017. Spatial and temporal dynamics of nearshore fish communities in Lake Michigan and Lake Huron. *Journal of Great Lakes Research* 43:319-334. DOI: 10.1016/j.jglr.2016.12.003
- (25) Foley, M. M., F. J. Magilligan, C. E. Torgersen, J. J. Major, C. W. Anderson, P. J. Connolly, D. Wierich, P. B. Shafroth, J. E. Evans, **D. M. Infante**, and L. S. Craig. 2017. Landscape context and the biophysical response of rivers to dam removal in the United States. *PLoS One* 12:e0180107. DOI: 10.1371/journal.pone.0180107
- (24) Paukert, C. P., A. J. Lynch, T. D. Beard, Y. Chen, S. J. Cooke, M. S. Cooperman, I. Cowx, L. Ibengwe, **D. M. Infante**, B. J. E. Myers, N. P. Hoa, and I. J. Winfield. 2017. Designing a global assessment of climate change on inland fish and fisheries: knowns and needs. *Reviews in Fish Biology and Fisheries* 27:393-409. DOI: 10.1007/s11160-017-9477-y
- (23) Cooper, A. R., **D. M. Infante**, K. E. Wehrly, L. Wang, and T. O. Brenden. 2016. Identifying indicators and quantifying large-scale effects of dams on fishes. *Ecological Indicators* 61:646-657. DOI: 10.1016/j.ecolind.2015.10.016
- (22) Forsyth, D., C. M. Riseng, K. Wehrly, L. Mason, J. Gaiot, T. Hollenhorst, C. Johnston, C. Wyrkowski, G. Annis, C. Castiglione, K. Todd, M. Tobertson, **D. M. Infante**, L. Wang, J. McKenna, and G. Whelan. 2016. The Great Lakes Hydrography Dataset: Consistent, binational watersheds for the Laurentian Great Lakes Basin. *Journal of the American Water Resources Association* 52:1068-1088. DOI: 10.1111/1752-1688.12435
- (21) Scribner, K. T., W. H. Lowe, E. Landguth, G. Luikart, **D. M. Infante**, G. E. Whelan. C. C. Muhlfeld. 2016. Applications of genetic data to improve management and conservation of river fishes and their habitats. *Fisheries* 41:174-188. DOI: 10.1080/03632415.2016.1150838
- (20) Sievert, N. A., C. P. Paukert, *Y. P. Tsang*, and **D. M. Infante**. 2016. Development and assessment of indices to determine stream fish vulnerability to climate change and habitat alteration. *Ecological Indicators* 67:403-416. DOI: 10.1016/j.ecolind.2016.03.013
- (19) Tang, T., J. Stevenson, and **D. M. Infante**. 2016. Accounting for regional variation in both natural environment and human disturbance to improve performance of multimetric indices of lotic benthic diatoms. *Science of the Total Environment* 568:1124-1134. DOI: 10.1016/j.scitotenv.2016.03.060
- (18) *Tsang, Y. P.*, **D. M. Infante**, J. Stewart, L. Wang, R. W. Tingley III, D. Thornbrugh, A. R. Cooper, and *W. M. Daniel*. 2016. StreamThermal 1.0: A software package for calculating thermal metrics from stream temperature data. *Fisheries* 41:548-554. DOI: 10.1080/03632415.2016.1210517
- (17) Wang, L., **D. M. Infante**, C. Riseng, and K. Wehrly. 2016. Advancement of geospatial capability by NRiSD and GLAHF in enhancing aquatic ecosystem research and management. *Geoinformatics and Geostatistics: An Overview*:4:2. DOI: 10.4172/2327-4581.1000142
- (16) Carlson, A., W. W. Taylor, K. Schlee, T. Zorn, and **D. M. Infante**. 2015. Projected impacts of climate change on stream salmonids with implications for resilience-based management. *Ecology of Freshwater Fish* 26:190-204. DOI: 10.1111/eff.12267

- (15) *Daniel, W. M., D. M. Infante, R. M. Hughes, Y. P. Tsang, P. C. Esselman, D. Wieferich, K. Herreman^, A. R. Cooper, L. Wang, and W. W. Taylor.* 2015. Characterizing coal and mineral mines as a regional source of stress to stream fish assemblages. *Ecological Indicators* 50:50-61. DOI: 10.1016/j.ecolind.2014.10.018
- (14) *Smith, S. D. P., P. B. McIntyre, B. S. Halpern, R. M. Cooke, A. L. Marino, G. L. Boyer, A. Buchsbaum, G. A. Burton Jr., L. M. Campbell, J. H. Ciborowski, P. J. Doran, D. M. Infante, L. B. Johnson, J. G. Read, J. B. Rose, E. S. Rutherford, A. D. Steinman, and J. D. Allan.* 2015. Rating impacts in a multi-stressor world: a quantitative assessment of 50 stressors affecting the Great Lakes. *Ecological Applications* 25:717-728. DOI: 10.1890/14-0366.1
- (13) *Wang, L., C. M. Riseng, L. A. Mason, K. E. Wehrly, E. S. Rutherford, J. E. McKenna, C. Castiglione, L. Johnson, D. M. Infante, S. Sowa, M. Robertson, J. Schaeffer, M. Khoury, J. Gaiot, T. Hollenhorst, C. Brooks, and M. Coscarelli.* 2015. A spatial classification and database for management, research, and policy making: The Great Lakes Aquatic Habitat Framework. *Journal of Great Lakes Research* 41:584-596. DOI: 10.1016/j.jglr.2015.03.017
- (12) *Wieferich, D.^, W. M. Daniel, and D. M. Infante.* 2015. Enhancing the utility of the NHDPlus river coverage: Characterizing ecological river reaches for improved management and summary of information. *Fisheries* 40:562-564. DOI: 10.1080/03632415.2015.1090977
- (11) *Deweber, J. T., Y. P. Tsang, D. Krueger, J. B. Whittier, T. Wagner, D. M. Infante, and G. Whelan.* 2014. Importance of understanding landscape biases in USGS gage locations: Implications and solutions for managers. *Fisheries* 39:155-163. DOI: 10.1080/03632415.2014.891503
- (10) *Tsang, Y. P., D. Wieferich^, K. Fung, D. M. Infante, and A. R. Cooper.* 2014. An approach for aggregating upstream catchment information to support research and management of fluvial systems across large landscapes. *SpringerPlus* 3:589-597. DOI: 10.1186/2193-1801-3-589
- (9) *Esselman, P. C., D. M. Infante, L. Wang, A. Cooper, D. Wieferich, Y. P. Tsang, D. Thornbrugh, and W. W. Taylor.* 2013. Regional fish community indicators of landscape disturbance to catchments of the conterminous United States. *Ecological Indicators* 26:163-173. DOI: 10.1016/j.ecolind.2012.10.028
- (8) *Januchowski-Hartley, S. R., P. B. McIntyre, M. Diebel, P. Doran, D. M. Infante, C. Joseph, and J. D. Allan.* 2013. Restoring aquatic ecosystem connectivity requires expanding inventories of both dams and road crossings. *Frontiers in Ecology and the Environment* 11:211-217. DOI: 10.1890/120168
- (7) *Allan, J. D., P. B. McIntyre, S. D. P. Smith, B. S. Halpern, G. Boyer, A. Buchsbaum, A. Burton, L. Campbell, L. Chadderton, J. Ciborowski, P. Doran, T. Eder, D. M. Infante, L. B. Johnson, C. G. Joseph, A. L. Marino, A. Prusevich, J. Read, J. Rose, E. Rutherford, S. Sowa, and A. Steinman.* 2013. Joint analysis of stressors and ecosystem services to enhance restoration effectiveness. *Proceedings of the National Academy of Sciences* 110:372-377. DOI: 10.1073/pnas.1213841110
- (6) *Wang, L., T. Brenden, J. Lyons, and D. M. Infante.* 2013. Predictability of in-stream physical habitat for Wisconsin and northern Michigan wadeable streams using GIS-derived landscape data. *Riparian Ecology and Conservation* 1:11-24. DOI: 10.2478/remc-2013-0003
- (5) *Esselman, P. C., D. M. Infante, L. Wang, D. Wu, A. Cooper, and W. W. Taylor.* 2011. An index of cumulative disturbance to river fish habitats of the conterminous United States from landscape anthropogenic activities. *Ecological Restoration* 23:133-151. DOI: 10.3368/er.29.1-2.133
- (4) *Wang, L., D. M. Infante, A. Cooper, J. Lyons, and J. Stewart.* 2011. Effects of dams in river networks on fish assemblages in non-impoundment sections of rivers in Michigan and Wisconsin, USA. *River Research and Applications* 27:473-487. DOI: 10.1002/rra.1356
- (3) *Wang, L., D. M. Infante, P. C. Esselman, A. Cooper, D. Wu, W. W. Taylor, D. Beard, G. Whelan, and A. Ostroff.* 2011. A hierarchical spatial framework and database for the National river fish habitat condition assessment. *Fisheries* 36:436-449. DOI: 10.1080/03632415.2011.607075
- (2) *Infante, D. M., J. D. Allan, S. Linke, and R. Norris.* 2009. Relationship of fish and macroinvertebrate assemblages to environmental factors: Implications for community concordance. *Hydrobiologia* 623:87-103. DOI: 10.1007/s10750-008-9650-3
- (1) *Nassauer, J. I., J. D. Allan, T. Johengen, S. Kosek, and D. M. Infante.* 2004. Exurban residential subdivision development: Effects on water quality and public perception. *Urban Ecosystems* 7:267-281. DOI: 10.1023/B:UECO.0000044039.65448.48

In review

- Cooper, A. R., **D. M. Infante**, J. R. O'Hanley, *H. Yu*, T. M. Neeson, and K. J. Brumm. In Review. Prioritizing native migratory fish passage restoration while limiting the spread of invasive species: A case study in the Upper Mississippi River. *Science of the Total Environment*.
- Tracy, E., **D. M. Infante**, A. Cooper and W. W. Taylor. In Review. Assessing ecological resilience of stream fish habitat to changes in climate: Improved information for conservation decision making. *Aquatic Conservation: Marine and Freshwater Ecosystems*.
- Tingley, R. W., **D. M. Infante**, E. M. Dean, D. W. Schemske, A. R. Cooper, J. A. Ross, and W. Daniel. In Review. A landscape approach for identifying potential reestablishment sites for extirpated species: An example with Arctic grayling (*Thymallus arcticus*) in Michigan. *Hydrobiologia*.
- Carlson, A. K., D. M. Krueger, W. W. Fetzer, J. S. Stewart, S. M. Westenbroek, L. Wang, K. E. Wehrly, D. Wieferich, Y. P. Tsang, and **D. M. Infante**. In Review. Application of a fine-scale modeling approach to assess broad-scale changes in stream thermal habitat in a changing climate. *Sustainability*.
- Cooke, S. J., E. Nyboer, A. Bennett, A. J. Lynch, **D. M. Infante**, I. G. Cowx, T. D. Beard, Jr., D. Bartley, C. P. Paukert, A. J. Reid, S. Funge-Smith, E. Gondwe, E. Kaunda, J. D. Koehn, N. J. Souter, G. L. Stokes, L. Castello, N. J. Leonard, C. Skov, S. Berg, and W. W. Taylor. In Review. The ten steps to responsible inland fisheries in practice: Reflections from diverse regional case studies around the globe. *Reviews in Fish Biology and Fisheries*.
- Xiong, F., J. Olden, Y. Lu, H. Liu, X. Qu, W. Xia, C. Guo, X. Wu, **D. M. Infante**, L. Wang, and Y. Chen. In Review. Riparian land use and in-channel stressors drive fish community structure in a large river (the Yangtze). *Landscape Ecology*.

EDITED BOOKS

Hughes, R., M., **D. M. Infante**, L. Wang, K. Chen, and B. Terra, editors. 2019. *Advances in Understanding Landscape Influences on Freshwater Habitats and Biological Assemblages*. American Fisheries Society, Issue 90, Bethesda, Maryland.

PEER-REVIEWED BOOK CHAPTERS

Graduate students for whom I am primary advisor are underlined.

Post-doctoral research associates from whom I am primary advisor are italicized.

Research technicians[^] whom I supervise are noted by [^].

Accepted or published

- (17) **Infante, D. M.** 2020. Taking risks: My non-strategic strategy for personal growth. Pages 351-358 in W. Taylor, A. K. Carlson, A. Bennett, and C. P. Ferreri, editors. *Lessons in leadership: Integrating courage, vision, and innovation for the future of sustainable fisheries*. American Fisheries Society, Bethesda, Maryland.
- (16) Tingley, R. W., **D. M. Infante**, W. M. Daniel, A. R. Cooper[^], G. C. Smith, and K. Herreman[^]. 2019. Prioritizing Hawaii's stream habitats to conserve native species with changing climate. Pages 109-133 in D. Dauwalter, T. Birdsong, and G. Garrett, editors. *Multispecies and watershed approaches to freshwater fish conservation*. American Fisheries Society, Issue 91, Bethesda, Maryland.
- (15) Cooper, A. R.[^], **D. M. Infante**, J. A. Ross, *W. M. Daniel*, K. Herreman[^], C. C. Estes, and G. E. Whelan. 2019. Contemporary and future landscape-based anthropogenic disturbances to Alaska streams: implications for anadromous fish habitat conservation. Pages 229-253 in Hughes, R., M., **D. M. Infante**, L. Wang, K. Chen, and B. Terra, editors. *Advances in Understanding Landscape Influences on Freshwater Habitats and Biological Assemblages*. American Fisheries Society, Issue 90, Bethesda, Maryland.
- (14) Hughes, R. M., **D. M. Infante**, L. Wang, K. Chen, and B. de Freitas Terra. 2019. Advances in understanding landscape influences on freshwater habitats and biological assemblages: Introduction. Pages 1-9 in Hughes, R., M., **D. M. Infante**, L. Wang, K. Chen, and B. Terra, editors. *Advances in Understanding Landscape Influences on Freshwater Habitats and Biological Assemblages*. American Fisheries Society, Issue 90, Bethesda, Maryland.
- (13) **Infante, D. M.**, L. Wang, R. M. Hughes, K. Chen, and B. de Freitas Terra. 2019. Advances, challenges, and gaps in understanding landscape influences on freshwater systems. Pages 463-496 in Hughes, R., M., **D. M. Infante**, L. Wang, K. Chen, and B. Terra, editors. *Advances in Understanding Landscape Influences on Freshwater Habitats and Biological Assemblages*. American Fisheries Society, Issue 90, Bethesda, Maryland.
- (12) Martin, B., Y. P. Tsang, R. W. Tingley, H. Clilverd, and **D. M. Infante**. 2019. Characterizing natural barriers to introduced stream fauna: A case study in Hawai'i. streams. Pages 83-104 in Hughes, R., M., **D. M. Infante**, L. Wang, K. Chen, and B. Terra, editors. *Advances in Understanding Landscape Influences on Freshwater Habitats and Biological Assemblages*. American Fisheries Society, Issue 90, Bethesda, Maryland.
- (11) Mostafavi, H., Z. Kordjazi, R. Valavi, H. Shafizadeh-Moghadam, J. Kambouzia, and **D. M. Infante**. 2019. Ensemble modelling of sensitive stream fish species distributions in Iran: expanding knowledge to aid species conservation. Pages 441-462 in Hughes, R., M., **D. M. Infante**, L. Wang, K. Chen, and B. Terra, editors. *Advances in Understanding Landscape Influences on Freshwater Habitats and Biological Assemblages*. American Fisheries Society, Issue 90, Bethesda, Maryland.
- (10) Ross, J. A., **D. M. Infante**, D. J. Martin, A. Cooper[^], and K. Herreman[^]. 2019. Influences of landscape factors on large wood in streams draining second growth catchments of southeast Alaska. Pages 203-228 in Hughes, R., M., **D. M. Infante**, L. Wang, K. Chen, and B. Terra, editors. *Advances in Understanding Landscape Influences on Freshwater Habitats and Biological Assemblages*. American Fisheries Society, Issue 90, Bethesda, Maryland.

- (9) Thornbrugh, D. J., and **D. M. Infante**. 2019. Landscape effects on stream fishes: regional responses to human land uses across the eastern United States. Pages 351-384 in Hughes, R., M., D. M. Infante, L. Wang, K. Chen, and B. Terra, editors. *Advances in Understanding Landscape Influences on Freshwater Habitats and Biological Assemblages*. American Fisheries Society, Issue 90, Bethesda, Maryland.
- (8) Whelan, G. E., *W. M. Daniel*, E. Dean, **D. M. Infante**, K. Herreman[^], and A. Cooper[^]. 2018. Who is doing what to trout: Insights from the National Fish Habitat Assessment. Pages 263-272 in *Wild Trout XII: Science, politics, and wild trout management: Who's driving and where are we going?* West Yellowstone, Montana.
- (7) Hudy, M., K. Nislow, E. P. Smith, A. R. Cooper, and **D. M. Infante**. 2014. The importance of scale: Assessing and predicting brook trout status in its southern native range. Pages 159-169 in R. F. Carline and C. LoSapio, editors. *Looking back and moving forward. Proceedings of the Wild Trout XI symposium*, Bozeman, Montana. <http://www.wildtroutsymposium.com/>
- (6) Parker, M., and **D. M. Infante**. 2014. Mentoring for diversity for more effective fisheries management and conservation. Pages 207-214 in A. Lynch, N. Leonard, and W. W. Taylor, editors. *Future of Fisheries: Perspectives for Emerging Professionals*. American Fisheries Society, Bethesda, Maryland. ISBN-13: 978-1-934874-38-7
- (5) Wehrly, K. E., L. Wang, **D. M. Infante**, A. Cooper, C. Geddes, L. Stanfield, and E. R. Rutherford. 2012. Landscape change and its influences on aquatic habitat and fisheries in the Great Lakes Basin. Pages 81-103 in W. W. Taylor, A. Lynch, and N. Leonard, editors. *Great Lakes Fisheries Policy and Management: A Binational Perspective, 2nd Edition*. Michigan State University Press, East Lansing, Michigan. DOI: 978-1-61186-024-5
- (4) **Infante, D. M.**, and J. D. Allan. 2010. Response of stream fish assemblages to local-scale habitat as influenced by landscape: A mechanistic investigation of stream fish assemblages. Pages 371-397 in K. Gido and D. Jackson, editors. *Community ecology of stream fishes*. American Fisheries Society, Bethesda, Maryland. ISBN: 978-1-934874-14-1
- (3) **Infante, D. M.**, M. J. Wiley, and P. Seelbach. 2006. Relationships among channel shape, catchment characteristics, and fish in lower Michigan streams. Pages 359-374 in R. M. Hughes, L. Wang, and P. W. Seelbach, editors. *Influences of landscape on stream habitats and biological assemblages*. American Fisheries Society, Issue 48, Bethesda, Maryland.
- (2) Diana, M. J., J. D. Allan, and **D. M. Infante**. 2006. The influence of habitat and land use on fish assemblages of streams in southeastern Michigan. Pages 359-374 in R. M. Hughes, L. Wang, and P. W. Seelbach, editors. *Influences of landscape on stream habitats and biological assemblages*. American Fisheries Society, Issue 48, Bethesda, Maryland.
- (1) Freedman, P. L., V. K. S. Breidenbach, **D. M. Infante**, and A. S. Kumar. 2004. A retrospective look at watershed management, reflected through six WEF sponsored conferences. *Watershed 2004*, July 2004 (8). Water Environment Federation, Alexandria, Virginia

REPORTS

Peer-reviewed reports indicated by (*)

Graduate students for whom I am primary advisor are underlined.

Post-doctoral research associates from whom I am primary advisor are italicized.

Research technicians[^] whom I supervise are noted by [^].

Published

- (16) *Yu, H.*, A. Cooper[^], J. Ross[^], and **D. M. Infante**. 2020. Aquatic GAP Analysis Program: Enhancing data and approaches of the Nation's inland and coastal aquatic ecosystems. Report to the US Geological Survey Aquatic GAP Program.
- (15) Dean, E. M., L. Walter, J. Tyson, and **D. M. Infante**. 2020. Assessing habitat suitability for migratory fish species in Great Lakes tributaries using a landscape approach: Information to aid in barrier management. Report to the Great Lakes Fishery Commission.

- (14) *Wuebbles, D., B. Cardinale, K. Cherkauer, R. Davidson-Arnott, J. Hellmann, **D. M. Infante**, L. Johnson, R. de Loe, B. Lofgren, A. Packman, F. Seglenieks, A. Sharma, B. Sohngen, M. Tiboris, D. Vimont, R. Wilson, K. Kunkel, and A. Ballinger. 2019. An assessment of the impacts of climate change on the Great Lakes. Environmental Law and Policy Center. <http://elpc.org/glclimatechange/>
- (13) Zorn, T., **D. M. Infante**, and K. Herreman[^]. 2018. Catchment-scale accounting of registered upstream withdrawals and return flows in the Water Withdrawal Assessment Process and Tool: Status and next steps. Report for the Michigan Water Use Advisory Council.
- (12) Triezenberg, H. A., K. Herreman[^], B. Riley, W. Knudson, **D. M. Infante**, and W. W. Taylor. 2018. Commercial aquaculture in Michigan: Siting guidebook. Michigan Sea Grant Publication.
- (11) Jones, M. L., A. Jensen, H. Dawson, and **D. M. Infante**. Evaluating trade-offs for sea lamprey management using an operating model of the control program. 2017. Technical report. Great Lakes Fishery Commission. http://www.glfc.org/pubs/pdfs/research/reports/2015_JON_54029.htm
- (10) *Daniel, W.*, N. Sievert, **D.M. Infante**, J. Whittier, J. Stewart, C. Paukert, and K. Herreman[^]. 2016. A decision support mapper for conserving stream fish habitats of the Northeast Climate Science Center region. Final Report to the US Geological Survey, Northeast Climate Science Center, Amherst, Massachusetts.
- (9) *Crawford, S., G. Whelan, G., **D. M. Infante**, K. Blackhart, *W. M. Daniel*, P. L. Fuller, T. Birdsong, D. J. Wieferich, R. McClees-Funinan, S. M. Stedman, K. Herreman[^], and P. Ruhl. 2016. Through a fish's eye: The status of fish habitats in the United States 2015. National Fish Habitat Partnership. <http://assessment.fishhabitat.org/>
- (8) Roth, B. M., C. M. Riseng, B. L. Sparks-Jackson, *W. W. Fetzer*, and **D. M. Infante**. 2016. Great Lakes indicator data accessibility and data gaps analysis for assessing progress toward achieving the GLWQA objectives. A final report to the International Joint Commission.
- (7) *Stewart, J.S., S. A. Covert, N. J. Estes, S. M. Westenbroek, D. Krueger, D. J. Wieferich, M. T. Slattery, J. D. Lyons, J. E. McKenna, Jr., **D. M. Infante**, J. L. and Bruce. 2016. FishVis, A regional decision support tool for identifying vulnerabilities of riverine habitat and fishes to climate change in the Great Lakes Region: U.S. Geological Survey Scientific Investigations Report 2016–5124, 15 p., with appendixes. DOI: 10.3133/sir20165124.
- (6) Roth, B. M., *W. W. Fetzer*, and **D. M. Infante**. 2015. Characterizing spatial and temporal heterogeneity of coastal fish diversity. A final report to the Michigan Department of Natural Resources.
- (5) Ostroff, A., **D. M. Infante**, E. Frimpong, W. A. Gould, R. M. Hughes, A. Loftus, J. E. McKenna, and A. McKerrow. Guidelines and requirements for projects supported by the National Aquatic GAP Analysis Program. 2013. U.S. Geological Survey Aquatic GAP Special Report.
- (4) Paukert, C., J. Whittier, **D. M. Infante**, S. Hostetler, L. Wang, L. Johnson, T. Wagner, B. Pijanowski, P. Jacobson, D. Periera, G. Whelan, and J. Kershner. 2011. Managing the Nation's fish habitat at multiple spatial scales in a rapidly changing climate. 2011 Annual Report to the U.S. Geological Survey, National Wildlife and Climate Change, Science Center.
- (3) Thornbrugh, D., and **D. M. Infante**. 2011. Effects of temperature on functional relationships among Michigan's fluvial fish assemblages: Identifying management opportunities in the face of environmental changes. Study performance report, Michigan Department of Natural Resources.
- (2) **Esselman, P. C.*, **D. M. Infante**, L. Wang, *D. Wu*, A. Cooper, and W. W. Taylor. 2010. An initial assessment of integrated human disturbances on stream fish habitats in the conterminous United States. Report by the Assessment Team to the Science and Data Committee and Board of the National Fish Habitat Action Plan, www.fishhabitat.org.
- (1) Paukert, C., J. Kershner, **D. M. Infante**, S. Hostetler, J. Whittier, L. Johnson, L. Wang, T. Wagner, P. Ferreri, B. Pijanowski, J. Olden, P. Jacobson, D. Pereira, G. Whelan. 2010. Managing the Nation's fish habitat at multiple spatial scales in a rapidly changing climate. 2010 Annual Report to the US Geological Survey, National Wildlife and Climate Change, Science Center.

PUBLISHED WEB MAPPERS, CODE, AND DATASETS

Post-doctoral research associates and graduate students for whom I was primary advisor and research technicians for whom I was primary supervisor when the research was conducted are underlined.

Web mappers

- (3) Fishtail: A Decision Support Mapper for Conserving Stream Fish Habitats of the Northeast Climate Science Center Region
Collaborators: C. Paukert, **D. M. Infante**, J. Stewart (lead developer), J. Whittier, W. Daniel, N. Sievert, K. Herreman
Publication Date: 2017, Website: <https://ccviewer.wim.usgs.gov/Fishtail/#>
- (2) FishVis: A Regional Decision Support Tool for Identifying Vulnerabilities of Riverine Habitat and Fishes to Climate Change in the Great Lakes Region
Collaborators: J. Stewart (lead developer), A. Covert, N. J. Estes, S. M. Westenbroek, D. Krueger, D. J. Wieferich, M. T. Slattery, J. D. Lyons, J. E. McKenna Jr., **D. M. Infante**, Jennifer L. Bruce
Publication Date: 2016, Website: <https://ccviewer.wim.usgs.gov/FishVis/>
- (1) NorEast: Stream Temperature Data Inventory
Collaborators: J. Stewart (lead developer), A. Polebitski, D. M. Infante, R. Palmer, D. Armstrong, J. McKenna, Y. P. Tsang
Publication Date: Beta Version, Website: <https://ccviewer.wim.usgs.gov/noreast/>

Code

- (3) NFHP Stream Buffer Code
Collaborators: A. Cooper
Publication Date: 2017, Website: <https://github.com/ArthurCooper/NFHP-Buffer-Code>
- (2) StreamThermal: A Software Package for Calculating Thermal Metrics from Stream Temperature Data
Collaborators: Y. P. Tsang, **D. M. Infante**, J. Stewart, L. Wang, R. Tingley, D. Thornbrugh, A. Cooper, W. Daniel
Publication Date: 2016, Website: <https://afspubs.onlinelibrary.wiley.com/doi/full/10.1080/03632415.2016.1210517>
- (1) An Approach for Aggregating Upstream Catchment Information to Support Research and Management of Fluvial Systems across Large Landscapes
Collaborators: **Y. P. Tsang**, D. Wieferich, K. Fung, **D. M. Infante**, and A. Cooper
Publication Date: 2014, Website: <https://springerplus.springeropen.com/articles/10.1186/2193-1801-3-589>

Datasets

- (15) Locations of mines and mining activity in the contiguous United States 2013. Collaborators: K. Herreman, W. M. Daniel, D. J. Wieferich, and **D. M. Infante**. Publication Date: 2019, DOI: 10.5066/P9FPEAGC
- (14) Hawaii waterfalls linked to the National Hydrography Datasets
Collaborators: B. Martin, Y. P. Tsang, R. W. Tingley III, D. J. Wieferich, H. Clilverd, **D. M. Infante**.
Publication Date: 2019, DOI: 10.5066/P9EA3GCD
- (13) National Fish Habitat Partnership (NFHP) 2015 cumulative habitat condition scores and disturbance indices linked to catchments of Southeast Alaska
Collaborators: A. Cooper, W. Daniel, **D. M. Infante**, J. Ross, K. Herreman
Publication Date: 2017, DOI: 10.5066/F7TT4P4X
- (12) National Fish Habitat Partnership (NFHP) 2015 cumulative habitat condition scores and disturbance indices linked to HUC 12 watersheds in Alaska of the Watershed Boundary Dataset
Collaborators: A. Cooper, W. Daniel, **D. M. Infante**, J. Ross, K. Herreman
Publication Date: 2017, DOI: 10.5066/F73B5XBJ
- (11) National Fish Habitat Partnership (NFHP) 2015 cumulative habitat condition indices and limiting disturbances for the conterminous United States linked to NHDPlus V1 V2.0

- Collaborators: W. Daniel, **D. M. Infante**, K. Herreman, A. Cooper, J. Ross
 Publication Date: 2017, DOI: 10.5066/F73R0R1P
- (10) National Fish Habitat Partnership (NFHP) 2015 anthropogenic disturbance data for the conterminous United States linked to the NHDPlus V1
 Collaborators: K. Herreman, A. Cooper, **D. M. Infante**, W. Daniel
 Publication Date: 2017, DOI: 10.5066/F7000086
- (9) National Fish Habitat Partnership (NFHP) 2015 human disturbance data for Hawaii
 Collaborators: K. Herreman, R. W. Tingley III, **D. M. Infante**, W. Daniel, A. Cooper
 Publication Date: 2017, DOI: 10.5066/F7FJ2F09
- (8) National Fish Habitat Partnership (NFHP) 2015 cumulative habitat condition scores and disturbance indices linked to HUC 12 watersheds in Alaska of the Watershed Boundary Dataset
 Collaborators: K. Herreman, A. Cooper, W. Daniel, J. Ross, **D. M. Infante**
 Publication Date: 2017, DOI: 10.5066/F73B5XBJ
- (7) National Fish Habitat Partnership (NFHP) 2015 human disturbance data for Alaska linked to HUC12 watersheds
 Collaborators: K. Herreman, A. Cooper, W. Daniel, J. Ross, **D. M. Infante**
 Publication Date: 2017, DOI: <https://doi.org/10.5066/F7ZK5DV7>
- (6) National Fish Habitat Partnership (NFHP) 2015 cumulative habitat condition scores and disturbance indices for Hawaii linked to catchments of the Hawai'i Fish Habitat Partnership stream layer
 Collaborators: R. W. Tingley III, **D. M. Infante**, W. Daniel, K. Herreman, A. Cooper
 Publication Date: 2017, DOI: 10.5066/F7PC30HG
- (5) Dam metrics representing stream fragmentation and flow alteration for the conterminous United States linked to the NHDPlus V1
 Collaborators: A. Cooper and **D. M. Infante**
 Publication Date: 2017, DOI: 10.5066/F7FN14C5
- (4) National Fish Habitat Partnership (NFHP) 90 meter buffers of the NHDPlusV1 for the conterminous United States
 Collaborators: A. Cooper, K. Herreman, **D. M. Infante**, W. Daniel
 Publication Date: 2017, DOI: 10.5066/F7H1306F
- (3) Enhancing the utility of the NHDPlus river coverage: characterizing ecological river reaches for improved management and summary of information
 Collaborators: D. Wieferich, W. Daniel, and **D. M. Infante**
 Publication Date: 2015, DOI: 10.1080/03632415.2015.1090977
- (2) National Anthropogenic Barrier Dataset (NABD) 2012
 Collaborators: A. Ostroff, D. Wieferich, A. Cooper, **D. M. Infante**
 Publication Date: 2012, Website: <https://cmerwebmap.cr.usgs.gov/catalog/item/56a7f9dce4b0b28f1184dabd>
- (1) National Fish Habitat Partnership (NFHP) data system
 Collaborators: P. Esselman, **D. M. Infante**, L. Wang, W. Taylor, W. Daniel, R. Tingley, J. Fenner, A. Cooper, D. Wieferich, D. Thornbrugh, and J. Ross
 Publication Date: 2011, Website: <https://www.sciencebase.gov/catalog/item/4f4e4773e4b07f02db47e241>

GRANTS

Includes grants awarded or under review

Pending

Michigan Department of Natural Resources 2021-2022. Developing a holistic approach to evaluate and communicate natural resource assets and management actions for Michigan's Large Rivers: Focus on the Au Sable River. **\$130,000**. (Kelly Robinson, PI, and Dana M. Infante, co-PI).

Awarded

- (58) Michigan Department of Natural Resources. 2020-2021. Effects of flow reduction on thermal dynamics of streams: Improving an important link in Michigan's Water Withdrawal Assessment Tool (WWAT). **\$6962 (Dana M. Infante, PI)**.
- (57) Michigan Department of Environment, Great Lakes, and Energy. 2020-2021. Modifications to the High Resolution National Hydrography Dataset: Enhancing Michigan's Water Withdrawal Assessment Tool. **\$146,236 (Dana M. Infante, PI)**.
- (56) Michigan Department of Natural Resources. 2020-2021. Support for revision of the Wildlife Action Plan. **\$126,288 (Dana M. Infante, PI)**.
- (55) US Geological Survey. 2020-2021. Aquatic GAP Analysis Program: Enhancing a national view of conservation needs of fishes and their habitats. **\$150,000 (Dana M. Infante, PI)**.
- (54) US Department of Agriculture Natural Resources Conservation Service. 2020-2023. Modeling water quality and biological endpoints of agricultural conservation in the Mississippi River basin. (Joanna Whittier, PI)
Subcontract: University of Missouri. Modeling water quality and biological endpoints of agricultural conservation in the Mississippi River basin. **\$30,096 (Dana M. Infante, PI)**.
- (53) US Fish and Wildlife Service. 2020- 2022. Phase 3: Building capacity for Midwest Glacial Lakes Partnership Conservation. **\$40,000 (Dana M. Infante, PI)**.
- (52) US Fish and Wildlife Service. 2020-2021. Phase 2: Building capacity for Midwest Glacial Lakes Partnership conservation. **\$93,586 (Dana M. Infante, PI)**.
- (51) US Fish and Wildlife Service. 2020. Midwest Glacial Lakes Partnership Coordination.
Subcontract: Michigan Department of Natural Resources Fisheries Division. Phase 1: Building capacity for Midwest Glacial Lakes Partnership Conservation. **\$17,495 (Dana M. Infante, PI)**.
- (50) Michigan Department of Natural Resources Fisheries Division. 2019-2020. Support for revision of the State Wildlife Action Plan. **\$79,570 (Dana M. Infante, PI)**.
- (49) Great Lakes Fishery Commission. 2019-2020. Assessing habitat suitability for target fish species above and below barriers on Great Lakes tributaries. **\$59,152 (Dana M. Infante, PI)**.
- (48) Michigan State University, College of Agriculture and Natural Resources. 2018. Professional Development Microgrant for attending the 4th Mississippi-Yangtze River Basins Symposium in Chongqing, China. **\$3000 (Dana M. Infante, PI)**.
- (47) Michigan Department of Natural Resources Fisheries Division. 2018-2019. Support for revision of the State Wildlife Action Plan. **\$84,623 (Dana M. Infante, PI)**.
- (46) Michigan Department of Natural Resources Fisheries Division. 2017-2018. Effects of flow reduction on thermal dynamics of streams: improving an important link in Michigan's Water Withdrawal Assessment Tool (WWAT). **\$157,666**. (Dan Hayes, PI and **Dana M. Infante, co-PI**).
Aggregating cumulative water withdrawal information for any point in a drainage. **\$44,521 (Dana M. Infante, PI)**
- (45) Michigan Department of Natural Resources Fisheries Division. 2017-2018. Support for revision of the State Wildlife Action Plan. **\$82,158 (Dana M. Infante, PI)**.
- (44) U.S. Geological Survey, Aquatic GAP Analysis Program. 2017-2020. Aquatic GAP Analysis Program: Enhancing data and approaches for conserving the Nation's inland aquatic ecosystems. **\$500,000 (Dana M. Infante, PI)**.

- (43) U.S. Fish and Wildlife Service, Eastern Tallgrass Prairie and Big Rivers Landscape Conservation Cooperative. 2017-2019. Characterizing the current condition of stream fish habitats throughout the US portion of the Mississippi River Basin based on responses of target fish species to a diverse set of current landscape-scale disturbances. **\$31,998 (Dana M. Infante, PI).**
- (42) Michigan Department of Natural Resources, Fisheries Division. 2017-2022. Great Lakes and inland GIS support and development for Michigan (State Wildlife Action Plan) SWAP implementation. **\$337,871 (Dana M. Infante, PI).**
- (41) Michigan Department of Natural Resources Fisheries Division. 2016-2017. Support for revision of the State Wildlife Action Plan. **\$79,504 (Dana M. Infante, PI).**
- (40) U.S. Fish and Wildlife Service, National Fish Habitat Action Plan. 2013-2018. A national assessment of the status of fish habitat. **\$156,000 year 4 (Dana M. Infante, PI and William W. Taylor, co-PI).**
- (39) U.S. Geological Survey, Aquatic GAP Analysis Program. 2016-2017. Aquatic GAP Analysis Program: Enhancing data and approaches of the Nation's inland and coastal aquatic ecosystems. **\$105,071 (Dana M. Infante, PI).**
- (38) Association of Fish and Wildlife Agencies. 2016. Developing a decision support process to aid in conservation of aquatic habitats throughout the main Hawaiian islands. **\$30,000 (Dana M. Infante, PI).**
- (37) Gulf Coast Prairie Landscape Conservation Cooperative. 2015-2016. Strategic coordination of *Quadrula* spp. research and conservation **\$59,915 (Dana M. Infante, PI, and Wesley M. Daniel, co-PI).**
- (36) U.S. Fish and Wildlife Service, National Fish Habitat Action Plan. 2013-2018. A national assessment of the status of fish habitat. **\$156,000 year 3 (Dana M. Infante, PI, and William W. Taylor, co-PI).**
- (35) U.S. Geological Survey, Aquatic GAP Analysis Program. 2015-2016. Aquatic GAP Analysis Program: Enhancing data and approaches of the Nation's inland and coastal aquatic ecosystems. **\$98,200 (Dana M. Infante, PI).**
- (34) International Joint Commission. 2015. Great Lakes Basin land cover and fragmentation status assessment. **\$12,000 (Dana M. Infante, PI).**
- (33) International Joint Commission 2015. Assessment of progress indicator data integration. **\$80,100 (Brian Roth, PI, and Dana M. Infante, co-PI).**
- (32) Great Lakes Fishery Commission. 2015. Trade-offs for sea lamprey management using an operating model of the control program. **\$141,077 (Michael Jones, PI, and Dana M. Infante, co-PI).**
- (31) Michigan Department of Natural Resources Fisheries Division. 2015-2016. Support for revision of the State Wildlife Action Plan. **\$76,942 (Dana M. Infante, PI).**
- (30) Michigan Department of Natural Resources, Fisheries Division. 2014-2017. Development of lake spatial information and tools for aquatic life conservation. **\$199,266 (Mary Bremigan, PI, and Dana M. Infante, co-PI).**
- (29) Michigan Department of Natural Resources. 2014-2015. Support for revision of State Wildlife Action Plan. **\$71,767 (Dana M. Infante, PI).**
- (28) Michigan Department of Natural Resources. 2014-2015. Characterizing spatial and temporal heterogeneity of coastal fish diversity. **\$19,927 (Brian Roth, PI, and Dana M. Infante, co-PI).**
- (27) Association of Fish and Wildlife Agencies. 2014. Developing a decision support process to aid in conservation of aquatic habitats throughout the Main Hawaiian Islands. **\$9226 (Dana M. Infante, PI).**
- (26) U.S. Geological Survey, Aquatic GAP Analysis Program. 2014-2015. Aquatic GAP Analysis Program: Enhancing data and approaches of the Nation's inland and coastal aquatic ecosystems. **\$159,269 (Dana M. Infante, PI).**
- (25) The Nature Conservancy. 2014-2015. Coordination with TNC Michigan field office science and conservation staff. **\$13,499. (Dana M. Infante, PI and Michael Jones, co-PI).**
- (24) Northeast Climate Science Center. 2013-2015. Characterizing stream fish habitats throughout the Northeast United States. **\$199,881. (Craig Paukert, PI and Dana M. Infante, Jana Stewart, Joanna Whittier, and Tyler Wagner, co-PIs).**
- Subcontract: U.S. Geological Survey, Missouri Cooperative Research Program. 2013-2014. Characterizing stream fish habitats throughout the Northeast United States: Providing technical assistance for data compilation and mapper development. **\$18,288 (Dana M. Infante, PI.)**

- (23) The Nature Conservancy. 2013-2014. Great Lakes IMDS Project, Phase 4. 2013-2014. **\$12,789 (Dana M. Infante, PI and Michael Jones, co-PI).**
- (22) Northeast Climate Science Center. 2013-2014. NorEaST – Stream Temperature Web Portal Demonstration and Application. **\$48,551.** (Jana Stewart, PI and Austin Polebitski, **Dana M. Infante**, Nate Booth, Gary Latzke, Dave Armstrong, and James McKenna, co-PIs).
 Subcontract: U.S. Geological Survey, Wisconsin Water Science Center. 2013-2015. NorEaST – Stream Temperature Web Portal Demonstration and Application **\$34,540 (Dana M. Infante, PI).**
- (21) Michigan Department of Natural Resources. 2013-2014. A comprehensive plan for addressing gaps in understanding of near-shore fish communities in the Great Lakes. **\$110,325** (Brian Roth, PI and **Dana M. Infante, co-PI).**
- (20) Michigan Department of Natural Resources. 2013-2014. Refinement of the aquatic portion of Michigan's Wildlife Action Plan and development of tools to support the plan. **\$73,648 (Dana M. Infante, PI).**
- (19) U.S. Geological Survey, Aquatic GAP Analysis Program. 2013-2014. Aquatic GAP Analysis Program: Data and approaches for conserving the Nation's inland and coastal aquatic ecosystems. **\$208,000 (Dana M. Infante, PI).**
- (18) U.S. Fish and Wildlife Service, National Fish Habitat Action Plan. 2013-2018. A national assessment of the status of fish habitat. **\$321,750 year 1 and year 2 (Dana M. Infante, PI and William W. Taylor, co-PI).**
- (17) Michigan Department of Natural Resources. 2012-2013. Support for revision of State Wildlife Action Plan. **\$35,631 (Dana M. Infante, PI).**
- (16) U.S. Fish and Wildlife Service, Hawaii Fish Habitat Partnership. 2012-2013. Vulnerability assessment of Hawaiian streams to changing flow regimes. **\$20,000 (Dana M. Infante, PI and Richard MacKenzie, co-PI).**
- (15) Northeast Climate Science Center. 2012-2013. A stream temperature inventory network and decision support metadata mapper - Evaluating the resources to understanding climate change effects on streams in New England and the Great Lakes States. **\$134,800** (Jana Stewart, PI and Marcus Waldron, David Armstrong, Jim McKenna, **Dana M. Infante**, and Kevin Wehrly, co-PIs).
 Subcontract: U.S. Geological Survey, Wisconsin Water Science Center. 2012-2013. A stream temperature inventory network and decision support metadata mapper - Evaluating the resources to understanding climate change effects on streams in New England and the Great Lakes States. **\$13,000 (Dana M. Infante, PI).**
- (14) U.S. Geological Survey, Aquatic GAP Analysis Program. 2012-2013. Aquatic GAP Analysis Program: Developing data and approaches for conserving aquatic ecosystems of Puerto Rico. **\$25,181** (William W. Taylor, PI, and **Dana M. Infante, co-PI).**
- (13) U.S. Geological Survey, Aquatic GAP Analysis Program. 2012-2013. Aquatic GAP Program: Developing data and approaches to support conservation of aquatic ecosystems across the Nation. **\$188,829 (Dana M. Infante, PI and William W. Taylor, co-PI).**
- (12) U.S. Fish and Wildlife Service, Hawaii Fish Habitat Partnership. 2011-2013. Impacts of altered stream flow on native shrimp production, reproduction, and food web structure in streams in the Hilo region of Hawai'i island. **\$18,000** (Richard MacKenzie, PI and Christian P. Giardina, **Dana M. Infante**, G. Bruland, T. Giambelluca, Robert Nishimoto, and Kaeo Duarte, co-PIs).
 Subcontract: U.S. Forest Service, Institute of Pacific Islands Forestry. Impacts of decreased stream flow on native shrimp populations (*Atyoida bisulcata*) in Hawaiian streams. **\$13,950 (Dana M. Infante, PI).**
- (11) U.S. Fish and Wildlife Service, National Fish Habitat Action Plan. 2011-2013. A national assessment of the status of fish habitat. **\$165,000 (Dana M. Infante, PI and William W. Taylor, co-PI).**
- (10) U.S. Fish and Wildlife Service, Upper Midwest and Great Lakes Landscape Conservation Cooperative. 2011-2012. A regional decision support tool for identifying vulnerabilities of riverine habitat and fish to climate change. **\$400,000** (Jana Stewart, PI and Lizhu Wang, Jim McKenna, **Dana M. Infante**, and John Lyons, co-PIs).
 Subcontract: U.S. Geological Survey, Wisconsin Water Science Center. 2011-2012. A regional decision support tool for identifying vulnerabilities of riverine habitat and fish to climate change. **\$89,840 (Dana M. Infante, PI).**

- (9) U.S. Geological Survey, Aquatic GAP Analysis Program. 2011-2013. Aquatic GAP Analysis Program: Developing landscape-scale understanding, approaches, and data for managing aquatic biodiversity. **\$269,757 (Dana M. Infante, PI).**
- (8) Sealaska Corporation. 2010-2012. Effects of riparian timber harvest on anadromous fish habitat in southeast Alaska streams. **\$13,500 (Dana M. Infante, PI).**
- (7) U.S. Geological Survey, National Climate Change and Wildlife Science Center. 2010-2012. Managing the Nation's fish habitat at multiple spatial scales in a rapidly changing climate. \$2,618,531 total and **\$835,519** to MSU (Craig Paukert, PI and Joanna Whittier, **Dana M. Infante**, Steve Hostetler, Lizhu Wang, Lucinda Johnson, Tyler Wagner, Brian Pijanowski, Julian Olden, Pete Jacobson, Don Pereira, Gary Whelan, and Jeff Kershner, co-PIs).
- (6) U.S. Geological Survey Aquatic GAP Analysis Program. 2010-2012. Aquatic GAP Analysis Program: Developing landscape-scale understanding, approaches, and data for managing aquatic biodiversity. **\$161,000 (Dana M. Infante, PI and William W. Taylor, co-PI).**
- (5) Michigan Department of Natural Resources, Fisheries Division. 2010-2015. Development of lake spatial information and tools for aquatic life conservation. **\$336,406 (Mary Bremigan, PI and Dana M. Infante, co-PI).**
- (4) Michigan State University, Center for Water Science. 2010-2011. Managing for climate change in aquatic ecosystems of the Hawaiian Islands: Developing, data, approaches and collaborations to conserve and sustain biodiversity. **\$9,709 (Dana M. Infante, PI).**
- (3) Michigan Department of Natural Resources, Fisheries Division. 2009-2011. Effects of temperature on functional relationships among Michigan's fluvial fish assemblages: Identifying management opportunities in the face of environmental changes. **\$46,900 (Dana M. Infante, PI and Ashley Moerke, Casey Huckins, and Travis Brenden, co-PIs).**
- (2) U.S. Fish and Wildlife Service, National Fish Habitat Action Plan. 2007-2011. An initial national assessment of the status of fish habitat. **\$447,000 (Dana M. Infante, PI and William W. Taylor, co-PI).**
- (1) U.S. Geological Survey Aquatic GAP Program. 2007-2010. Aquatic GAP Analysis Program: A search for new paradigms to guide future research. **\$322,847 (Dana M. Infante, PI and William W. Taylor, co-PI).**

PRESENTATIONS

Presenting author first. Post-doctoral research associates and graduate students for whom I was primary advisor and research technicians for whom I was primary supervisor when the research was conducted are underlined. (**) indicates that work has a significant outreach component.

Invited presentations

- (83) ****Mackenzie, R., A. Strauch, R. W. Tingley, T. Frauendorf, P. Foulk, G. Bruland, C. Giardina, D. M. Infante, and M. Riney.** Invited. 2021. Impacts of changing rainfall regimes on the ecological function of Pacific Island streams. The Wildlife Society annual meeting, Virtual, November 1-5, 2021.
- (82) ****Whittier, J., J. Ross, **D. M. Infante**, A. Cooper, J. Stewart, W. Daniel, and K. Herreman.** *Invited*. 2021. FishTail: Current conservation status of stream fish habitat throughout the Mississippi River basin. 81st Annual Midwest Fish and Wildlife Conference, Virtual, February 1-4, 2021.
- (81) ****Dean, E. M., L. Walter, J. Tyson, and **D. M. Infante**.** *Invited*. 2020. Assessing habitat suitability for migratory fish species in Great Lakes tributaries using a landscape approach: Information to aid in barrier management. Virtual meeting for stakeholders of the Great Lakes Fishery Commission, November 3, 2020.
- (80) ******Infante, D. M.**** *Invited*. 2020. PERM: The Partnership for Ecosystem Research and Management. Annual Meeting of the Michigan State University Extension and AgBioResearch State Advisory Council, October 19, 2020.
- (79) ****Cooper, A., **D. M. Infante**, H. Yu.** *Invited*. 2020. Prioritizing dam mitigation opportunities for imperiled migratory fishes in the Upper Mississippi River. 150th Annual Meeting of the American Fisheries Society, September 14-25, 2020, Virtual Meeting.
- (78) ****Dean, E., L. Walter, J. Tyson, and **D. M. Infante**.** *Invited*. 2020. Assessing habitat suitability for migratory fish species in Great Lakes tributaries using a landscape approach: Information to aid in barrier management. 150th Annual Meeting of the American Fisheries Society, September 14-25, 2020, Virtual Meeting.
- (77) ******Infante, D. M.**, J. Ross, J. Whittier, and A. Cooper.** *Invited*. 2020. Conserving stream fish habitats throughout the Mississippi River basin: Information to support landscape-scale planning. 150th Annual Meeting of the American Fisheries Society, September 14-25, 2020, Virtual Meeting.
- (76) ****Infante, D. M.**, M. Üblacker, and R. Schinegger.** *Invited*. 2020. Crossfish: Investigating human landscape stressor effects on fluvial fishes of Europe and the United States to improve conservation of fishes globally. 150th Annual Meeting of the American Fisheries Society, September 14-25, 2020, Virtual Meeting.
- (75) Tsang, Y., B. Martin, R. W. Tingley, H. Clilverd, and **D. M. Infante**. *Invited*. 2020. Characterizing natural barriers to nonnative stream fauna in Hawai'i. 150th Annual Meeting of the American Fisheries Society, September 14-25, 2020, Virtual Meeting.
- (74) ****Ross, J., **D. M. Infante**, J. Whittier, A. Cooper, J. Stewart, W. Daniel, and K. Herreman.** *Invited*. 2020. FISHTAIL: Considering effects of human land use, dams, and excess nutrients on stream fish habitats throughout the Mississippi river basin to aid conservation. Southern Division of the American Fisheries Society, February 20-23, 2020, Little Rock, Arkansas.
- (73) ******Infante, D. M.**** *Invited*. 2020. Conserving stream fishes with changing climate: Tools to aid managers in the Great Lakes region. Presentation given to the Senate Agriculture Team of Senator Debbie Stabenow, June 29, 2020.
- (72) ******Infante, D. M.**, J. Whittier, J. Stewart, J. Ross, A. Cooper, W. Daniel, N. Sievert, and K. Herreman.** *Invited*. 2020. FishTail: Assessing condition of stream fish habitat throughout the Mississippi River basin and northeast states. Presentation for the US Fish and Wildlife Service Midwest Landscape Initiative (MLI) Habitat Working Group, Virtual Meeting March 31, 2020.
- (71) ******Infante, D. M.**, A. Cooper, and H. Yu.** *Invited*. 2020. Aquatic GAP Analysis Program: Enhancing data and approaches for conserving the Nation's inland aquatic ecosystems. US Geological Survey Bio Foundational Data and Analysis Team meeting, February 5, 2020, Boise, Idaho.
- (70) ****Infante, D. M.**** *Invited*. 2019. Assessing the contribution of protected landscapes for conserving river fishes across the USA. International Society for River Science, September 8-13, 2019, Vienna, Austria.

- (69) **Infante, D. M.** *Invited*. 2019. FishTail: Assessing condition of stream fish habitat throughout the Mississippi River Basin, USA. International Society for River Science, September 8-13, 2019, Vienna, Austria.
- (68) Chen, Y., **D. M. Infante**, and C. Paukert. *Invited*. 2019. Challenges in restoring aquatic biodiversity in the Yangtze River basin under multiple human landscape stressors. International Society for River Science, September 8-13, 2019, Vienna, Austria.
- (67) Schinegger, R., M. Ublacker, W. M. Daniel, K. Herreman, S. Schmutz, and **D. M. Infante**. *Invited*. 2019. A cross-continental evaluation of the response patterns of fish assemblages to landscape-scale human stressors in European and United States' major freshwater habitats. International Society for River Science, September 8-13, 2019, Vienna, Austria.
- (66) ****Wuebbles, D., A. Sharma, and D. M. Infante.** *Invited*. 2019. Assessment of the impacts of climate change on the Great Lakes: 2019. Briefing for the U.S. Senate Climate Taskforce, July 9, 2019, Washington D.C.
- (65) ****Wuebbles, D., A. Sharma, and D. M. Infante.** *Invited*. 2019. Assessment of the impacts of climate change on the Great Lakes: 2019. Briefing for Congressional Staff, July 9, 2019, Washington D.C.
- (64) ****Infante, D. M.** *Invited*. 2018. Assessing river fish habitats throughout the United States: Outcomes and opportunities for conserving fishes from current and future threats. 4th Mississippi-Yangtze River Basins Symposium, October 15-20, 2018, Chongqing, China.
- (63) Clilverd, H., Y. P. Tsang, A. Lynch, and **D. M. Infante**. *Invited*. 2018. Assessing the impact of declining streamflow on the distribution of native fishes across the Hawaiian Islands. 148th Annual Meeting of the American Fisheries Society, August 19-23, 2018, Atlantic City, New Jersey.
- (62) Daniel, W. M., P. Fuller, and **D. M. Infante**. 2018. *Invited*. Are game fishes outside their native range more tolerant of landscape disturbance? 148th Annual Meeting of the American Fisheries Society, August 19-23, 2018, Atlantic City, New Jersey.
- (61) Daniel, W. M., D. M. Infante, K. Herreman, A. R. Cooper, and R. M. Hughes. *Invited*. 2018. Characterizing coal and mineral mines as a regional source of stress to stream fish assemblages. 148th Annual Meeting of the American Fisheries Society, August 19-23, 2018, Atlantic City, New Jersey.
- (60) Schinegger, R., M. Ublacker, W. M. Daniel, K. Herreman, and **D. M. Infante**. *Invited*. 2018. The impacts of human stressors on riverine fish communities – a cross-continental analysis of European and United States freshwater ecoregions. 148th Annual Meeting of the American Fisheries Society, August 19-23, 2018, Atlantic City, New Jersey.
- (59) ****Whelan, G., E. Dean, W. M. Daniel, K. Herreman, and D. M. Infante.** *Invited*. 2018. Drilling deep for stream species diversity: Some fishy insights from the National Fish Habitat Assessment. 148th Annual Meeting of the American Fisheries Society, August 19-23, 2018, Atlantic City, New Jersey.
- (58) Zeni, J., G. Brejao, D. Hoeninghaus, L. Casatti, L. Montag, L. Driver, and **D. M. Infante**. *Invited*. 2018. Dynamic landscapes and stream fish ecology in the Neotropics: Lessons from and for temperate systems. 148th Annual Meeting of the American Fisheries Society, August 19-23, 2018, Atlantic City, New Jersey.
- (57) ****Infante, D. M.** *Invited*. 2018. Conserving stream fishes throughout large regions: Using multiple species distribution models to enhance decision-making. Seminar for the Institute of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Life Sciences, June 6, 2018, Vienna, Austria.
- (56) ****Cooper, A. R., and D. M. Infante.** *Invited*. 2018. Quantifying and assessing the effects of fragmentation by dams on streams and fishes of the conterminous USA. Seminar for the Institute of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Life Sciences, June 6, 2018, Vienna, Austria.
- (55) ****Daniel, W. M., D. M. Infante,** and P. Fuller. 2018. *Invited*. Applications of the 2015 national assessment of stream fish habitats: Conserving aquatic habitats and the fishes they support from current and future threats. American Water Resources Association 2018 Spring Specialty Conference, GIS and Water Resources X – Spatial Analysis of Watersheds, April 22-25, Orlando, Florida.
- (54) ****Herreman, K., D. M. Infante, W. M. Daniel, and A. R. Cooper.** *Invited*. 2018. Applications of GIS data and analysis: Highlighting national and regional products from the United States. Seminar for the Institute

of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Life Sciences, March 7, 2018, Vienna, Austria.

- (53) ****Herreman, K., D. M. Infante, W. M. Daniel, and A. R. Cooper. *Invited*.** 2018. Applications of GIS data and analysis: Examining data and tools to enhance output. Guest lecture for GIS in Riverscape Planning, Institute of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Life Sciences, March 1, 2018, Vienna, Austria.
- (52) **Infante, D. M. *Invited*.** 2017. Landscape-scale assessment of stream fishes and their habitats: Enhancing conservation throughout large regions. Spring 2017 Fish and Wildlife Sciences Seminar Series, University of Idaho, March 24, 2017, Moscow, Idaho.
- (51) ****Daniel, W. M., D. M. Infante, and J. Stewart. *Invited*.** 2017. FishVis and FishTail: Decision support mappers for assessing current and future fish habitat. Adapting Forested Watersheds to Climate Change Workshop, US Forest Service, March 15, 2017, Minocqua, Wisconsin.
- (50) ****Infante, D. M., W. M. Daniel, K. Herreman, and A. R. Cooper. *Invited*.** 2016. Landscape-scale assessment of stream fish habitats: Results from 2015 National Fish Habitat Partnership inland stream assessment. Michigan Department of Natural Resources Fisheries Division Biologists Meeting, November 30, 2016, Crystal Mountain, Michigan.
- (49) ****Infante, D. M. *Invited*.** 2016. Landscape-scale assessment of stream fishes and their habitats: Lessons learned and future directions. Graduate Student Seminar Series, Department of Natural Resource Ecology and Management, Iowa State University, October 14, 2016, Ames, Iowa.
- (48) ****Cooper, A. R., W. M. Daniel, P. Badra, and D. M. Infante. *Invited*.** 2016. Modeling fluvial habitat suitability for 11 of Michigan's listed unionids. 146th Annual Meeting of the American Fisheries Society, August 21-25, 2016, Kansas City, Missouri.
- (47) ****Daniel, W. M., D. M. Infante, and E. Throckmorton. *Invited*.** 2016. A strategic conservation plan for threatened and endangered mussel species of the Gulf Coast Prairie Region. 146th Annual Meeting of the American Fisheries Society, August 21-25, 2016, Kansas City, Missouri.
- (46) ****Sievert, N., Y. P. Tsang, W. M. Daniel, C. P. Paukert, D. M. Infante, J. Whittier, K. Herreman, and J. Stewart. *Invited*.** 2016. Assessing climate impacts based on observed fish responses to stream temperature and flow metrics. 146th Annual Meeting of the American Fisheries Society, August 21-25, 2016, Kansas City, Missouri.
- (45) ****Wieferich, D., D. M. Infante, and Y. P. Tsang. *Invited*.** 2016. National and regional data assets and needs to help assess climate impacts on fish. 146th Annual Meeting of the American Fisheries Society, August 21-25, 2016, Kansas City, Missouri.
- (44) ****Infante, D. M., R. W. Tingley, W. M. Daniel, K. M. Herreman, Y. P. Tsang, and A. R. Cooper. *Invited*.** 2016. Assessing threats to Hawaiian streams for the 2015 National Fish Habitat Assessment. Hawaii Stream Conservation Workshop 2016, February 23-25, 2016, Honolulu, Hawaii.
- (43) ****Daniel, W. M., and D. M. Infante. *Invited*.** 2015. National Fish Habitat Partnership 2015 Inland Assessment. October National Fish Habitat Partnership Board Meeting, October 20, 2015, Sacramento, California.
- (42) ****Daniel, W. M., and D. M. Infante. *Invited*.** 2015. National Fish Habitat Partnership 2015 Inland Assessment: Conterminous United States, Alaska, and Hawaii. October National Fish Habitat Partnership Workshop, October 18-19, 2015, Sacramento, California.
- (41) ****Daniel, W. M., D. M. Infante, K. Herreman, A. R. Cooper, Y. P. Tsang, and W. W. Taylor. *Invited*.** 2015. 2015 assessment of the nation's fluvial fish habitats: Promoting conservation of fish habitats throughout the conterminous United States. 145th Annual Meeting of the American Fisheries Society, August 15-20, 2015, Portland, Oregon.
- (40) ****Daniel, W. M., D. M. Infante, J. Ross, A. R. Cooper, and K. Herreman. *Invited*.** 2015. Assessing Alaska's river systems for improved management and conservation of fish habitats and the fisheries they support. 145th Annual Meeting of the American Fisheries Society, August 15-20, 2015, Portland, Oregon.
- (39) ****Infante, D. M., W. M. Daniel, Y. P. Tsang, and D. Wieferich. *Invited*.** 2015. Improving opportunities for conserving streams through national data layers and a common spatial framework: Advances in large-scale ecological investigations of aquatic systems. 145th Annual Meeting of the American Fisheries Society, August 15-20, 2015, Portland, Oregon.

- (38) ****Infante, D. M.,** W. W. Taylor, W. M. Daniel, and Y. P. Tsang. *Invited*. 2015. Evaluating inland fisheries over large regions: Using a landscape approach to enhance conservation opportunities. 145th Annual Meeting of the American Fisheries Society, August 15-20, 2015, Portland, Oregon.
- (37) ****Tingley, R. W., D. M. Infante, W. M. Daniel, Y. P. Tsang,** and K. Herreman. *Invited*. 2015. *Invited*. Assessing Hawaii's stream habitats: Incorporation of an ecological classification of streams for improved conservation opportunities. 145th Annual Meeting of the American Fisheries Society, August 15-20, 2015, Portland, Oregon.
- (36) Tsang, Y. P., D. M. Infante, and L. Wang. 2015. *Invited*. Evaluating changes in habitat of warm-water fishes with changes in climate over large regions: Using an ecological classification to identify susceptible habitats. 145th Annual Meeting of the American Fisheries Society, August 15-20, 2015, Portland, Oregon.
- (35) **Infante, D. M.** *Invited*. 2015. Landscape influences on stream fish assemblages: Focus on a national assessment of fish habitats for the National Fish Habitat Partnership. Seminar for the Institute of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Life Sciences, May 13, 2015, Vienna, Austria.
- (34) ****Daniel, W. M.,** N. Sievert, **D. M. Infante,** C. Paukert, J. Stewart, J. Whittier, T. Wagner, K. Herreman, and Y. P. Tsang. *Invited*. 2015. FISHTAIL: Conserving stream fish habitats of the NE CSC region. 75th Midwest Fish and Wildlife Conference, February 8-11, 2015, Indianapolis, Indiana.
- (33) ****Infante, D. M.** *Invited*. 2015. Assessing condition of freshwater habitats using a landscape approach: Improving opportunities for conserving inland fisheries over large regions. Global Conference on Inland Fisheries, January 26-28, 2015, FAO Headquarters, Rome, Italy.
- (32) ****Infante, D. M.,** W. M. Daniel, K. Herreman, J. Hsiao, *Invited*. 2014. National assessment of fluvial habitats: Developing data and approaches to protect and restore rivers nationally. Restore America's Estuaries, November 1-6, 2014, National Harbor, Maryland.
- (31) ****Infante, D. M.,** W. M. Daniel, K. Herreman, J. Nohner, and W. W. Taylor. *Invited*. 2014. Enhancing assessments of river condition for improved conservation and management of fluvial fish habitat. 144th Annual Meeting of the American Fisheries Society, August 17-21, 2014, Quebec City, Quebec.
- (30) **Infante, D. M.** *Invited*. 2014. Characterizing landscape influences on stream fish assemblages: Implications for national assessment of stream habitats. Geospatial Sciences and Natural Resource Management Seminar Series, South Dakota State University, April 21, 2014, Brookings, South Dakota.
- (29) Daniel, W. M., D. M. Infante, P. Esselman, Y. P. Tsang, A. R. Cooper, D. Wiefelrich, and K. Herreman. *Invited*. 2013. Fish habitat conservation at a national scale: Biases, trends, and future directions. Society for Freshwater Science Annual Meeting, May 19-23, 2013, Jacksonville, Florida.
- (28) Tsang, Y. P., D. M. Infante, L. Wang, D. Krueger, and D. Wiefelrich. *Invited*. 2013. Projecting fish habitat changes under future climate: Hydrologically and thermally-based ecological classifications across the conterminous U.S. Society for Freshwater Science Annual Meeting, May 19-23, 2013, Jacksonville, Florida.
- (27) ****Infante, D. M.** *Invited*. 2013. National assessment of stream fish habitat change with climate: Developing data and approaches for management across large regions. National Climate Adaptation Forum, April 2-4, 2013, Boulder, Colorado.
- (26) Thornbrugh, D. J., D. M. Infante, A. Moerke, and T. O. Brenden. *Invited*. 2013. Some like it hot, some don't, stream temperatures and Michigan's fishes: Identifying management opportunities. Master's seminar series, Institute of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Life Sciences (BOKU), March 2013, Vienna, Austria.
- (25) ****Krueger, D., D. M. Infante,** K. Wehrly, Y. P. Tsang, W. Daniel, J. Breck, D. Thornbrugh, A. Cooper, D. Wiefelrich, J. Ross, R. Tingley, K. Herreman, A. David. *Invited*. 2012. Landscape ecology principles and practice: An overview of research at Michigan State University and the Institute for Fisheries Research. December, 2012, Shiga University, Otsu, Shiga Prefecture, Japan.
- (24) ****Krueger, D., D. M. Infante,** Y. P. Tsang, D. Wiefelrich, A. Cooper, L. Wang, G. Whelan. *Invited*. 2012. Assessing the effects of climate and land-use changes on Minnesota stream habitat. Presentation for the Minnesota Department of Natural Resources, Lanesboro, Minnesota.

- (23) **Infante, D. M.** *Invited*. 2012. The landscape approach for conserving and managing river systems. Charles W. Schwartz Fisheries and Wildlife Seminar Series, School of Natural Resources, University of Missouri, November 9, 2012, Columbia, Missouri.
- (22) Wieferich, D., **D. M. Infante**, A. Ostroff, L. Wang, A. Cooper, and J. Smith. *Invited*. 2012. Improving opportunities for large-scale fish habitat conservation: Data developed in support of the National Fish Habitat Action Plan. 142nd Annual meeting of the American Fisheries Society, August 19-23, 2012, St. Paul, Minnesota.
- (21) **Infante, D. M.** *Invited*. 2012. Impacts of current anthropogenic land uses on river fish across the conterminous United States: Implications for conservation and management. 6th World Fisheries Congress, May 7-11, 2012, Edinburgh, Scotland.
- (20) ** **Infante, D. M.**, P. Esselman, L. Wang, G. Whelan, C. Estes, A. Cooper, D. Wieferich, and J. Ross. *Invited*. 2012. An assessment of Alaska's fluvial resources for the National Fish Habitat Partnership: Improving management and conservation through information development and interagency cooperation. Alaska Chapter of the American Water Resource Association Annual Meeting, March 5-7, 2012, Juneau, Alaska.
- (19) ** **Infante, D. M.** *Invited*. 2012. How do we effectively inventory, report, and manage water availability and uses? Managing river resources across large regions. Alaska Chapter of the American Water Resource Association Annual Meeting, March 5-7, 2012, Juneau, Alaska.
- (18) ** Tingley III, R. W., and **D. M. Infante**. *Invited*. 2012. Hawai'i's fluvial systems: Using GIS to assess current conditions and identify management strategies in a changing climate. Hawaii Pacific GIS Conference, March 5, 2012, Honolulu, Hawaii.
- (17) ** Tingley III, R. W., **D. M. Infante**, L. Wang, and D. Schemske. *Invited*. 2011. Evaluating potential habitat for Arctic grayling (*Thymallus arcticus*) in Michigan. Michigan Department of Natural Resources Fisheries Division Research Meeting, November 1-3, 2011, Mt. Pleasant, Michigan.
- (16) **Infante, D. M.** *Invited*. 2011. Managing river systems with a landscape approach: Improving the odds for conserving Arctic grayling. Arctic Grayling Symposium & Workshop 2011: Our Conservation Challenges and Opportunities, June 7-9, 2011, Grand Prairie, Alberta, Canada.
- (15) Tingley III, R. W., **D. M. Infante**, D. Schemske, and L. Wang. *Invited*. 2011. The future of Arctic grayling in Michigan: Identifying potential habitat using a species-specific landscape approach. Arctic Grayling Symposium & Workshop 2011: Our Conservation Challenges and Opportunities, June 7-9, 2011, Grand Prairie, Alberta, Canada.
- (14) **Infante, D. M.**, and J. Nohner (lead). *Invited*. 2010 National Fish Habitat Assessment. 5th National Conference on Coastal and Estuarine Habitat Restoration, November 13-17, 2010, Galveston, Texas.
- (13) ** **Infante, D. M.** *Invited*. 2010. Update of the National Fish Habitat Action Plan: Overview, Division involvement, and benefits. Research Meeting, Fisheries Division, Michigan Department of Natural Resources and Environment, October 6, 2010, Traverse City, Michigan.
- (12) Esselman, P., **D. M. Infante**, L. Wang, A. Cooper, and W. W. Taylor. *Invited*. 2010. A national assessment of landscape influences on riverine fishes of the conterminous United States. 140th Annual Meeting of the American Fisheries Society, September 12-16, 2010, Pittsburgh, Pennsylvania.
- (11) Esselman, P., **D. M. Infante**, L. Wang, A. Cooper, and W. W. Taylor. *Invited*. 2010. Preliminary assessments of landscape sources of stress to fish habitats in Alaska and Hawaii. 140th Annual Meeting of the American Fisheries Society, September 12-16, 2010, Pittsburgh, Pennsylvania.
- (10) Nohner, J., P. Polte, P. Esselman, C. Greene, **D. M. Infante**, A. Candelmo, K. Miller, D. M. Nelson, and S. Stedman. *Invited*. 2010. The influence of inland habitat conditions on the status of estuary habitat nationally. 140th Annual Meeting of the American Fisheries Society, September 12-16, 2010, Pittsburgh, Pennsylvania.
- (9) Wang, L., **D. M. Infante**, J. Lyons, J. Stewart, and A. Cooper. *Invited*. 2010. Effects of dams in river networks on fish assemblages in non-impoundment sections of rivers in Michigan and Wisconsin. 140th Annual Meeting of the American Fisheries Society, September 12-16, 2010, Pittsburgh, Pennsylvania.
- (8) **Infante, D. M.** *Invited*. 2010. Using a landscape approach to understand and manage river systems: Improved opportunities for protection and restoration. Department of Natural Resources and Environmental Management, University of Hawai'i, Manoa, August 19, 2010, Honolulu, Hawaii.

- (7) Esselman, P., A. Cooper, D. M. Infante, L. Wang, and W. W. Taylor. *Invited*. 2009. The data and spatial framework of the National Assessment of the Status of Fish Habitat: Current status and future directions. 139th Annual Meeting of the American Fisheries Society, August 30-September 3, 2009, Nashville, Tennessee.
- (6) Ostroff, A. C., A. J. Loftus, J. Kopaska, and **D. M. Infante**. *Invited*. 2009. Use of informatics in fisheries sustainability. 139th Annual Meeting of the American Fisheries Society, August 30-September 3, 2009, Nashville, Tennessee.
- (5) ** Esselman, P., D. M. Infante, L. Wang, W. W. Taylor, and A. Cooper. *Invited*. 2009. Assessment of the status of habitat in the Nation's rivers and streams. National Fish Habitat Action Plan One-Year Out Workshop, June 23-25, 2009, Lansdowne, Virginia.
- (4) ** Whelan, G., **D. M. Infante**, and L. Wang. *Invited*. 2009. An initial assessment of the status of U.S. fish habitats. Indiana Chapter of the American Fisheries Society and Indiana lake Management Society Meeting, January 29-31, 2009, Indianapolis, Indiana.
- (3) **Infante, D. M.**, and J. D. Allan. *Invited*. 2008. The response of stream fish assemblages to local-scale habitat as influenced by landscape: A mechanistic investigation of stream fish assemblages. 138th Annual Meeting of the American Fisheries Society, August 17-21, 2008, Ottawa, Canada.
- (2) **Infante, D. M.**, and J. D. Allan. *Invited*. 2006. Links among landscape, habitat, and stream biology: Hierarchical relationships in streams of southeastern Michigan. North American Benthological Society, Annual Meeting, June 4-9, 2006, Anchorage, Alaska.
- (1) **Infante, D. M.**, and J. D. Allan. *Invited*. 2005. Natural versus anthropogenic landscape controls on stream habitat. 135th Annual Meeting of the American Fisheries Society, September 11-15, 2005, Anchorage, Alaska.

Contributed presentations

- (244) Wilmot, E., J. Wong, Y. P. Tsang, A. Lynch, **D. M. Infante**, and H. Clilverd. 2021. Characterizing mauka to makai connections for aquatic conservation on Maui. The 1st Annual E Pili Ana I Ka Moana: Capacity Building Collaboration Symposium, April 27-28, 2021, Virtual Meeting.
- (243) Wilmot, E., J. Wong, Y. P. Tsang, A. Lynch, **D. M. Infante**, and H. Clilverd. 2021. Characterizing mauka to makai connections for aquatic conservation on Maui. International Tropical Islands Water Conference, April 12-15, 2021, Virtual Meeting.
- (242) King, K., T. Wagner, M. Tate Bremigan, **D. M. Infante**, and K. Cheruvellil. 2021. Crossing ecosystem boundaries to better understand macroscale fish diversity in lakes and streams. Society for Freshwater Science Annual Meeting, May 23-27, 2021, Virtual Meeting.
- (241) ****Yu, H., A. Cooper, and D. M. Infante.** 2021. Improving species distribution model accuracy using weighted boosted regression trees. Conference on Applied Statistics in Agriculture and Natural Resources, May 17-20, 2021, Virtual Meeting.
- (240) ****Yu, H., J. Ross, and D. M. Infante.** 2020. Michigan stream flow analysis. Summary of project work for the Downstream Accounting Subcommittee of the Water Use Advisory Committee, December 3, 2020.
- (239) Clilverd, H., Y. Tsang, A. Lynch, **D. M. Infante**, A. Frazier, R. Longman, and Y. Huang. 2020. Simulation of the hydrological impacts of climate change on Hawaiian streams. American Geophysical Union Fall Meeting, December 1-17, 2020, Virtual Meeting.
- (238) ****Ross, J., D. M. Infante, A. Cooper, H. Yu, L. Wang, and K. Herreman.** 2020. Nationally consistent landscape information to support conservation of stream fish habitats across the United States. 150th Annual Meeting of the American Fisheries Society, September 14-25, 2020, Virtual Meeting.
- (237) **Yu, H., A. Cooper, and D. M. Infante.** 2020. Improving freshwater fish conservation using machine learning based species distribution models: Advantages of using abundance-weighted boosted regression trees. 150th Annual Meeting of the American Fisheries Society, September 14-25, 2020, Virtual Meeting.
- (236) King, K., M. T. Bremigan, **D. M. Infante**, and K. S. Cheruvellil. 2019. How does connectivity affect freshwater fish diversity among lakes and streams at macroscales? Poster. GLEON 21 Conference, November 4-8, 2019, Huntsville, Ontario, Canada.
- (235) King, K., M. T. Bremigan, **D. M. Infante**, and K. S. Cheruvellil. 2019. How does connectivity affect freshwater fish diversity among lakes and streams at macroscales? Environmental Science and Policy Program Symposium, Michigan State University, October 2019, East Lansing, Michigan.
- (234) ****Betances, S., J. M. Hessenauer, T. Wills, and D. M. Infante.** 2019. Enhancing efforts to conserve stream fishes by assessing and describe the value of stream habitat data. 149th Annual Meeting of the American Fisheries Society, September 29-October 3, 2019, Reno, Nevada.
- (233) ****Cooper, A. R., and D. M. Infante.** 2019. Coupling migratory fish distribution models and large dam data to prioritize fish passage restoration: A case study in the Upper Mississippi River. 149th Annual Meeting of the American Fisheries Society, September 29-October 3, 2019, Reno, Nevada.
- (232) ****Dean, E., and D. M. Infante.** 2019. The North American Freshwater Migratory Fish Database (NOAMAD): Characterizing the migratory patterns of freshwater fishes of Canada, the United States, and Mexico. 149th Annual Meeting of the American Fisheries Society, September 29-October 3, 2019, Reno, Nevada.
- (231) ****Infante, D. M., W. Daniel, A. R. Cooper, and G. Whelan.** 2019. Assessing the risk of WOTUS to stream fish habitat: Current condition of and disturbances to US headwaters. 149th Annual Meeting of the American Fisheries Society, September 29-October 3, 2019, Reno, Nevada.
- (230) **King, K., M. Tate Bremigan, D. M. Infante, and K. Cheruvellil.** 2019. Crossing scale and ecosystem boundaries to better understand macroscale fish diversity. 149th Annual Meeting of the American Fisheries Society, September 29-October 3, 2019, Reno, Nevada.
- (229) ****Ross, J., D. M. Infante, J. Whittier, J. Stewart, A. R. Cooper, W. M. Daniel, N. Sievert, K. Herreman.** 2019. Condition of stream fish habitats throughout the Mississippi River basin. 149th Annual Meeting of the American Fisheries Society, September 29-October 3, 2019, Reno, Nevada.
- (228) **Tracy, E., and D. M. Infante.** 2019. Characterizing resilience of Michigan rivers under a changing climate. 149th Annual Meeting of the American Fisheries Society, September 29-October 3, 2019, Reno, Nevada.

- (227) Tsang, Y. P., B. Martin, R. Tingley, H. Clilverd, **D. M. Infante**. 2019. Characterizing natural barriers to non-native stream fauna in Hawaii. Annual Meeting of the Society for Freshwater Science, May 19-May 23, Salt Lake City, Utah.
- (226) ****Infante, D. M., J. Whittier, J. Ross, J. Stewart, K. Herreman**. 2019. FishTail: Conserving stream fish habitats throughout the Mississippi River Basin. Webinar with US Fish and Wildlife Service (~5 participants), April 12, 2019.
- (225) ****Betances, S. J., T. C. Wills, J. M. Hessenauer, and D. M. Infante**. 2019. Improving opportunities to conserve stream fishes in Michigan: Demonstrating the value of stream fish habitat. Annual meeting of the Michigan Chapter of the American Fisheries Society, Gaylord, Michigan, March 13-15, 2019.
- (224) ****Betances, S. J., T. C. Wills, J. M. Hessenauer, and D. M. Infante**. 2019. Enhancing efforts to conserve stream fishes in Michigan: Improving the usability of habitat data collected through the MDNR Stream Status and Trends Program. Department of Fisheries and Wildlife Annual Graduate Student Research Symposium, February 22, 2019, East Lansing, Michigan.
- (223) ****Zorn, T., D. M. Infante, K. Herreman**. 2018. Catchment-scale accounting of large-quantity withdrawals in the Water Withdrawal and Assessment Process: Status and next steps. Water Use Advisory Council Meeting, Lansing, Michigan, December 19, 2018.
- (222) ****Tsang, Y. P., H. Clilverd, A. Lynch, and D. M. Infante**. 2018. Ecological responses to hydrological characteristics in Hawaii streams and their implications with changing climate. Poster. Fall Meeting of the American Geophysical Union, December 10-14, 2018, Washington, D. C.
- (221) ****Infante, D. M., J. Whittier, J. Stewart, K. Herreman, and J. Ross**. 2018. FishTail: A decision support mapper to aid in conserving stream fish habitats. Michigan Department of Natural Resources Fisheries Division Research Meeting, December 4, 2018, Charlevoix, Michigan.
- (220) ****Tracy, E., J. Nohner, G. Whelan, D. M. Infante, and K. Wehrly**. 2018. Evaluating the development of a decision support tool for lake conservation and management in the Midwest. Michigan Inland Lakes Convention, October 4-5, 2018, Grand Rapids, Michigan.
- (219) ****Chen, Y., J. J. Hoover, D. Chapman, J. R. Jackson, K. J. Kilgore, D. Chen, Z Li, Q. Phelps, M. Eggleton, D. M. Infante, K. Irons, C. Paukert, E. Rutherford, H. Zhang, D. Parrish, L. Wang**. 2018. Moving the Mississippi-Yangtze fisheries network forward: Past, current, and future. 148th Annual Meeting of the American Fisheries Society, August 19-23, 2018, Atlantic City, New Jersey.
- (218) **Dean, E., A. R. Cooper, and D. M. Infante**. 2018. Freshwater fish species migration life histories: Information to aid in conservation of stream fishes. Poster. 148th Annual Meeting of the American Fisheries Society, August 19-23, 2018, Atlantic City, New Jersey.
- (217) Martin, B., Y. P. Tsang, H. Clilverd, R. W. Tingley, **D. M. Infante, K. Herreman**, and G. R. Higashi. 2018. Characterizing the habitat use and distribution of introduced freshwater species in Hawaii. 148th Annual Meeting of the American Fisheries Society, August 19-23, 2018, Atlantic City, New Jersey.
- (216) **Ross, J., D. M. Infante, R. M. Hughes, L. Wang, B. de Freitas Terra, and K. Chen**. 2018. Advances in understanding landscape influences on freshwater habitats and biological assemblages. 148th Annual Meeting of the American Fisheries Society, August 19-23, 2018, Atlantic City, New Jersey.
- (215) ****Ross, J., D. M. Infante, J. Whittier, N. Sievert, W. M. Daniel, and K. Herreman**. 2018. Development of a decision support mapper to inform conservation of stream fish habitats throughout the Mississippi River basin. Poster. 148th Annual Meeting of the American Fisheries Society, August 19-23, 2018, Atlantic City, New Jersey.
- (214) Xiong, F., Y. Lu, H. Liu, X. Qu, W. Xia, C. Guo, **D. M. Infante, L. Wang, and Y. Chen**. 2018. Landscape stressors, habitat, and fish assemblages in the Yangtze River, China. 148th Annual Meeting of the American Fisheries Society, August 19-23, 2018, Atlantic City, New Jersey.
- (213) ****Cooper, A. R., and D. M. Infante**. 2018. Update on fish species distribution modeling for the US Geological Survey (USGS) Aquatic GAP Program. Webinar for the USGS Biogeographic Characterization Branch (~30 participants), June 27, 2018.
- (212) Carlson, A. K., W. W. Taylor, and **D. M. Infante**. 2018. Impact of changes in precipitation and groundwater on brook charr thermal habitat in Michigan streams. 9th International Charr Symposium, June 18-21, Duluth, Minnesota.

- (211) Wieferich, D., **D. M. Infante**, and G. Whelan. 2018. NFHP's National assessment of fish habitat. Instream Flow Council, Fort Collins, Colorado, April 24-26, 2018
- (210) ****Hsiao, J., D. M. Infante, Y. P. Tsang, and A. Lynch.** 2018. Characterizing spatial linkages between inland and coastal habitats for improved conservation in Maui, Hawaii. Webinar to NOAA Office of Habitat Conservation – Habitat Protection Division (~10 participants), April 4, 2018.
- (209) ****Infante, D. M., J. Whittier, J. Stewart, K. Herreman, and J. Ross.** *Invited.* 2018. FishTail: Conserving stream fish habitats throughout the Mississippi River basin. Webinar to US Fish and Wildlife Service, Region 3, and the Eastern Tallgrass Prairie and Big Rivers LCC (~20 participants), March 30, 2018.
- (208) ****Clilverd, H., Y. P. Tsang, D. M. Infante, and A. Lynch.** 2018. Long-term streamflow trends in Hawaii and implications for native stream fauna. Webinar to the National Climate Change and Wildlife Science Center program managers (~8 participants), March 30, 2018.
- (207) ****Clilverd, H., Y. P. Tsang, D. M. Infante, and A. Lynch.** 2018. Long-term streamflow trends in Hawaii and implications for native stream fauna. Presentation to the Water Resource Research Center, February 20, 2018, Honolulu, Hawaii.
- (206) **Dean, E., and D. M. Infante.** 2018. Current knowledge and research needs to improve conservation of freshwater migratory fishes throughout North America. Department of Fisheries and Wildlife Annual Graduate Student Research Symposium, February 16, 2018, East Lansing, Michigan.
- (205) ****Tracy, E., J. Nohner, G. Whelan, and D. M. Infante.** 2018. Evaluating the development and implementation of a decision support tool for lake conservation and management in the Midwest. Department of Fisheries and Wildlife Annual Graduate Student Research Symposium, February 16, 2018, East Lansing, Michigan.
- (204) ****Tracy, E., J. Nohner, G. Whelan, D. M. Infante, and K. Wehrly.** 2018. Evaluating a spatial decision support tool for lake conservation in the Midwest. Annual Meeting of the Michigan Chapter of the American Fisheries Society, Port Huron, Michigan, February 13-14, 2018.
- (203) ****Triezenberg, H., D. M. Infante, W. W. Taylor, K. Herreman, B. Riley, and B. Knudson.** 2017. Siting aquaculture: Commercial aquaculture extension engagement and suitability map development. 2017 Michigan State University Fall Extension Conference, October 24-25, 2017, Detroit, Michigan.
- (202) ****Whelan, G., W. M. Daniel, E. Dean, D. M. Infante, K. Herreman, and A. R. Cooper.** 2017. Who is doing what to trout: Insights from the National Fish Habitat Assessment. Wild Trout XII, September 26-29, 2017, West Yellowstone, Montana.
- (201) Carlson, A., W. W. Taylor, T. D. Beard, Z. Basher, **D. M. Infante**, and T. Zorn. 2017. Linking stream temperature modeling with decision-support tools for resilience-based salmonid management in a changing climate. 147th Annual Meeting of the American Fisheries Society, August 20-24, 2017, Tampa, Florida.
- (200) Carlson, A., W. W. Taylor, and **D. M. Infante.** 2017. The value of incorporating groundwater and precipitation dynamics in stream temperature modeling for achieving resilient salmonid management in a changing climate. 147th Annual Meeting of the American Fisheries Society, August 20-24, 2017, Tampa, Florida.
- (199) ****Cooper, A. R., D. M. Infante, P. Fuller, M. Neilson, Y. P. Tsang, A. McKerrow, D. Wieferich, and K. Herreman.** 2017. Distributions of fluvial fishes across the conterminous United States: Supporting conservation over large spatial extents. 147th Annual Meeting of the American Fisheries Society, August 20-24, 2017, Tampa, Florida.
- (198) ****Daniel, W. M., D. M. Infante, K. Herreman, A. R. Cooper, Y. P. Tsang, G. Whelan, and W. W. Taylor.** 2017. Applications of the 2015 National Assessment of Stream Fish Habitats: Information for enhanced decision making. 147th Annual Meeting of the American Fisheries Society, August 20-24, 2017, Tampa, Florida.
- (197) ****Tingley, R. W. III, D. M. Infante, G. Smith, and K. Herreman.** 2017. Spatial prioritization of Hawaii's stream ecosystems for native species conservation in the context of changing climate. 147th Annual Meeting of the American Fisheries Society, August 20-24, 2017, Tampa, Florida.
- (196) Üblacker, M., R. Schinegger, **W. M. Daniel, and D. M. Infante.** 2017. Human stressors and their impacts on freshwater fish communities – a cross-continental comparison of European and United States river basins. 147th Annual Meeting of the American Fisheries Society, August 20-24, 2017, Tampa, Florida.

- (195) Wehrly, K., C. Riseng, J. E. McKenna, B. Sparks-Jackson, L. Mason, E. S. Rutherford, L. Wang, and **D. M. Infante**. 2017. A condition assessment of nearshore fish habitat in the Great Lakes Fish Habitat Partnership. 147th Annual Meeting of the American Fisheries Society, August 20-24, 2017, Tampa, Florida.
- (194) Foley, M. M., F. J. Magilligan, C. E. Torgersen (presenter), J. J. Major, C. W. Anderson, P. J. Connolly, D. J. Wiefelich, P. B. Shafroth, J. E. Evans, **D. M. Infante**, L. S. Craig, and J. J. Duda. 2017. Landscape context and the biophysical response of rivers to dam removal in the United States. Annual Meeting of the Ecological Society of America, August 6-11, 2017, Portland, Oregon.
- (193) **Clilverd, H., Y. P. Tsang, D. M. Infante**, and A. Lynch. 2017. Assessing the impact of future climate on Hawaii's aquatic ecosystems. Hawaii Stream Conservation Meeting, August 1, 2017, Honolulu, Hawaii.
- (192) **Hsiao, J., D. M. Infante, Y. P. Tsang**, and K. Herreman. 2017. Spatial linkages between inland and coastal systems: Conservation implications for Hawaii's coastal habitats. Hawaii Stream Conservation Meeting, August 1, 2017, Honolulu, Hawaii.
- (191) **Tingley, R. W. III, D. M. Infante, A. R. Cooper**, and K. Herreman. 2017. Supporting conservation of Hawaii stream habitats in the context of changing climate. Hawaii Stream Conservation Meeting, August 1, 2017, Honolulu, Hawaii.
- (190) Clilverd, H., Y. P. Tsang, **D. M. Infante**, and A. Lynch. 2017. Assessing the impact of future climate on Hawaii's aquatic ecosystems. 2017 Hawaii Conservation Conference, July 18-20, Honolulu, Hawaii.
- (189) Paukert, C. P., A. J. Lynch, T. D. Beard, Y. Chen, S. J. Cooke, M. J. Cooperman, I. G. Cowx, L. Ibengwe, **D. M. Infante**, B. J. E. Meyers, N. P. Hao, I. J. Winfield. 2017. Helping managers adapt to the effects of climate change on inland fish and fisheries: Lessons learned from North America and a path forward. 50th Anniversary Symposium of the Fisheries Society of the British Isles, July 3-7, 2017, Exeter, England.
- (188) Clilverd, H., Y. P. Tsang, **D. M. Infante**, and A. Lynch. 2017. Assessing the impact of future climate on Hawaii's aquatic ecosystems. 2017 Hawaii Ecosystems Meeting, June 29-30, 2017, Hilo, Hawaii.
- (187) **Triezenberg, H., D. M. Infante, W. W. Taylor, K. Herreman**, and B. Riley. 2017. Siting aquaculture: Commercial aquaculture extension engagement and suitability map development. GIS Aquaculture Partner Meeting. April 24, 2017, East Lansing, Michigan.
- (186) **Tingley, R. W. III**, and **D. M. Infante**. 2017. Spatial prioritization of Hawaii's stream ecosystems for conservation in the context of changing climate. Hawaii Fish Habitat Partnership stakeholders webinar (~4 participants), April 13, 2017.
- (185) **Daniel, W. M., D. M. Infante** (presenter), A. R. Cooper, R. Tingley, Y. P. Tsang, K. Herreman, D. Wiefelich, W. W. Taylor. 2017. Condition of stream fish habitat across the United States. Poster. Michigan State University Agriculture and Natural Resources Week Luncheon Poster Reception. March 7, 2017, East Lansing, Michigan.
- (184) Clilverd, H. M., Y. P. Tsang, A. M. Strauch, A. Lynch, **D. M. Infante**. 2017. Assessing climate-driver changes in streamflow in the Hawaiian Islands. The Association for the Sciences of Limnology and Oceanography Annual Meeting, February 26-March 3, 2017, Honolulu, Hawaii.
- (183) **Cooper, A. R.**, and **D. M. Infante**. 2017. National Aquatic GAP Analysis: Update. Aquatic GAP Program stakeholders webinar (~8 participants). January 30, 2017.
- (182) **Herreman, K.**, B. Riley, H. Triezenberg, **D. M. Infante**. 2017. Identifying quality areas for inland aquaculture in Michigan. GIS Aquaculture Partner Meeting, January 17, 2017, Lansing, Michigan.
- (181) **Infante, D. M., W. M. Daniel, G. Whelan, K. Herreman, A. R. Cooper, R. Tingley**. 2017. 2015 National Fish Habitat Assessment Webinar. National Fish Habitat Partnership and other stakeholders webinar (~50 participants), January 13, 2017.
- (180) **Infante, D. M., W. M. Daniel, G. Whelan, K. Herreman, A. R. Cooper, R. Tingley**. 2017. 2015 National Fish Habitat Assessment Webinar. National Fish Habitat Partnership and other stakeholders webinar (~90 participants), January 6, 2017.
- (179) Tsang, Y. P., A. M. Strauch, H. M. Clilverd, **D. M. Infante**, and A. Lynch. 2016. The natural flow regime of Hawai'i streams. Poster. American Geophysical Union Fall Meeting, December 12-16, 2016, San Francisco, California.
- (178) **Paukert, C., D. M. Infante, J. Stewart, W. M. Daniel, N. Sievert, J. Whittier, K. Herreman, N. Estes, and Y. P. Tsang**. 2016. FishTail: A decision support mapper for conserving stream fish habitats of the NECSC

- region. Plains and Prairies Pothole Landscape Conservation Cooperative Science and Data Committee webinar (~15 participants), December 7, 2016.
- (177) ****Infante, D. M., W. M. Daniel, R. W. Tingley, A. R. Cooper, K. Herreman, J. Ross, Y. P. Tsang, D. Wieferich, L. Wang, and W. W. Taylor. *Invited*. 2016. 2015 assessment of the status of fluvial fish habitats for the National Fish Habitat Partnership. Midwest Glacial Lakes Partnership Science and Data Committee Meeting, November 9, 2016, East Lansing, Michigan.**
- (176) ****Paukert, C., D. M. Infante, J. Stewart, W. M. Daniel, N. Sievert, J. Whittier, K. Herreman, N. Estes, and Y. P. Tsang. FishTail: A decision support mapper for conserving stream fish habitats of the NE CSC region. Northeast Climate Science Center stakeholder webinar (~50 participants), October 12, 2016.**
- (175) **Hsiao, J., D. M. Infante, Y. P. Tsang, and A. J. Lynch. 2016. Understanding spatial linkages between terrestrial and coastal systems: Improving conservation of coastal habitats. 146th Annual Meeting of the American Fisheries Society, August 21-25, 2016, Kansas City, Missouri.**
- (174) ****Infante, D. M. 2016. Summarizing catchment information for understanding condition of stream habitats. Community for data integration project team meeting, August 3-5, 2016, Denver, Colorado.**
- (173) ****Daniel, W. M., D. M. Infante, and E. Throckmorton. 2016: Strategic coordination of quadrula species research and conservation: Support for development of a conservation plan. Gulf Coast Prairie Landscape Conservation Cooperative end-of-project webinar (~35 participants), August 3, 2016.**
- (172) ****Infante, D. M. *Invited*. 2016. Recent innovations in Aquatic GAP: Informing conservation of fluvial habitats over large regions. Aquatic GAP Analysis Program leadership webinar (~30 participants), June 28, 2016.**
- (171) ****Daniel, W. M., D. M. Infante, C. Paukert, N. Sievert, J. Stewart, J. Whittier, K. Herreman, N. Estes, and Y. P. Tsang. 2016. FISHTAIL: A decision support mapper for conserving stream fish habitats of the NECSC region. Northeast Climate Science Center stakeholder webinar (~75 participants), June 9, 2016.**
- (170) ****Infante, D. M., and W. M. Daniel. *Invited*. 2016. 2015 inland assessment for the National Fish Habitat Partnership: National results and highlights for Chesapeake Bay. Chesapeake Bay: Sustainable fisheries goal implementation team webinar (~100 participants), June 2, 2016.**
- (169) ****Daniel, W. M., D. M. Infante, and E. Throckmorton. 2016. Strategic coordination of Quadrula species research and conservation: 2nd stakeholder webinar. Webinar with the Gulf Coast Prairie Landscape Conservation Cooperative Science and Data Committee and Stakeholders (~30 participants), April 11, 2016.**
- (168) **Gibson, P., D. M. Infante, R. Tingley, K. Herreman, W. M. Daniel, and W. W. Fetzer. 2016. Influences of wetlands on stream fish assemblages: Investigation of regional trends across Michigan's Lower Peninsula. Michigan State University Undergraduate Research and Arts Forum, April 8, 2016.**
- (167) ****Tingley, R. W., D. M. Infante, A. R. Cooper, and K. Herreman. 2016. Enhancing conservation planning for Hawaiian streams under current and future threats. Hawaii Stream Conservation Workshop 2016, February 23-25, 2016, Honolulu, Hawaii.**
- (166) ****Daniel, W. M., D. M. Infante, C. Edwards, B. Kahler, and E. Throckmorton. 2016. Development of a strategic conservation plan for Quadrula species of the Gulf Coast Prairie region. 2016 Freshwater Mollusk Conservation Society Workshop, February 16-19, 2016, Shepherdstown, West Virginia.**
- (165) ****Daniel, W. M., D. M. Infante, A. R. Cooper. 2016. National fish habitat assessment's 2015 inland draft results for Alaska. Webinar for the All Alaska Fish Habitat Partnership Meeting (~50 participants), February 9, 2016.**
- (164) ****Daniel, W. M., A. R. Cooper, P. Badra, and D. M. Infante. 2016. Michigan's fluvial habitat suitability for 11 listed unionids. 76th Midwest Fish and Wildlife Conference, January 25-27, 2016, Grand Rapids, Michigan.**
- (163) ****Daniel, W. M., N. Sievert, D. M. Infante, C. Paukert, J. Stewart, J. Whittier, T. Wagner, K. Herreman, and Y. P. Tsang. 2016. Current conservation status of stream fish habitat in the Midwest and northeastern United States. 76th Midwest Fish and Wildlife Conference, January 25-27, 2016, Grand Rapids, Michigan.**
- (162) ****Fetzer, W., B. Roth, D. Clapp, R. Claramunt, D. Fielder, D. M. Infante, T. Newcomb, and T. Zorn. 2016. Spatial and temporal dynamics of nearshore fish communities in the Michigan waters of the Great Lakes. 76th Midwest Fish and Wildlife Conference, January 25-27, 2016, Grand Rapids, Michigan.**

- (161) **Sievert, N. A., Y. P. Tsang, W. Daniel, C. P. Paukert, **D. M. Infante**, J. Whittier, K. Herreman, J. Stewart, and T. Wagner. 2016. An assessment of potential changes in habitat classes due to climate change in the Northeast Climate Science Center Region. 76th Midwest Fish and Wildlife Conference, Grand Rapids, Michigan, January 25-27, 2016.
- (160) **Daniel W. M., **D. M. Infante**, and K Herreman. 2015. Western Native Trout Initiative and Desert Fish Habitat Partnership: Draft results from the NFHP 2015 inland assessment. Webinar with members of the Western Native Trout Initiative and the Desert Fish Habitat Partnership (~20 participants), December 17, 2015.
- (159) **Tingley, R. W., **D. M. Infante**, W. M. Daniel, K. M. Herreman, Y. P. Tsang, and A. R. Cooper. 2015. National Fish Habitat Partnership 2015: Hawaii Assessment. Webinar with Hawaii Fish Habitat Partnership Steering Committee (~10 participants), December 10, 2015.
- (158) **Daniel W. M., **D. M. Infante**, and A. R. Cooper. 2015. Southeast Alaska Fish Habitat Partnership results from the National Fish Habitat Partnership 2015 Inland Assessment. Webinar with Southeast Alaska Fish Habitat Partnership (~20 participants), December 3, 2015.
- (157) **Daniel W. M., and **D. M. Infante**. 2015. Strategic coordination of *Quadrula* species research and conservation. Webinar with the Gulf Coast Prairie Landscape Conservation Cooperative Science and Data Committee and Stakeholders (~30 participants), November 9, 2015.
- (156) **Stewart, J., A. Polebitski, B. Draper, K. Schoephoester, D. Blodgett, Y. P. Tsang, J. W. McKenna, D. Armstrong, and **D. M. Infante**. 2015. NorEaST Web Portal: Highlights from a multi-agency approach to manage and share continuous stream temperature data. 145th Annual Meeting of the American Fisheries Society, August 15-20, 2015, Portland, Oregon.
- (155) **Tingley, R. W., **D. M. Infante**, R. A. MacKenzie, and Y. P. Tsang. 2015. An ecological classification of Hawaiian streams: Development and implementation of a tool for conservation in a changing climate. Webinar with the Hawaii Commission on Water Resource Management (~15 participants), July 23, 2015.
- (154) **Tingley, R. W., **D. M. Infante**, R. A. MacKenzie, and Y. P. Tsang. 2015. An ecological classification of Hawaiian streams. Webinar with the Hawaii Fish Habitat Partnership Steering Committee (~10 participants), July 21, 2015.
- (153) Tingley, R. W., **D. M. Infante**, R. A. MacKenzie, and Y. P. Tsang. 2015. An ecological classification of Hawaiian streams: Development and implementation of a tool for conservation in a changing climate. Annual Meeting of the Association for Tropical Biology and Conservation, July 12-16, 2015, Honolulu, Hawaii.
- (152) Tsang, Y. P., **D. M. Infante**, R. W. Tingley, and K. Herreman. 2015. Prioritizing conservation lands in the Hawaiian Islands: Implications for management in freshwater ecosystems in the face of climate change. Annual Meeting of the Association for Tropical Biology and Conservation, July 12-16, 2015, Honolulu, Hawaii.
- (151) **Daniel, W. M., **D. M. Infante**, and K. Herreman. 2015. NFHP 2015 creation of habitat condition classes. Webinar with National Fish Habitat Partnership Science and Data Committee (~20 participants), June 19, 2015.
- (150) Schlee, K. M., A. J. Lynch, W. W. Taylor, **D. M. Infante**, E. F. Hain, S. A. C. Nelson, and T. D. Beard. 2015. The potential impact of climate change on brook trout (*Salvelinus fontinalis*) thermal habitat in their native range in the United States. Advances in the population ecology of stream salmonids – IV, May 25-29, 2015, Girona, Spain.
- (149) **Daniel, W. M., N. Sievert, **D. M. Infante**, C. Paukert, J. Stewart, J. Whittier, T. Wagner, K. Herreman, Y. P. Tsang, and D. Kruger. *Invited*. 2015. FISHTAIL: A decision support mapper for conserving stream fish habitats of the NE CSC region. Northeast Climate Science Center Colloquium Webinar (~30 participants), May 11, 2015.
- (148) **Daniel, W. M., and **D. M. Infante**. 2015. 2015 National inland assessment of fish habitats for the National Fish Habitat Partnership: Conterminous United States, Alaska, and Hawaii. Annual Meeting of the National Fish Habitat Partnership Science and Data Committee, April 14-15, 2015, San Marcos, Texas.
- (147) ****Infante, D. M.**, and W. M. Daniel. 2015. Approach for generating condition scores for streams in the conterminous United States. Webinar with Great Lakes Aquatic Habitat Framework working group (~15 participants), April 13, 2015.

- (146) ****Infante, D. M., R. W. Tingley, and Y. P. Tsang.** 2015. National Fish Habitat Partnership Hawaii Planning Meeting: Project updates and early plans for 2015 assessment. Webinar with Hawaii Fish Habitat Partnership Steering Committee (~10 participants), March 27, 2015.
- (145) **Daniel, W. M., A. R. Cooper, P. Badra, and D. M. Infante.** 2015. Predicting statewide habitat suitability for 11 of Michigan's listed unionids. Freshwater Mollusk Conservation Society Annual Meeting, March 22-26, 2015, St. Charles, Missouri.
- (144) ****Daniel, W. M., K. McGraw, D. M. Infante, and G. Whelan.** 2015. Working towards a large-scale assessment of mollusks: Improving conservation of freshwater snails and mussels nationally. Freshwater Mollusk Conservation Society Annual Meeting, March 22-26, 2015, St. Charles, Missouri.
- (143) ****Daniel, W. M., D. M. Infante, J. Ross, and K. Herreman.** 2015. Southeast Alaskan assessment for the National Fish Habitat Partnership. Webinar with Southeast Alaskan Fish Habitat Partnership (~10 participants), February 5, 2015.
- (142) ****Infante, D. M., and W. M. Daniel.** 2015. National inland assessment of fish habitats for the National Fish Habitat Partnership. Webinar for the Great Lakes Aquatic Habitat Framework Assessment Team (~10 participants), January 16, 2015.
- (141) ****Daniel, W. M., D. M. Infante, J. Ross, and K. Herreman.** 2015. Alaskan inland assessment for the National Fish Habitat Partnership. Webinar with multiple Alaskan Fish Habitat Partnerships (~20 participants), January 9, 2015.
- (140) ****Tsang, Y. P., and D. M. Infante.** National Aquatic GAP Analysis. Aquatic GAP Program stakeholders webinar (~10 participants). January 6, 2015.
- (139) ****Infante, D. M.** 2014. Using a landscape approach to assess condition of fluvial systems: Focus on a national assessment of fish habitats for the National Fish Habitat Partnership. Michigan Department of Natural Resources Fisheries Division Annual Research Meeting, December 15-16, 2014, Alpena, Michigan.
- (138) ****Tsang, Y. P., D. M. Infante, and J. Stewart.** 2014. Application: Characterizing stream fish response to thermal metrics. NorEaST Web Portal Demo-User Testing and Development Workshop, December 9-10, 2014, Middleton, Wisconsin.
- (137) ****Infante, D. M., R. W. Tingley, and Y. P. Tsang.** 2014. Working towards 2015 assessment of Hawaiian fluvial habitats in support of the National Fish Habitat Partnership. Webinar with the Hawaii Fish Habitat Partnership Steering Committee (~15 participants), November 20, 2014.
- (136) ****Tingley, R. W., D. M. Infante, R. MacKenzie, and Y. P. Tsang.** 2014. An ecological classification for Hawaii's stream reaches: Improving efforts to assess current and future conditions. Webinar with the Hawaii Fish Habitat Partnership Steering Committee (~15 participants), November 20, 2014.
- (135) ****Tsang, Y. P., D. M. Infante, R. W. Tingley, and K. Herreman.** 2014. Prioritizing conservation lands throughout the main Hawaiian Islands. Webinar with the Hawaii Fish Habitat Partnership Steering Committee (~15 participants), November 20, 2014.
- (134) ****Tsang, Y. P., D. M. Infante, K. Herreman, and J. Stewart.** 2014. Calculating temperature summary statistics. Water Resources Research Center Workshop on Continuous Stream Temperature and Flow Monitoring Webinar (~50 participants), November 5-6, 2014.
- (133) ****Tsang, Y. P., D. M. Infante, K. Herreman, and J. Stewart.** *Invited.* 2014. Application: Characterizing fish response to thermal characteristics of streams, part of: NorEaST: A stream temperature inventory network and decision support metadata mapper. Northeast Climate Science Center Colloquium Webinar (~50 participants), October 29, 2014.
- (132) ****Stewart, J. S., A. Polebitski, B. Draper, Y. P. Tsang, D. Armstrong, D. M. Infante, J. E. McKenna, and K. Schoephoester.** 2014. NorEaST: A stream temperature web portal for evaluating climate-change effects on streams of the USGS Northeast Climate Science Center region. National Workshop on Large Landscape Conservation. October 23-24, 2014, Washington, D.C.
- (131) ****Daniel, W. M., D. M. Infante, J. Ross, K. Herreman, and C. Estes.** 2014. Influence of catchment-scale landscape factors on fishes of Southeast Alaska: Determining condition of fluvial fish habitat for the National Fish Habitat Partnership 2015 Assessment. Alaska Chapter of the American Fisheries Society Annual Meeting, October 20-24, 2014, Juneau, Alaska.

- (130) Ross, J., **D. M. Infante**, D. Martin, and M. Rey. 2014. Geomorphic, riparian, and historical timber harvest influences on aquatic habitat in anadromous streams of southeastern Alaska. Alaska Chapter of the American Fisheries Society Annual Meeting, October 20-24, 2014, Juneau, Alaska.
- (129) **Stewart, J. S., and **D. M. Infante**. *Invited*. 2014. Enhancing decision making for managing fluvial habitats: Current status and future opportunities with FishVis. Great Lakes Fishery Trust Aquatic Connectivity Workshop, September 4-5, 2014, Lansing, Michigan.
- (128) **Daniel, W. M., **D. M. Infante**, L. Wang, K. Herreman, A. R. Cooper, D. Wieferich, J. Ross, R. Tingley, and Y. P. Tsang. 2014. 2015 National assessment of fluvial fish habitats: Improving opportunities for conservation and management. 144th Annual Meeting of the American Fisheries Society, August 17-21, 2014, Quebec City, Quebec.
- (127) **Stewart, J., J. E. McKenna, B. Draper, K. Schoephoester, D. Armstrong, A. Polebitski, **D. M. Infante**, and Y. P. Tsang. 2014. NorEaST web portal: Stream temperature mapper and data application. Webinar regarding Data Infrastructure and Monitoring Networks (~40 participants). June 18, 2014.
- (126) Fetzer, W., B. Roth, **D. M. Infante**, and D. Clapp. 2014. Assessing long-term nearshore fish community changes in the Michigan waters of the Great Lakes. 57th Annual Conference of the International Association of Great Lakes Research, May 26-30, 2014, Hamilton, Ontario.
- (125) **Tsang, Y. P., and **D. M. Infante**. 2014. National Aquatic GAP Analysis. Aquatic GAP Program stakeholders webinar (~15 participants). May 21, 2014.
- (124) Tingley III, R. W., **D. M. Infante**, R. A. Mackenzie, and A. M. Strauch. 2014. Impacts of changing climate on the endemic Hawaiian shrimp *Atyoida bisulcata*: Decreased flow effects on population size and structure. Annual Meeting of the Society for Freshwater Science, May 18-23, 2014, Portland, Oregon.
- (123) Thornbrugh, D., and **D. M. Infante**. 2014. Landscape effects on fluvial fish assemblage structure: Region-specific response to human land uses. Annual Meeting of the Society for Freshwater Science, May 18-23, 2014, Portland, Oregon.
- (122) **Krueger, D., C. Paukert, **D. M. Infante**, T. Wagner, J. Whittier, and J. Stewart. 2014. A decision support mapper for conserving stream fish habitats of the NECSC region. Northeast Climate Science Center stakeholder webinar (~50 participants), May 7, 2014.
- (121) Tsang, Y. P., **D. M. Infante**, R. Oram, T. Acoba, and K. Herreman. 2014. Examining the physical and spatial linkage among terrestrial and coastal systems. Ocean Sciences Meeting, February 23-28, Honolulu, Hawaii.
- (120) **Daniel, W., **D. M. Infante**, A. R. Cooper. 2014. Working towards the National Fish Habitat Partnership's 2015 Inland Assessment. National Fish Habitat Partnership Science and Data Committee Webinar (~30 participants), February 11, 2014.
- (119) **McKenna, J. E., J. Stewart, J. Lyons, and **D. M. Infante**. 2014. Tools for evaluation of climate change effects on fish habitat. Annual Meeting of the New York Chapter of the American Fisheries Society, February 5-7, Geneva, New York.
- (118) ****Infante, D. M.**, C. Paukert, J. Stewart, J. Whittier, T. Wagner, and D. Krueger. 2013. A decision support mapper for conserving stream fish habitats of the NECSC region. Upper Midwest and Great Lakes Landscape Conservation Cooperative Stakeholder Workshop, November 6-7, 2013, Middleton, Wisconsin.
- (117) Cooper, A. R., **D. M. Infante**, L. Wang, and D. Wieferich. 2013. Fragmentation by dams: Spatial measures of dam impacts on streams of the conterminous US. 143rd Annual Meeting of the American Fisheries Society, September 8-12, 2013, Little Rock, Arkansas.
- (116) **Covert, A., J. Lyons, J. Stewart, J. McKenna Jr., and **D. M. Infante**. 2013. Identifying vulnerabilities of riverine fishes to climate change in the Great Lakes region. 143rd Annual Meeting of the American Fisheries Society, September 8-12, 2013, Little Rock, Arkansas.
- (115) Daniel, W., **D. M. Infante**, P. Esselman, R. M. Hughes, Y. P. Tsang, D. Wieferich, A. Cooper, K. Herreman, L. Wang, and W. W. Taylor. 2013. Fish community threshold response associated with coal and mineral mines in catchments. 143rd Annual Meeting of the American Fisheries Society, September 8-12, 2013, Little Rock, Arkansas.
- (114) **Herreman, K., J. Ross, **D. M. Infante**, W. Daniel, A. R. Cooper, and D. Wieferich. 2013. Catchment creation and data attribution for stream reaches in Southern Alaska: Generating data to facilitate stream

- research and management. 143rd Annual Meeting of the American Fisheries Society, September 8-12, 2013, Little Rock, Arkansas.
- (113) Krueger, D., **D. M. Infante**, K. Herreman, W. Daniel, and S. Allen. 2013. Assessment of Columbia River salmonid populations using a landscape approach: An application for the National Fish Habitat Partnership. 143rd Annual Meeting of the American Fisheries Society, September 8-12, 2013, Little Rock, Arkansas.
- (112) ****McKenna, J.**, M. Slattery, J. Stewart, D. Wieferich, D. Krueger, and **D. M. Infante**. 2013. Identifying vulnerabilities of riverine habitat and fishes to climate change: Flow. 143rd Annual Meeting of the American Fisheries Society, September 8-12, 2013, Little Rock, Arkansas.
- (111) Pracheil, B. M., S. R. Januchowski-Hartley, L. A. Winslow, A. R. Cooper, P. B. McIntyre, and **D. M. Infante**. 2013. Movements of a mega-fish across its species range. 143rd Annual Meeting of the American Fisheries Society, September 8-12, 2013, Little Rock, Arkansas.
- (110) Ross, J., **D. M. Infante**, D. Martin, and K. Herreman. 2013. Relating landscape factors to in-stream patterns of large wood in anadromous streams of southeast Alaska. 143rd Annual Meeting of the American Fisheries Society, September 8-12, 2013, Little Rock, Arkansas.
- (109) ****Stewart, J.**, N. Estes, J. Bruce, J. Lyons, J. McKenna, **D. M. Infante**, S. A. Covert, D. Wieferich, D. Krueger, and M. Slatterly. 2013. FishVis: A web-based decision support mapper for understanding the response of fish species and stream temperature to climate change in the Great Lakes region. 143rd Annual Meeting of the American Fisheries Society, September 8-12, 2013, Little Rock, Arkansas.
- (108) ****Stewart, J.**, A. Polebitski, B. Draper, D. Armstrong, Y. P. Tsang, **D. M. Infante**, J. McKenna, K. Schoephoester. 2013. NorEaST: A stream temperature inventory mapper and web portal for evaluating climate change effects on New England, Mid Atlantic and Great Lakes States streams. 143rd Annual Meeting of the American Fisheries Society, September 8-12, 2013, Little Rock, Arkansas.
- (107) Tingley, R. W. III, **D. M. Infante**, R. MacKenzie, Y. P. Tsang, and A. M. Strauch. 2013. An ecological classification approach for Hawaiian stream reaches: Improving efforts to assess current and future conditions. 143rd Annual Meeting of the American Fisheries Society, September 8-12, 2013, Little Rock, Arkansas.
- (106) Tingley, R. W. III, R. MacKenzie, **D. M. Infante**, and A. M. Strauch. 2013. Trends in *Atyoida bisulcata* populations and habitat utilization. Hawaii Ecosystems Meeting, July 8-9, 2013, Hilo, Hawaii.
- (105) ****Infante, D. M.** 2013. Assessing the Nation's fish habitat: Data, approaches, and steps for 2015. Aquatic GAP Program Stakeholders Webinar (~15 participants), June 17, 2013.
- (104) Tsang, Y. P., **D. M. Infante**, L. Wang, D. Krueger, and D. Wieferich. 2013. Evaluating climate change impact on fluvial fish habitats through understanding hydrological and thermal response of fish species across the conterminous United States. 13th Annual American Ecological Engineering Society Meeting, June 10-12, 2013, East Lansing, Michigan.
- (103) ****Tsang, Y. P.**, D. Krueger, W. Herb, and **D. M. Infante**. *Invited*. 2013. Fish habitat and climate change: A coarse scale national assessment with finer scale assessment of Midwestern streams and lakes (Part 2 of 2). National Climate Change and Wildlife Science Center Climate Change Science and Management Webinar Series (~70 participants), May 9, 2013.
- (102) ****Krueger, D. M.**, J. S. Stewart, L. Wang, **D. M. Infante**, J. Lyons, J. McKenna, K. Wehrly, A. Covert, D. Wieferich, S. Westenbroek, S. Niemela, M. Mitro, J. Bruce, and N. Estes. 2013. Assessing Midwest stream fish habitat in the face of a changing climate: An adaptive management approach using the FishVis mapping tool. National Climate Adaptation Forum, April 2-4, 2013, Boulder, Colorado.
- (101) ****Ostroff, A.**, W. M. Daniel, **D. M. Infante**, and D. Wieferich. 2012. National Fish Habitat Partnership call for fish data for 2015 Assessment. Webinar presentation for members of National Fish Habitat Partnerships (~50 participants), December 12, 2012.
- (100) ****Tsang, Y. P.**, J. Stewart, and **D. M. Infante**. 2012. A stream temperature inventory network and decision support metadata mapper for north east U.S. 73rd Midwest Fish and Wildlife Conference, December 9-12, Wichita, Kansas.
- (99) **Infante, D. M.** 2012. The view from up here: Applications of the landscape approach for understanding and conserving fluvial ecosystems. Department of Fisheries and Wildlife Graduate Student Speaker Symposium, October 26, 2012, East Lansing, Michigan.

- (98) Cooper, A. R., D. M. Infante, and L. Wang. 2012. Impacts of dams on fluvial fish assemblages in Michigan, Wisconsin, and Minnesota: Consideration of multiple measures of fragmentation and connectivity. 142nd Annual meeting of the American Fisheries Society, August 19-23, 2012, St. Paul, Minnesota.
- (97) ** **Infante, D. M.** 2012. National assessment of fish habitats for the National Fish Habitat Action Plan (NFHAP). 142nd Annual meeting of the American Fisheries Society, August 19-23, 2012, St. Paul, Minnesota.
- (96) Januchowski-Hartley, S. R., P. McIntyre, M. Diebel, P. Doran, and **D. M. Infante**. 2012. Development of a comprehensive instream barrier dataset for the Great Lakes Basin. 142nd Annual meeting of the American Fisheries Society, August 19-23, 2012, St. Paul, Minnesota.
- (95) Krueger, D. M., L. Wang, D. M. Infante, and Y. P. Tsang. 2012. Fish habitat in Midwestern streams: How forecasting tools can help managers prepare for a changing climate. 142nd Annual meeting of the American Fisheries Society, August 19-23, 2012, St. Paul, Minnesota.
- (94) Ross, J., D. M. Infante, D. Martin, R. Grotefendt, and M. Rey. 2012. Evaluating current condition of fish habitat in streams of second growth watersheds in southeast Alaska: Ensuring sustainability of timber resources and anadromous fisheries. 142nd Annual meeting of the American Fisheries Society, August 19-23, 2012, St. Paul, Minnesota.
- (93) Tsang, Y. P., D. M. Infante, L. Wang, D. Krueger, and D. Wiefelich. 2012. A framework of ecological classification that demonstrates the hydrological and thermal variance of current fish fluvial habitats across the conterminous United States. 142nd Annual meeting of the American Fisheries Society, August 19-23, 2012, St. Paul, Minnesota.
- (92) Tingley III, R. W., D. M. Infante, R. MacKenzie, A. Strauch, and P. Foulk. 2012. The impact of altered stream flow on the health and dynamics of an endemic amphidromous shrimp. 2012 Hawai'i Conservation Conference, July 31-August 2, 2012, Honolulu, Hawaii.
- (91) ** **Infante, D. M.** 2012. Update of the National Fish Habitat Action Plan: Potential Data for WGA Crucial Habitat Project. WEBINAR presentation for Western Governors Association (~30 participants), June 25, 2012.
- (90) ** **Infante, D. M.** 2012. Spatial framework for: A regional decision support tool for identifying vulnerabilities of riverine habitat and fishes to climate change. Stakeholders Workshop, June 20-21, 2012, Ann Arbor, Michigan.
- (89) ** MacKenzie, R. A., R. W. Tingley III, and **D. M. Infante**. 2012. Impacts of climate change on Hawaiian stream ecological function: Project Update. WEBINAR presentation for Hawaii Fish Habitat Partnership Steering Committee (~20 participants), May 9, 2012.
- (88) ** Tingley III, R. W., D. M. Infante, and R. MacKenzie. 2012. Vulnerability assessment of Hawaiian streams to changing flow regimes: A state-wide decision support tool for habitat restoration. WEBINAR presentation for Hawaii Fish Habitat Partnership Science and Data Committee (~15 participants), May 1, 2012.
- (87) David, A., D. M. Infante, and Y. P. Tsang. 2012. High times and dry times: Changes in flow of Hawaiian streams with implications to Hawaii's stream organisms. Michigan State University Undergraduate Research and Arts Forum, April 13, 2012.
- (86) ** **Infante, D. M.** 2012. Update to the National Fish Habitat Action Plan Science and Data Committee from the Inland Assessment Team. Presentation for the Annual National Fish Habitat Action Plan Science and Data Committee Meeting, April 3-5, 2012, Kerr, Texas.
- (85) Ross, J., D. M. Infante, D. Martin, R. Grotefendt, and M. Rey. 2012. Evaluating aquatic habitat in anadromous streams draining second growth watersheds of southeast Alaska. Alaska Chapter of the American Water Resource Association Annual Meeting, March 5-7, 2012, Juneau, Alaska.
- (84) Ross, J., D. M. Infante, D. Martin, R. Grotefendt, and M. Rey. 2012. Evaluating fish habitat in anadromous streams draining Sealaska owned land: Has habitat been maintained 30 years after riparian buffer harvest? Michigan State University Graduate Student Research Symposium, February 24, 2012, East Lansing, Michigan.

- (83) Thornbrugh, D., **D. M. Infante**, A. Moerke, and T. Brenden. 2011. Some like it hot some don't. Stream temperatures and Michigan fishes: Identifying management opportunities in the face of environmental changes. Meeting of the Red Cedar Fly Fishers, December 13, 2011, Okemos, Michigan.
- (82) Krueger, D. M., L. Wang, **D. M. Infante**, Y. P. Tsang, and G. Whelan. 2011. Assessing the impact of climate and land use change on river habitat in the Midwestern United States. International Congress for Conservation Biology, 25th Annual Meeting, December 5-9, 2011, Auckland, New Zealand.
- (81) Tsang, Y. P., **D. M. Infante**, L. Wang, D. Krueger, and D. Wiefelrich. 2011. Developing linkages between fish metrics and fluvial variation to explore responses of stream fish communities to climate change across the conterminous United States. American Geophysical Union Meeting, December 5-9, 2011, San Francisco, California.
- (80) **** Infante, D. M.** 2011. Science and data needs for improving the initial assessment of fish habitat in Hawai'i, 2011-2012. Webinar presentation for Hawaii Fish Habitat Partnership (~12 participants), October 13, 2011.
- (79) Cooper, A., **D. M. Infante**, L. Wang, P. Esselman, and J. Breck. 2011. Viewing river fragmentation across the conterminous United States for improved conservation and management of dendritic systems. American Fisheries Society, 141st Annual Meeting, September 4-8, 2011, Seattle, Washington.
- (78) **Infante, D. M.**, Y. P. Tsang (lead), L. Wang, D. Krueger, and D. Wiefelrich. 2011. Vulnerability of river systems to climate changes across the conterminous United States. American Fisheries Society, 141st Annual Meeting, September 4-8, 2011, Seattle, Washington.
- (77) Krueger, D. M., L. Wang, **D. M. Infante**, Y. P. Tsang, D. Wiefelrich, and A. Cooper. 2011. Assessing the impact of climate and land-use change on Midwest river systems. American Fisheries Society, 141st Annual Meeting, September 4-8, 2011, Seattle, Washington.
- (76) MacKenzie, R., R. W. Tingley III, A. M. Strauch, P. Foulk, C. P. Giardina, G. L. Bruland, C. Heider, and **D. M. Infante**. 2011. Climate change and Pacific Island water resources. American Fisheries Society, 141st Annual Meeting, September 4-8, 2011, Seattle, Washington.
- (75) Thornbrugh, D., **D. M. Infante**, T. Brenden, and L. Wang. 2011. Effects of temperature on functional relationships among Michigan's fluvial fish assemblages. American Fisheries Society, 141st Annual Meeting, September 4-8, 2011, Seattle, Washington.
- (74) Wehrly, K., L. Wang, **D. M. Infante**, C. Geddes, A. Cooper, L. Stanfield, and E. S. Rutherford. 2011. Assessing landscape condition in the Laurentian Great Lakes Basin. American Fisheries Society, 141st Annual Meeting, September 4-8, 2011, Seattle, Washington.
- (73) Allan, J. D., P. B. McIntyre, B. Halpern, G. Boyer, A. Buchsbaum, A. Burton, L. Campbell, L. Chadderton, J. Ciborowski, P. Doran, T. Eder, R. Hecky, **D. M. Infante**, L. Johnson, D. Lodge, J. Read, E. Rutherford, D.D. P. Smith, S. Sowa, A. Steinman, C. Joseph, and J. Fenner. 2011. Prioritizing restoration and conservation opportunities in the Great Lakes. Coastal Zone Conference, July 17-21, 2011, Chicago, Illinois.
- (72) Krueger, D. M., L. Wang, **D. M. Infante**, G. Whelan, Y. P. Tsang, D. Wiefelrich, and A. Cooper. 2011. Stream temperature and flow modeling in Midwest river systems: An approach to assess vulnerability of fish habitat to climate and land use changes. Michigan Chapter of the American Fisheries Society Meeting, April 6-7, 2011, Petoskey, Michigan.
- (71) Tsang, Y. P., **D. M. Infante**, L. Wang, D. Krueger, and D. Wiefelrich. 2011. An approach for assessing vulnerability of rivers in the United States to projected climate changes: Relevance to Michigan. Michigan Chapter of the American Fisheries Society Meeting, April 6-7, 2011, Petoskey, Michigan.
- (70) **Infante, D. M.** 2011. A spatial framework for managing Hawai'i's aquatic resources: Improved conservation and restoration opportunities in a changing world. Hawaii Water Resources Meeting, March 21, 2011, Hilo, Hawaii.
- (69) Tingley III, R. W., R. MacKenzie, **D. M. Infante**, and A. M. Strauch. 2011. Life history characteristics and habitat selection of 'Opae kala'ole over a strong precipitation gradient: Implications for the future. Hawai'i Water Resources Meeting, March 21, 2011, Hilo, Hawaii.
- (68) Cooper, A., **D. M. Infante**, and L. Wang. 2011. Fragmentation by dams: Assessing river connectivity for the conterminous U.S. Michigan State University Graduate Student Research Symposium, February 25, 2011, East Lansing, Michigan.

- (67) Thornbrugh, D., **D. M. Infante**, and T. Brenden. 2011. Effects of temperature on relationships among Michigan's fluvial fish assemblages. Michigan State University Graduate Student Research Symposium, February 25, 2011, East Lansing, Michigan.
- (66) Tingley III, R. W., **D. M. Infante**, J. Fenner, A. Cooper, P. Esselman, and L. Wang. 2011. Hawai'i's fluvial systems: Assessing current conditions and identifying future research needs. Michigan State University Graduate Student Research Symposium, February 25, 2011, East Lansing, Michigan.
- (65) ****Infante, D. M.**, Y. P. Tsang, L. Wang, D. Krueger, D. Wieferich, and R. W. Tingley III. 2011. National fish habitat vulnerability assessment to climate and land use change: An overview. Climate Change and Fish Habitat Project Meeting, February 23, 2011, Columbia, Missouri.
- (64) ****Krueger, D. M.**, L. Wang, **D. M. Infante**, Y. P. Tsang, D. Wieferich. 2011. Assessing the impact of climate and land use change on Midwest river systems. Climate change and fish habitat project meeting, February 23, 2011, Columbia, Missouri.
- (63) ****Tsang, Y. P.**, **D. M. Infante**, L. Wang, D. Krueger, D. Wieferich, and R. W. Tingley III. 2011. National fish habitat vulnerability assessment to climate and land use change. Climate Change and Fish Habitat Project Meeting, February 23, 2011, Columbia, Missouri.
- (62) Whittier, J., C. Paukert, **D. M. Infante**, E. Varela-Acevedo, B. Pijanowski, S. Hostetler, L. Wang, L. Johnson, and T. Wagner. 2010. Assessing how the nation's fish habitats respond to climate and land use changes: A multi-scale approach. 71st Midwest Fish and Wildlife Conference, December 12-15, 2010, Minneapolis, Minnesota.
- (61) ****Infante, D. M.**, R. W. Tingley III, J. Fenner, A. Cooper, P. Esselman, L. Wang, and W. W. Taylor. 2010. Initial Hawai'i Inland Assessment. Conference Call with Land Based Pollution Threats to Coral Reefs Local Action Strategy Team Members (~5 participants), October 27, 2010, East Lansing, Michigan.
- (60) ****Esselman, P.**, **D. M. Infante**, L. Wang, W. W. Taylor, A. Cooper, R. W. Tingley III, D. Wieferich, J. Fenner, D. Thornbrugh, and J. Ross. 2010. An assessment of fish habitat condition for United States streams and rivers. Webinar presentation for Western National Fish Habitat Action Plan Partnerships (~50 participants), September 30, 2010.
- (59) ****Esselman, P.**, **D. M. Infante**, L. Wang, W. W. Taylor, A. Cooper, R. W. Tingley III, D. Wieferich, J. Fenner, D. Thornbrugh, and J. Ross. 2010. An assessment of fish habitat condition for United States streams and rivers. Webinar presentation for Eastern National Fish Habitat Action Plan Partnerships (~50 participants), September 24, 2010.
- (58) ****Esselman, P.**, **D. M. Infante**, L. Wang, W. W. Taylor, A. Cooper, R. W. Tingley III, D. Wieferich, J. Fenner, D. Thornbrugh, and J. Ross. 2010. An assessment of fish habitat condition for United States streams and rivers. National Fish Habitat Action Plan Science and Data Committee Meeting, September 16, 2010, Pittsburgh, Pennsylvania.
- (57) **Infante, D. M.**, P. Esselman, L. Wang, W. W. Taylor, A. R. Cooper, and A. C. Ostroff. 2010. Assessing the nation's fluvial systems using a landscape approach: Improving opportunities for protection and restoration. 140th Annual Meeting of the American Fisheries Society, September 12-16, 2010, Pittsburgh, Pennsylvania.
- (56) **** Infante, D. M.**, R. W. Tingley III, J. Fenner, A. R. Cooper, P. Esselman, L. Wang, and W. W. Taylor. 2010. Update: Initial Hawaiian Fish Habitat Assessment for the Hawaii Fish Habitat Partnership Steering Committee. Hawaii Fish Habitat Partnership Steering Committee Meeting, August 3, 2010, Honolulu, Hawaii.
- (55) **Infante, D. M.**, R. W. Tingley III, J. Fenner, A. R. Cooper, P. Esselman, L. Wang, and W. W. Taylor. 2010. Developing a landscape-based disturbance index for aquatic systems of the Hawaiian Islands. Hawaii Ecosystems Meeting, July 7, 2010, Hilo, Hawaii.
- (54) ****Esselman, P.**, **D. M. Infante**, L. Wang, W. W. Taylor, and A. R. Cooper. 2010. Update: An initial assessment of landscape disturbance to fish habitats in Alaska, USA. Webinar Presentation for the Alaskan Partnerships of the National Fish Habitat Action Plan (~50 participants), June 30, 2010.
- (53) **** Infante, D. M.**, R. W. Tingley III, J. Fenner, A. R. Cooper, P. Esselman, L. Wang, and W. W. Taylor. 2010. Update of the Initial Hawaiian Fish Habitat Assessment: Disturbance variables, analytical approach, and priority reef assessment ideas. Hawaii Fish Habitat Partnership Science and Data Committee Meeting. June 29, 2010, Honolulu, Hawaii.

- (52) List, M., and **D. M. Infante**. 2010. River study. Final Presentations for Biology Class, Laingsburg High School, May 3, 2010.
- (51) ** Esselman, P., **D. M. Infante**, L. Wang, W. W. Taylor, and A. R. Cooper. 2010. An initial assessment of landscape disturbance to fish habitats in Alaska, USA. Webinar Presentation for the Alaskan Partnerships of the National Fish Habitat Action Plan (~50 participants), April 13, 2010.
- (50) Tingley III, R. W., **D. M. Infante**, and D. Schemske. 2010. Identification and evaluation of fluvial habitat for Arctic grayling (*Thymallus arcticus*) in Michigan. Meeting of the Red Cedar Fly Fishers, April 13, 2010, Okemos, Michigan.
- (49) Esselman, P., **D. M. Infante**, L. Wang, W. W. Taylor, and A. R. Cooper. 2010. The spatial framework and results of the initial National Assessment of the Status of Fish Habitat. International Association of Landscape Ecology, April 5-9, 2010, Athens, Georgia.
- (48) ** Esselman, P., **D. M. Infante**, L. Wang, W. W. Taylor, and A. R. Cooper. 2010. An initial assessment of the status of habitat in the Nation's rivers and streams. National Fish Habitat Action Plan Reservoir Partnership Science Team Meeting, February 26, 2010, Asheville, North Carolina.
- (47) Williams, M., **D. M. Infante**, and D. Hayes. 2010. Effects of the Stronach Dam removal on brown and rainbow trout movement patterns in the Pine River. Michigan State University Graduate Student Research Symposium, February 19, 2010.
- (46) ** Esselman, P., A. Cooper, **D. M. Infante**, L. Wang, and W. W. Taylor. 2010. The data and spatial framework of the national assessment of the status of river fish habitat. Webinar presentation for U.S. Army Corps of Engineers (~20 participants), January 12, 2010.
- (45) ** Esselman, P., A. Cooper, **D. M. Infante**, L. Wang, and W. W. Taylor. 2009. Data and spatial framework of the National Assessment of Fish Habitat. Webinar presentation for NOAA's Coastal Restoration Center (~10 participants), November 23, 2009.
- (44) Thornbrugh, D. J. and **D. M. Infante**. 2009. Structure of fish assemblages along environmental gradients. The Partnership for Ecosystem Research and Management (PERM) meeting at Michigan State University, October 30, 2009, East Lansing, Michigan.
- (43) **Infante, D. M.**, P. Esselman, L. Wang, W. W. Taylor, and A. R. Cooper. 2009. Update: National Assessment of Fish Habitats. Climate Change and Fish Habitat Project Meeting, October 19-20, 2009, Denver, Colorado.
- (42) ** Esselman, P., **D. M. Infante**, L. Wang, W. W. Taylor, and A. R. Cooper. 2009. An initial assessment of the status of fish habitat in the Nation's rivers and streams. National Fish Habitat Action Plan Science and Data Committee Meeting, September 3, 2009, Nashville, Tennessee.
- (41) Wehrly, K., L. Wang, **D. M. Infante**, C. Geddes, A. R. Cooper, L. Stanfield, and E. Rutherford. 2009. Assessing landscape condition in the Laurentian Great Lakes Basin. 139th Annual Meeting of the American Fisheries Society, August 30-September 3, 2009, Nashville, Tennessee.
- (40) ** Esselman, P., **D. M. Infante**, and L. Wang. 2009. A hierarchical spatial framework for the national river fish habitat assessment. National Fish Habitat Action Plan joint meeting between the Inland and Coastal Assessment Teams. July 22-23, 2009, Grand Haven, Michigan.
- (39) ** Esselman, P., **D. M. Infante**, L. Wang, W. W. Taylor, and A. R. Cooper. 2009. Assessment of the status of habitat in the nation's rivers and streams. National Fish Habitat Action Plan joint meeting between the Inland and Coastal Assessment Teams. July 22-23, 2009, Grand Haven, Michigan.
- (38) **Infante, D. M.**, and L. Wang. 2009. Integrating advances in ecological theory into assessment approaches and management applications: Session introduction. North American Benthological Society, Annual Meeting, May 17-22, 2009, Grand Rapids, Michigan.
- (37) **Infante, D. M.**, L. Wang, W. W. Taylor, A. R. Cooper, and P. Esselman. 2009. Assessment of the status of habitat in the Nation's aquatic ecosystems. North American Benthological Society, Annual Meeting, May 17-22, 2009, Grand Rapids, Michigan.
- (36) Tingley III, R. W., **D. M. Infante**, and D. Schemske. 2009. Identification and evaluation of fluvial habitat for Arctic grayling (*Thymallus arcticus*) in Michigan. North American Benthological Society, Annual Meeting, May 17-22, 2009, Grand Rapids, Michigan.

- (35) ** Ostroff, A., Esselman, P., **D. M. Infante**, L. Wang, W. W. Taylor, A. R. Cooper. 2009. Update on the initial assessment of the status of fish habitat. Presentation for the Southeast Aquatic Resource Partnership (SARP) of the National Fish Habitat Action Plan, May 6, 2009, Social Circle, Georgia.
- (34) ** **Infante, D. M.** 2009. Links among landscape, habitat, and biology. Michigan State University Extension, Water Area of Expertise. February 18, 2009, East Lansing, Michigan.
- (33) ** **Infante, D. M.**, L. Wang, D. Wu, W. W. Taylor, and A. R. Cooper. 2008. Update on the Initial Assessment of the Status of Fish Habitat: Supporting SARP. Webinar Conference for National Fish Habitat Action Plan Partnerships (~40 participants), December 17, 2008.
- (32) ** **Infante, D. M.**, L. Wang, D. Wu, W. W. Taylor, and A. R. Cooper. 2008. Update on the Initial Assessment of the Status of Fish Habitat: Supporting NFHAP Partnerships. Webinar Conference for National Fish Habitat Action Plan Partnerships (~50 participants). November 24, 2008.
- (31) ** **Infante, D. M.**, D. Wu, L. Wang, W. W. Taylor, and A. R. Cooper. 2008. Initial Assessment of the Status of Fish Habitat for the National Fish Habitat Action Plan. National Fish Habitat Board Meeting, October 7-8, 2008, Arlington, Virginia.
- (30) **Infante, D. M.**, D. Wu, and L. Wang. 2008. Initial Assessment of the Status of Fish Habitats: The need for stressor ratings. Stressor Rating Work Group Meeting in support of the National Fish Habitat Action Plan, May 22-23, 2008, Reston, Virginia.
- (29) Williams, M., **D. M. Infante**, and D. Hayes. 2008. Brown and rainbow trout movement patterns in the Pine River, Manistee County, Michigan, relative to the removal of Stronach Dam. Michigan State University Undergraduate Research and Arts Forum, April 11, 2008.
- (28) Tingley III, R. W., **D. M. Infante**, and D. Schemske. 2008. The Arctic Grayling in Michigan: A landscape analysis to identify suitable habitat. Michigan State University Graduate Student Research Symposium, March 21, 2008.
- (27) Wang, L., **D. M. Infante**, D. Wu, A. R. Cooper, P. Seelbach, and W. W. Taylor. 2008. Initial assessment of national fish habitat status – streams and rivers. National Fish Habitat Action Plan Science and Monitoring Needs Workshop, March 4-6, 2008, Phoenix, Arizona.
- (26) ** **Infante, D. M.**, D. Wu, L. Wang, P. W. Seelbach, A. R. Cooper, and W. W. Taylor. 2008. Update: Initial Assessment of the Status of Fish Habitats. Science and Data Committee Meeting, National Fish Habitat Action Plan, February 4-7, 2008, San Antonio, Texas.
- (25) ** Wu, D., **D. M. Infante**, L. Wang, P. W. Seelbach, A. R. Cooper, and W. W. Taylor. 2008. Progress on National Fish Habitat Assessment. Science and Data Committee Meeting, National Fish Habitat Initiative, February 4-7, 2008, San Antonio, Texas.
- (24) ** **Infante, D. M.**, and L. Wang. 2008. Nationwide assessment of the status of fish habitats: Discussion, thoughts, and insights. 2nd Annual GAP Program NCEAS Workshop, January 15-18, 2008, Santa Barbara, California.
- (23) ** Stedman, S. M., D. Beard, **D. M. Infante**, and G. Whelan. 2007. The National Fish Habitat Action Plan: Importance of coastal assessment. National Oceanic and Atmospheric Association (NOAA) Special Meeting, December 20, 2007, Washington, D.C.
- (22) ** Beard Jr., T. D., **D. M. Infante**, D. Wu, and G. Whelan. 2007. The National Fish Habitat Action Plan – overview and assessment of the state of aquatic habitat. 68th Midwest Fish and Wildlife Conference, December 9-12, 2007, Madison, Wisconsin.
- (21) **Infante, D. M.**, D. Wu, J. Cushing, D. Beard, G. Whelan, L. Wang, W. W. Taylor. Update: National Fish Habitat Assessment. National Fish Habitat Board Meeting, October 2-3, 2007, Arlington, Virginia.
- (20) ** Wu, D., **D. M. Infante**, L. Wang, P. W. Seelbach, A. R. Cooper, and W. W. Taylor. 2007. Update on the National Fish Habitat Assessment. National Fish Habitat Action Plan Federal Caucus Meeting, September 26, 2007, Washington D. C.
- (19) ** **Infante, D. M.**, D. Wu, G. Canonico, D. Beard, L. Wang, and W. W. Taylor. 2007. Importance of the Aquatic GAP Program to the National Fish Habitat Action Plan: Providing data, approaches, and resolution to the initial assessment of the status of fish habitats. National GAP Conference, September 10-13, 2007, Asheville, North Carolina.

- (18) ** Wu, D., **D. M. Infante**, and G. Canonico. 2007. Improving data integration and analysis for the Aquatic GAP Analysis Program: A strategy for review and summary of completed projects. National GAP Conference, September 10-13, 2007, Asheville, North Carolina.
- (17) ** Wu, D., **D. M. Infante**, L. Wang, P. W. Seelbach, A. R. Cooper, and W. W. Taylor. 2007. National Fish Habitat Assessment. American Fisheries Society, 137th Annual Meeting, September 2-6, 2007, San Francisco, California.
- (16) **Infante, D. M.**, T. Zorn, T. Wills, and L. Wang. 2007. Development of a physical habitat assessment protocol and rating system for Michigan's nonwadeable rivers. Department of Fisheries and Wildlife Graduate Student Speaker Symposium, April 20, 2007.
- (15) **Infante, D. M.**, T. Zorn, T. Wills, and L. Wang. 2006. Development of a physical habitat assessment protocol and rating system for Michigan's nonwadeable rivers. 67th Midwest Fish and Wildlife Conference, December 3-6, 2006, Omaha, Nebraska.
- (14) **Infante, D. M.**, T. Wills, T. Zorn, and L. Wang. 2006. Physical habitat and fish assemblages in Michigan's nonwadeable rivers. Annual Meeting of the Michigan Chapter of the American Fisheries Society, March 6-7, 2006, Lansing, Michigan.
- (13) **Infante, D. M.**, T. Zorn, T. Wills, J. D. Allan, and L. Wang. 2005. Habitat assessment in Michigan's nonwadeable rivers: Identifying factors relevant to fish assemblages. 66th Midwest Fish and Wildlife Conference, December 11-14, 2005, Grand Rapids, Michigan.
- (12) Allan, J. D., and **D. M. Infante**. 2005. Species traits influence assemblage structure across anthropogenic environmental gradients in streams. 90th Annual Meeting of the Ecological Society of America, August 7-12, 2005, Montreal, Quebec, Canada.
- (11) Allan, J. D., and **D. M. Infante**. 2005. Species traits and assemblage structure across anthropogenic environmental gradients in streams of southeastern Michigan. North American Benthological Society, Annual Meeting, May 22-27, 2005, New Orleans, Louisiana.
- (10) Diana, M. J., J. D. Allan, and **D. M. Infante**. 2004. Habitat and land use influences on fish assemblages in impacted Midwestern streams. American Fisheries Society, 134th Annual Meeting, August 22-26, 2004, Madison, Wisconsin.
- (9) **Infante, D. M.**, M. J. Wiley, and P. W. Seelbach. 2004. The effects of channel incision and watershed land cover on fish assemblage structure in lower Michigan. American Fisheries Society, 134th Annual Meeting, August 22-26, 2004, Madison, Wisconsin.
- (8) **Infante, D. M.**, J. D. Allan, S. Linke, and R. H. Norris. 2004. Environmental factors shaping fish and macroinvertebrate assemblages in streams of southeastern Michigan. North American Benthological Society, Annual Meeting, June 6-10, 2004, Vancouver, British Columbia.
- (7) **Infante, D. M.**, and J. D. Allan. 2003. Does landscape variability influence stream habitat? Society for Conservation Biology, Annual Meeting, June 28-July 2, 2003, Duluth, Minnesota.
- (6) Allan, J. D., R. Cifaldi, and **D. M. Infante**. 2002. Landscape pattern and stream habitat quality in southeastern Michigan. 87th Annual Meeting of the Ecological Society of America, August 4-9, 2002, Tucson, Arizona.
- (5) Nassauer, J. I., J. D. Allan, S. Kosek, and **D. M. Infante**. 2002. Residential development in agricultural landscapes: effects on public perception and water quality. 87th Annual Meeting of the Ecological Society of America, August 4-9, 2002, Tucson, Arizona.
- (4) **Infante, D. M.**, and J. D. Allan. 2002. Habitat quality and its relationship to landscape pattern in exurbanizing watersheds of southeast Michigan. North American Benthological Society, Annual Meeting, May 28-June 1, 2002, Pittsburgh, Pennsylvania.
- (3) **Infante, D. M.**, M. J. Wiley, and P. W. Seelbach. 2001. Investigation of fish assemblages, invertebrates, and channel shape using covariance structure analysis. North American Benthological Society, Annual Meeting, June 3-9, 2001, LaCrosse, Wisconsin.
- (2) **Infante, D. M.**, M. J. Wiley, and P. W. Seelbach. 2000. Effects of channel incision and low flow hydraulic radius on stream fish assemblages. 62nd Midwest Fish and Wildlife Conference, December 3-6, 2000, Minneapolis, Minnesota.

- (1) **Infante, D. M.**, M. J. Wiley, and P. W. Seelbach. 1999. The effects of channel incision on fish communities in Michigan's Lower Peninsula. 61st Midwest Fish and Wildlife Conference, December 5-8, 1999, Chicago, Illinois.

COURSE INSTRUCTION

(*) indicates semester of development

(**) indicates semester of teaching while a Lilly Teaching Fellow

Primary instructor

- (4) **Characterizing landscape influences on stream fish assemblages: Implications for large-scale assessment of stream habitats**, 2 credit, seminar: Application of the landscape approach for assessing and conserving stream fish habitats
Taught Spring of 2015* as a Guest Professor, Institute of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Life Sciences, Vienna, Austria.
- (3) **Foundations and Frontiers of Stream Ecology, FW 893**, 1 credit, seminar
Description: Study of current and emerging theories in the field of stream ecology and their application for river management and conservation.
Taught Spring 2010*.
- (2) **Hydrology for Watershed Management, FW 454**, 3 credits, lecture
Description: Principles of hydrology and their application for management of aquatic and terrestrial systems.
Taught Spring 2009*, 2011**, 2013, 2015, 2017, 2019.
- (1) **Aquatic Ecosystem Management, FW 414**, 3 credits, lecture
Description: Study of how aquatic ecosystems are managed to meet ecological and socioeconomic objectives using an ecosystem management approach.
Taught Fall 2007, 2008, 2009, 2012, 2015, 2016, 2017.

Guest lectures

- (8) **Landscape Ecology, FW 840**, Fall 2007 and 2010.
- (7) **Global Issues in Fisheries and Wildlife Resources, FW 481**, Spring 2007, 2008, 2009, 2010, 2012, 2014, 2016, 2018, 2020
- (6) **Stream Ecology, FW 420**, Fall 2008, 2009, and 2012.
- (5) **Wetland Ecology and Management, FW 417**, Fall 2018.
- (4) **Aquatic Ecosystem Management, FW 414**, Fall 2010 and 2011.
- (3) **Uplands Ecosystem Management, FW 410**, Spring 2008, 2009, 2010 and 2011.
- (2) **Fundamentals of Fisheries and Wildlife Ecology and Management, FW 101**, Fall 2008, 2009, 2010, 2016, 2017, 2018, 2019, 2020, 2021; Spring 2009, 2010, 2011, 2012, 2013, 2015, 2016, 2017, 2018, 2019, 2020
- (1) **Introduction to Science, Technology, Environment, and Public Policy, FW 181**, Fall 2006.

Independent study advisor

- (7) Brooke Rosekrans, Undergraduate. Landscape approach: Focus on Alaskan streams, Summer 2016.
- (6) Arthur Cooper, MS Student. Multivariate statistics, Fall 2011.
- (5) Alexandra David, Undergraduate. Advanced topics in hydrology, Fall 2011.
- (4) Betsy Puchala, Undergraduate. Hydrology for watershed management, Spring 2010.
- (3) Ralph W. Tingley III, MS Student. Multivariate statistics, Fall 2009.
- (2) Kerryann Waco, MS Student. Hydrology in Michigan, focus on groundwater, Summer 2008.
- (1) Katrina B. Mueller, PhD student. Landscape effects on rivers with emphasis on coastal rivers of Maine, Spring 2007.

STUDENT ADVISING

Student awards included

Lab currently includes 0 MS students, 2 PhD students, 1 Post-doctoral researcher, and 4 research technicians

Primary advisor, doctoral students

- (4) **Kyle Brumm.** Resilience of river habitats under changing climate. Began Fall 2020.
- (3) **Emily Dean.** Effects of stream network fragmentation on migratory fishes. Began Fall 2016, expected defense Spring 2021.
Awards include: Emerging Leaders Program, Great Lakes Leadership Academy 2017; Fred Poston Scholarship, 2017; James Schramm Scholarship for Graduate Study in Fisheries from the Great Lakes Council Fly Fishers International, 2018; Dr. Howard A. Tanner Fisheries Excellence Fellowship, \$2500, 2018-2019, Department of Fisheries and Wildlife; Fisheries and Wildlife Graduate Student Organization Travel Grant, \$300, Spring 2019; Janice Lee Fenske Excellence in Fisheries Management Fellowship 2020-2021
- (2) **Ralph W. Tingley III.** Assessing impacts of climate change on tropical stream ecosystems over multiple spatial scales. Began Fall 2010; defended Spring 2017.
Awards include: National Climate Change and Wildlife Science Center Science to Action Fellowship, United States Geological Survey, \$10,000, 2015; Fisheries and Wildlife Department Special Recognition Fellowship, 2014; Best Student Presentation in a Fish Habitat Section, 145th Annual Meeting of the American Fisheries Society, \$100, August 2015
- (1) **Darren J. Thornbrugh.** Regional influence of landscape features and processes on fluvial fish assemblages of the United States. Began Fall 2009; defended Fall 2014.
Awards include: Summer Recruitment Fellowship, 2009, College of Agriculture and Natural Resources; Bridge Fellowship, 2009-2010, College of Agriculture and Natural Resources; Ball Fellowship, \$5000, 2010-2011, Department of Fisheries and Wildlife; Red Cedar Fly Fishers Scholarship, \$1000, June 2011; Dr. Howard A. Tanner Fisheries Excellence Fellowship, \$2500, 2012-2013, Department of Fisheries and Wildlife; Dissertation Completion Fellowship, College of Agriculture and Natural Resources, \$3000, 2014

Primary advisor, MS students

- (8) **Samantha Betances.** The value of habitat data for conserving streams with changing climate: Promoting greater use for more effective management. Began Fall 2017, defended Fall 2020.
Awards: Academic Achievement Graduate Assistantship (AAGA), Fall 2017-Spring 2018, Michigan State University; Janice Lee Fenske Excellence in Fisheries Management Fellowship 2018-2019; John Robertson – Theodore Roosevelt Conservation and Environmental Leadership Fellowship, 2018, \$2500; Emerging Leaders Program, Great Lakes Leadership Academy 2019; Robert C. Ball and Betty A. Ball Fisheries and Wildlife Fellowship 2019, \$5000
- (7) **Linda Ortiz Gonzalez.** Influence of vegetated buffers on fish habitat in agricultural streams in Michigan: Implications for conservation. Began Fall 2014, defended Fall 2020.
Awards: Michigan Lake and Stream Leaders Institute, 2015; Michigan State University Graduate School Tuition Fellowship, 2014-2018
- (6) **Erin Tracy.** Bridging gaps in information: Strategies for improving natural resource management in a changing climate. Began Fall 2016, defended Summer 2019.
Awards: John Robertson – Theodore Roosevelt Conservation and Environmental Leadership Fellowship, 2016-2017, \$2500; Janice Lee Fenske Excellence in Fisheries Management Fellowship 2017-2018; Emerging Leaders Program, Great Lakes Leadership Academy 2018; Fisheries and Wildlife Graduate Student Organization Travel Grant, \$300, Spring 2019; Ball Fellowship, \$2500, 2019-2020, Department of Fisheries and Wildlife
- (5) **Janet Hsiao.** Linkages between inland aquatic ecosystems and coastal habitats. Began Fall 2014, defended Fall 2017.

Awards: Fisheries and Wildlife Graduate Student Organization Travel Grant, \$150, Spring 2015; Department of Fisheries and Wildlife Graduate Fellowship, \$375, Spring 2016; Ball Fellowship, \$5000, 2016-2017, Department of Fisheries and Wildlife; Emerging Leaders Program, Great Lakes Leadership Academy, 2016; Fred Poston Scholarship, \$1000, 2016

- (4) **Jacqueline L. Fenner.** Developing spatial decision-support tools for Hawaiian ecosystem managers. Began Fall 2010; left program voluntarily in Spring 2012 following change in career focus. Awards: Academic Achievement Graduate Assistantship (AAGA), Summer 2010-Spring 2011, Michigan State University; Theodore (Teddy) Roosevelt Conservation and Environmental Leadership Fellowship, Spring 2011; Emerging Leaders Program, Great Lakes Leadership Academy, 2011
- (3) **Jared A. Ross.** Effects of riparian timber harvest on anadromous fish habitat in southeast Alaska streams. Began Fall 2010, defended Fall 2013. Awards: Research grant from Schrems West Michigan Chapter of Trout Unlimited, \$2000, March 2011
- (2) **Arthur R. Cooper.** Fragmentation by dams: Assessing river connectivity in the conterminous U.S. with focus on the impacts of dams on fish assemblages in Michigan, Wisconsin, and Minnesota. Began Fall 2008, defended Fall 2013. Awards: Ball Fellowship, \$5000, 2008-2009, Department of Fisheries and Wildlife
- (1) **Ralph W. Tingley III.** A landscape-scale analysis of factors limiting distributions and abundances of Arctic Grayling (*Thymallus arcticus*) in Michigan rivers. Began Fall 2007, defended Spring 2010. Awards: Ball Fellowship, \$5000, 2007-2008, Department of Fisheries and Wildlife; Paul H. Young Chapter of Trout Unlimited, \$1000 research grant, April 2008; Travel grant, \$125, Michigan Chapter of the American Fisheries Society, March 2008; Travel grant, \$125, Department of Fisheries and Wildlife to attend the North American Benthological Society Meeting, May 2009; Research grant from Schrems West Michigan Chapter of Trout Unlimited, \$2000, March 2009; Red Cedar Fly Fishers Scholarship, \$1000, June 2009; Summer Retention Fellowship, 2009, College of Agriculture and Natural Resources

Primary advisor, post-doctoral research associates

- (7) **Hao Yu.** Project: Aquatic GAP Analysis Program: Enhancing data and approaches for conserving the Nation's inland aquatic ecosystems. To begin in August 2019. Fellow with the USGS Northeast Climate Adaptation Science Center.
- (6) **William Fetzer.** Jointly advised by Dr. Brian Roth. Projects: June 2013 to March 2016.
- (5) **Wesley Daniel.** Project: A national assessment of the status of fish habitat. May 2012 to May 2017.
- (4) **Yin-Phan Tsang.** Projects: Managing the Nation's fish habitat at multiple spatial scales in a rapidly changing climate, Aquatic GAP Program: Developing data and approaches to support conservation of aquatic ecosystems across the Nation, A stream temperature inventory network and decision support metadata mapper - Evaluating the resources to understanding climate change effects on streams in New England and the Great Lakes States, and Developing a decision support process to aid in conservation of aquatic habitats throughout the Main Hawaiian Islands. August 2010 to July 2015. Award: 2011 Women Evolving the Biological Sciences Symposia Participant, November 6-9, Durham, North Carolina
- (3) **Damon Krueger.** Projects: Managing the Nation's fish habitat at multiple spatial scales in a rapidly changing climate and Aquatic GAP Analysis Program: Developing landscape-scale understanding, approaches, and data for managing aquatic biodiversity. March 2010 to April 2014.
- (2) **Peter Esselman.** Project: An initial national assessment of the status of fish habitats. February 2009 to February 2011.
- (1) **Dayong Wu.** Projects: "An initial national assessment of the status of fish habitats" and "Aquatic GAP analysis program: A search for new paradigms to guide future research." February 2007 to December 2008.

Fulbright mentorship

- (1) **Rafaela Schinegger**, Fulbright Scholar (Austria), 2015.

Visiting international students

- (1) **Marlene Ublacker**, Spring 2017, visiting graduate student from the University of Natural Resources and Life Science, Vienna, Austria.
- (2) **Wolfgang Obruca**, Spring 2014, visiting graduate student from the University of Natural Resources and Life Sciences, Vienna, Austria.

Research staff

- (11) **Robert Homan**, GIS research specialist, January 2021 to present.
- (10) **Allie Shoffner**, research specialist, 2018 to present.
- (9) **Russ Cotner**, GIS research specialist, February to July 2013.
- (8) **Ken Yeh**, GIS research specialist, January 2012 to present.
- (7) **Kyle Herreman**, GIS research specialist. August 2012 to present.
- (6) **Alexandra David**, research technician, May 2012 to December 2013.
- (5) **Trevor Havelka**, GIS research specialist, January 2011 to January 2012.
- (4) **Elizabeth Throckmorton**, research specialist, 2010, 2015 to 2018.
- (3) **Daniel Wieferich**, GIS research specialist, October 2009 to August 2014.
- (2) **Jared Ross**, GIS research specialist, May 2009 to September 2010, September 2013 to April 2014, April 2018 to present.
- (1) **Arthur Cooper**, GIS research specialist, February 2008 to present.
Award: College of Agriculture and Natural Resources Staff Advisory Committee Support Staffer of the Month, March, 2016.

Undergraduate research project advisees

- (3) **Paul Gibson**. Influences of wetlands on stream fish assemblages: Investigation of regional trends across Michigan's Lower Peninsula, Spring 2016.
- (2) **Alexandra David**. Effects of precipitation changes on flow regimes of Hawaiian streams: Implications on native stream fauna. Spring 2012.
Award: First Place for presentation at University Undergraduate Research and Arts Forum, Spring 2012.
- (1) **Mart Williams**. Brown and Rainbow trout movement patterns in the Pine River, Manistee County, Michigan, relative to the removal of Stronach Dam. Spring 2008.
Award: Outstanding Senior Award, Michigan State University, Graduating class, December 2008.

Undergraduate interns

- (11) **Clay Ernzen**, Department of Fisheries and Wildlife, Michigan State University, intern for pay. May, 2019 through present.
- (10) **Audrey Baetz**, Department of Fisheries and Wildlife, Michigan State University, intern for pay. January through April 2019.
- (9) **Joshua Peters**, Department of Fisheries and Wildlife, Michigan State University, intern for pay. September 2017 to May 2018.
- (8) **Ryan Taylor**, Department of Fisheries and Wildlife, Michigan State University, intern for credit. January to May 2017.
- (7) **Clay Joupperi**, Geography Department, Michigan State University, intern for credit. April to June 2015.
- (6) **Zhang "Darcy" Ya**, Shanghai Ocean University, intern for credit. July to August 2014.
- (5) **Xia "Sherri" Siyu**, Shanghai Ocean University, intern for credit. July to August 2014.

- (4) **Evan Shields**, Department of Fisheries and Wildlife, Michigan State University, intern for pay. September to December 2013.
- (3) **Matthew Plomp**, Department of Fisheries and Wildlife, Michigan State University, intern for pay. June to December 2013.
- (2) **Xueyun “Snow” Xing**, Shanghai Ocean University, intern for credit. July to August 2012.
- (1) **Kyle Herreman**, Geography Department, Michigan State University, intern for credit. May to August 2012.

High school student research project advisee

- (1) **Mark List**. Comparison of rivers draining natural, agricultural and urban lands near Lansing, Michigan. Project for Senior Biology Class, Laingsburg High School, Spring 2010.

Committee member, doctoral students

- (9) **Shane Flinn**, Kelly Robinson, primary advisor.
- (8) **Melanie Haslauer**, Stefan Schmutz, primary advisor. Institute of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Life Sciences, Vienna, Austria.
- (4) **Johnathan Hegna**, Kim Scribner, primary advisor. Juvenile lake sturgeon downstream passage behavior and survival at two hydroelectric dams.
- (6) **Katelyn King**, Kendra Cheruvelil, primary advisor. The importance of the freshwater landscape, connectivity, and regional processes for understanding spatial patterns and drivers of lake, stream, and wetland properties at macroscales. Defended Spring 2021.
- (7) **Joseph Stachelek**, Pat Soranno, primary advisor. Spatial patterning of lake nutrients and morphometry at macroscales: Importance of regional factors and aquatic-terrestrial linkages. Defended Summer 2020.
- (5) **Laura Twardochleb**, Phoebe Zarnetske, primary advisor. How will global warming and predator-prey interactions affect populations of freshwater invertebrates? Defended Spring 2020.
- (3) **Andrew Carlson**, William W. Taylor, primary advisor. Forecasting stream salmonid growth and survival in a changing climate with implications for resilience-based management. Defended Spring 2019.
- (2) **Betsy Riley**, William W. Taylor, primary advisor. Natural resources, community engagement, and policy: Using interdisciplinary methodologies to study complex policy solutions. Defended Spring 2019.
- (1) **Amy Schueller**, Daniel Hayes, primary advisor. Evaluation of lake sturgeon rehabilitation strategies using an individual-based model of demographics and genetics. Defended Summer 2009.

Committee member, MS students

- (12) **Emma Rice**, Abigail Bennett, primary advisor. Analyzing barriers to market analysis for fish traders in Malawi: A gendered spatial value chain analysis.
- (11) **Marcella Domka**, Kendra Spence Cheruvelil, primary advisor.
- (10) **Danielle Matuszak**, Kendra Spence Cheruvelil, primary advisor.
- (9) **Connor Buckley**, Kelly Robinson, primary advisor.
- (8) **Marlene Ublacker**, Rafaela Schinegger, primary advisor, Institute for Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Life Sciences, Vienna, Austria. Human stressors and their impacts on freshwater fish communities – a cross-continental comparison of European and United States Freshwater Ecoregions. Defended in Fall 2019.
- (7) **Marissa (Hammond) Decosta**, William W. Taylor, primary advisor. Assessing the change in Lake Whitefish (*Coregonus clupeaformis*) maturity schedules from 1976-2013 in the upper Great Lakes. Defended Spring 2015.
- (6) **Kelsey Schlee**, William W. Taylor, primary advisor. The impact of climate change on brook trout (*Salvelinus fontinalis*) thermal habitat in the United States. Defended Fall 2014.
- (5) **Kiira Siitari**, William W. Taylor, primary advisor. A landscape perspective on the distribution and harvest of North American river otters in Michigan in relation to prey availability. Defended Summer 2012.

- (4) **Kerryann Waco**, William W. Taylor, primary advisor. Relationship of groundwater extraction to brook trout populations in Twin and Chippewa Creeks, Cedar Township, Osceola County, Michigan. Defended Summer 2009.
- (3) **Steven Sutton**, William W. Taylor, primary advisor. Effectiveness of the Michigan Natural Rivers Program. Defended Spring 2009.
- (2) **Mustafa Mazher**, Joan Rose, primary advisor. Transport and survival of *Escherichia coli* within soil aggregates. Defended Spring 2009.
- (1) **Kristine Boley-Morse**, William W. Taylor, primary advisor. A classification of stream types and regional reference curves for Michigan. Defended Spring 2009.

External dissertation examiner

- (3) **Edward Krynak**, Western University, Ontario, Canada. Defended Fall 2018.
- (2) **Gabriel Brejao**, University of Campinas, Sao Paulo, Brazil. Defended Spring 2018.
- (1) **Jaqueline De Oliveira Zeni**, Sao Paulo State University, Sao Paulo, Brazil. Defended Spring 2017.

MSU SERVICE

University

- Water Structure Advisory Committee, 2021 to present
- Ad hoc PFAS Proposal Review Committee, Chair, 2020
- Sponsored Programs Advisory Committee, 2020 to present
- Water Science Curriculum Committee, 2018 to present
- University Distinguished Fellowship Review Committee, 2018, 2019, 2020
- Multi-Institutional Land Grant Partnership Initiative, 2014 to present
- College of Veterinary Medicine Dean Search Committee, 2018
- University Jurisdictional Appeal Panel, August 2017
- University Academic Appeals Board, 2008-2010
- Proposal Reviewer, Center for Water Science, 2007-2008
- Panel Discussion, "Life as a New Faculty Member," Zoology 801, October 2007

College

- Invited Panelist, Our Table, Women in Science, February 7, 2020
- Microgrant Proposal Reviewer, 2017, 2020, 2021
- College Advisory Committee Alternate, College of Agriculture and Natural Resources, 2017
- ESPP Interdisciplinary Team Building Initiative Proposal Reviewer, June 2017
- Proposal reviewer, Michigan AgBioResearch, 2007-present

Department of Fisheries and Wildlife

- ad hoc Strategic Planning Team; Water Sciences Research Committee, Chair, 2019
- ad hoc Space Committee, Chair, 2019
- Relationship Violence and Sexual Misconduct Point of Contact, 2018-present
- Search Committee, Assistant Professor, Fixed Term, Great Lakes Acoustic Telemetry Observation System (GLATOS) Director, Affirmative Action Advocate, 2018
- Search Committee, Assistant/Associate Professor, Tenure Track, Global Inland Fisheries Ecology and Governance position, Affirmative Action Advocate, 2015 to 2018
- National Climate Change and Wildlife Science Center Science to Action Fellowship Committee, 2014-present
- Department Advisory Committee, Chair, 2014 to 2017

- Graduate Committee, 2012-2013
- Janice Lee Fenske Excellence in Fisheries Management Fellowship Committee, Chair, 2006-present
- Curriculum Committee, 2008-2010
- Student Presentation Judge, Graduate Student Research Symposiums, 2007, 2008, and 2009
- ad hoc Committee on Student Awards, 2008
- Department faculty meeting minute taker, 2007

EXTERNAL SERVICE

- Editorial board, Aquatic Ecosystem Health and Management, 2020- present.
- Member of the Michigan Dam Safety Task Force, 2020.
- Member of the Michigan Department of Natural Resources Fisheries Division Climate Change Committee, 2020-present.
- Member of the National Fish Habitat Science and Data Committee, 2016 to present.
- Topic editor, special issue for Frontiers in Environmental Science, “Challenges and innovative solutions in river sciences,” 2019-2020.
- Nominated and selected to serve as a member of the Independent Scientific Advisory Board and Independent Scientific Review Panel, Northwest Power and Conservation Council, Columbia River Basin Indian Tribes and National Marine Fisheries Service, 2019-2022.
- Invited panelist, Discussion of impacts of climate change on the Great Lakes: biology, hydrology, and coastlines. 2019 Science-Policy Confluence Conference: Understanding and Addressing Climate Change Impacts on the Great Lakes, March 28-29, 2019, Chicago, Illinois.
- Invited panelist, Discussion on STEM, Engagement, and Policy Careers, Michigan Sea Grant Community-Engaged Research Institute, July 12, 2017, Bath, Michigan.
- Environmental Metrics for Hydropower Science Advisory Board Member, in support of Oak Ridge National Laboratories and the U.S. Department of Energy, 2017 to 2020.
- Search committee for Basin Coordinator for Michigan Department of Natural Resources, Fisheries Division, June 2016.
- Invited panelist, “What to expect from your PhD supervisor, and what they should expect from you.” Bitesize Bio Webinar, October 29, 2014. <http://bitesizebio.com/Webinar/20611/what-to-expect-from-your-phd-supervisor-and-what-they-should-expect-from-you/>
- Invited panelist, Student Colloquium/Mentor Event, “How to get a job in academia,” 143rd Annual Meeting of the American Fisheries Society, September 8-12, 2013, Little Rock, Arkansas.
- Proposal reviewer, Natural Sciences and Engineering Research Council of Canada (NSERC), 2013.
- Associate editor, American Midland Naturalist, 2010-2011.
- Great Lakes Basin Fish Habitat Partnership Science and Data Committee member, 2010.
- Great Lakes Environmental Assessment and Mapping (GLEAM) core working group member, 2009-2012.
- Great Lakes Fishery Trust Habitat Steering Committee member, 2009.
- National Fish Habitat Partnership Science and Data Committee member, 2007-present.
- Proposal reviewer, Exxon Valdez Oil Spill Trustee Council, 2007-2009.

Meeting and session organization

- Workshop co-organizer, Assessing habitat suitability for migratory fish species in Great Lakes tributaries using a landscape approach: Information to aid in barrier management. Virtual meeting for stakeholders of the Great Lakes Fishery Commission, November 3, 2020.
- Symposium co-organizer, Balancing the roles of anthropogenic and natural barriers for conserving fish and fisheries. 150th Annual Meeting of the American Fisheries Society, September 14-25, 2020, Virtual Meeting.
- Symposium co-organizer, Ecological and social landscape-scale drivers of freshwater biodiversity: Novel findings and future challenges. Annual Meeting of the International Society for River Science, September 8-13, 2019, Vienna, Austria.
- Co-organizer, 25th anniversary celebration for the Partnership for Ecosystem Research and Management, East Lansing, Michigan, February 7, 2019.
- Symposium co-organizer, Advances in understanding landscape influences on freshwater habitats and biological assemblages. 148th Annual Meeting of the American Fisheries Society, August 19-23, 2018, Atlantic City, New Jersey.
- Symposium co-organizer, Landscape influences on freshwater habitats and biological assemblage. Annual Meeting for the Society for Freshwater Science, May 20-24, 2018. Detroit, Michigan.

- Workshop co-organizer, National Fish Habitat Partnership assessment workshop. 147th Annual Meeting of the American Fisheries Society, August 20, 2017, Tampa, Florida.
- Symposium co-organizer, What data are needed to ensure freshwater mollusk conservation into the future? 146th Annual Meeting of the American Fisheries Society, August 25, 2016, Kansas City, Missouri.
- Workshop co-organizer, FISHTAIL: A decision support mapper for conserving stream fish habitats of the NECSC region, Northeast Climate Science Center Stakeholder Webinar (~75 participants), June 9, 2016.
- Symposium co-organizer, Hawaii Stream Conservation Workshop 2016, February 23-25, 2016, Honolulu, Hawaii.
- Workshop co-organizer, NorEaST Web Portal Demo-User Testing and Development Workshop, December 9-10, 2014, Middleton, Wisconsin.
- Workshop co-organizer, FISHTAIL: A decision support mapper for conserving stream fish habitats of the NECSC region, Northeast Climate Science Center stakeholder Webinar (~50 participants), May 7, 2014.
- Workshop co-organizer, Regional decision support workshop for identifying vulnerabilities of riverine fish to climate change, Upper Midwest and Great Lakes Landscape Conservation Cooperative, November 2013, Middleton, Wisconsin.
- Workshop co-organizer, Climate change and fish habitat project stakeholder's workshop. American Fisheries Society, 142nd Annual Meeting, August 2012, St. Paul, Minnesota.
- Symposium co-organizer, Impacts of climate and land use changes on fish and fish habitat in streams and lakes: Special emphasis on strategies for fisheries management and conservation. American Fisheries Society, 142nd Annual Meeting, August 2012, St. Paul, Minnesota.
- Workshop co-organizer, Regional decision support workshop for identifying vulnerabilities of riverine fish to climate change, June 2012, Ann Arbor, Michigan.
- Workshop co-organizer, Developing a strategic vision for the Aquatic GAP Program, November 2011, Annapolis, Maryland.
- Symposium co-organizer, Landscapes and fish-habitat relationships: New approaches and applications, American Fisheries Society, 140th Annual Meeting, September 2010, Pittsburgh, Pennsylvania.
- Meeting organizer, National Fish Habitat Action Plan joint meeting between the Inland and Coastal Assessment Teams, July 2009, Grand Haven, Michigan.
- Symposium co-organizer, Using best available science to protect and restore aquatic ecosystems: Integrating advances in ecological theory into assessment approaches and management applications, North American Benthological Society Meeting, May 2009, Grand Rapids, Michigan.
- Working group coordinator, Rating stressors for use in the initial national assessment of the status of fish habitats, May 2008, Reston, Virginia.
- Workshop co-organizer, National Fish Habitat Science and Data Partners Workshop, September 2007, San Francisco, California.

Meeting participant

- United States Geological Survey, Climate change and vulnerable inland lake fishes virtual workshop, March 18, 2021.
- Fish, livelihoods, and food and nutrition security: Leveraging partnerships to enhance knowledge and practice in fisheries and aquaculture. Hosted by A. Bennett. Virtual workshop, April 8-9, 2020.
- United States Geological Survey, Bio Foundational Data and Analysis Team Meeting, Boise, Idaho, February 4-6, 2020
- United States Geological Survey, Climate Change and Wildlife Health Workshop, Madison, Wisconsin, January 7-9, 2020.
- Boone and Crockett Club's Annual 132nd Meeting, Tuscon Arizona, December 4-7, 2019.
- Annual InFish meeting, Columbia, Missouri, April 12-14, 2019.
- United States Geological Survey, National Stream Summarization Meeting, Denver, Colorado, August 2-5, 2016.

- United States Geological Survey, National Biogeographic Assessment Strategic Planning Meeting, Boise, Idaho, October 6-8, 2015.
- National Stream Internet Workshop, Boise, Idaho, April 23-24, 2015.
- Grand Challenges for Water Research in the Great Lakes Region, Michigan State University, East Lansing, Michigan, September 5, 2014.
- International Union for Conservation of Nature (IUCN) Red List for wetland ecosystems, Arles, France, September 2011.
- Panel member for Environmental Protection Agency's Office of Research and Development's Causal Analysis Team, October 2009.
- National Center for Ecological Analysis and Synthesis (NCEAS) working group participant, Nationwide assessment of the status of fish habitats: Discussion, thoughts, and insights, Santa Barbara, California, January 2008.

Manuscript reviewer

American Midland Naturalist, American Water Resources Association, Biological Conservation, BioScience, Diversity and Distributions, Environmental Management, Fish and Fisheries, Fisheries, Fisheries Management and Ecology, Freshwater Science, Frontiers in Environmental Science, Global Change Biology, Hydrobiologia, Journal of the American Water Resources Association, Journal of the North American Benthological Society, Journal of Great Lakes Research, Landscape Ecology, Limnologica, North American Journal of Fisheries Management, Transactions of the American Fisheries Society

PROFESSIONAL SOCIETY AFFILIATIONS AND SERVICE

- American Fisheries Society, Parent Society and Michigan Chapter
Equal Opportunities Section member
Fish Habitat Section member
Information and Technology Section member
International Section member and representative to the AFS Resource Policy Committee
- Society of Freshwater Science
- Michigan State University Fly Gals
- Michigan State University Environmental Science and Policy Program, <http://www.espp.msu.edu/index.php>