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Professional Preparation

University of Wisconsin	Limnology	Pos. D., 2006
Colorado State University	Ecology	Ph.D., 2004
University of Toronto	Zoology	M.Sc., 2000
University of Toronto	Zoology	B.Sc., 1998

Professional Appointments

Associate Professor	Univ. Washington	2011 - present
Adjunct Research Fellow	Griffith University	2006 - present
Assistant Professor	Univ. Washington	2006 - 2011

Publications

SUMMARY METRICS

Total publications: 165

ISI Web of Science

Publications: 152

Citations: 5,971

h-index: 42

ResearchGate

RG Score: 41.74

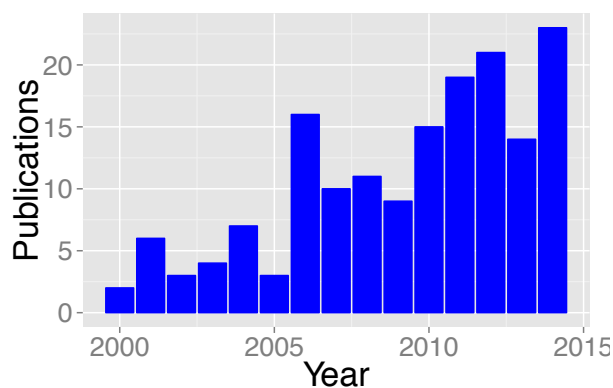
Publication Views: 13,749

Downloads: 9,706

Google Scholar

Citations: 9,909

h-index: 52



2014 and in press

Jaeger, K.L., Olden, J.D., and N.A. Pelland. 2014. Climate change poised to threaten hydrologic connectivity and endemic fishes in dryland streams. *Proceedings of the National Academy of Sciences, USA* 111: 13894-13899.

Olden, J.D., C. Konrad, T. Melis, M. Kennard, M. Freeman, M. Mims, E. Bray, K. Gido, N. Hemphill, D. Lytle, L. McMullen, M. Pyron, C. Robinson, J. Schmidt and J. Williams. 2014. Are large-scale flow experiments informing the science and management of freshwater ecosystems? *Frontiers in Ecology and the Environment* 12: 176-185.

- Tallis, H., Lubchenco, J. and 238 co-authors including J.D. Olden. 2014. A call for inclusion conservation. *Nature* 515: 27-28.
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- Larson, E.R., Gallagher, R.V., Beaumont, L.J., and J.D. Olden. 2014. Generalized “avatar” niche shifts improve distribution models for invasive species. *Diversity and Distributions* 20: 1296-1306.
- Kuehne, L.M., Twardochleb, L.A., Fritschie, K.J., Mims, M.C., Lawrence, D.A., Gibson, P.P., Stewart-Koster, B. and J.D. Olden. 2014. Practical science communication strategies for graduate students. *Conservation Biology* 28: 1225-1235.
- Kuehne, L.M. and J.D. Olden. 2014. Ecology and conservation of mudminnow species worldwide. *Fisheries* 39: 341-351.
- Guo, Q. and J.D. Olden. 2014. Spatial scaling of non-native fish richness across the United States. *PLoS ONE* 9(5): e97727.
- Strecker, A.L., and J.D. Olden. 2014. Fish species introductions provide novel insights into the patterns and drivers of phylogenetic structure in freshwaters. *Proceedings of the Royal Society of London, Series B* 281: 20133003.
- Ibáñez, I., Diez, J.M., Miller, L.P., Olden, J.D., Sorte, C.J.B., Blumenthal, D. Bradley, B.A., D.M., D’Antonio, C.M., Dukes, J.S., Early, R.I., Grosholz, E.D., and J.J. Lawler. 2014. Integrated assessment of biological invasions. *Ecological Applications* 24: 25-37.
- Thomsen, M.S., Byers, J.E., Schiel, D.R., Bruno, J.F., Olden, J.D., Wernberg, T. and B.R. Silliman. 2014. Impacts of marine invaders on local communities depend on relative trophic position and functional similarity. *Marine Ecology Progress Series* 495: 39-47.
- Gibson, P.R. and J.D. Olden. 2014. Ecology, management, and conservation implications of North American beaver (*Castor canadensis*) in dryland streams. *Aquatic Conservation* 24: 391-409.
- Stewart-Koster, B., Olden, J.D., and Gido, K.B. 2014. Quantifying flow–ecology relationships with functional linear models. *Hydrological Sciences Journal* 59: 1-16.
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- Lawrence, D.J., Stewart-Koster, B., Olden, J.D., Ruesch, A.S., Torgersen, C.E., Lawler, J.J., Butcher, D.P., and J.K. Crown. 2014. The interactive effects of climate change, riparian management, and a non-native predator on stream-rearing salmon. *Ecological Applications* 24: 895-912.
- Thomsen, M.S., Wernberg, T., Olden, J.D., Byers, J.E., Bruno, J.F., Silliman, B.R., and D.R. Schiel. 2014. Forty years of experiments on invasive species: are study biases limiting our understanding of impacts? *NeoBiota* 22: 1-22.
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- Hale, J., Mims, M.C., Bogan, M.T. and J.D. Olden. In press. Links between two interacting factors - novel habitats and non-native predators - and aquatic invertebrate communities in a dryland environment. *Hydrobiologia*.
- Tabor, R.A., Lantz, D.W., Olden, J.D., Berg, H.B., and F. T. Waterstrat. In press. Assessment of introduced prickly sculpin populations in mountain lakes in two areas of western Washington State. *Northwest Science*.
- Cañedo-Argüelles, M., Boersma, K.S., Bogan, M.T., Lytle, D.A., Olden, J.D., Phillipsen, I., and T.A. Schriever. In press. Dispersal strength determines meta-community structure in a dendritic riverine network. *Journal of Biogeography*.
- Phillipsen, I., Kirk, E., Bogan, M.T., Mims, M.C. Olden, J.D., and D.A. Lytle. In press. Dispersal ability and habitat requirements determine landscape-level genetic patterns in desert aquatic insects. *Molecular Ecology*.
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2013

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- Twardochleb, L.A., Olden, J.D., E.R. Larson. 2013. A global meta-analysis of the ecological impacts of non-native crayfish. *Freshwater Science* 32: 1367-1382.
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2012

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- Pool, T.K., and J.D. Olden. 2012. Taxonomic and functional homogenization of a globally endemic desert fish fauna. *Diversity and Distributions* 18:366-376.
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2011

Olden, J.D., Vander Zanden, M.J., and P.T.J. Johnson. 2011. Assessing ecosystem vulnerability to invasive rusty crayfish (*Orconectes rusticus*). *Ecological Applications* 21: 2587-2599.

Olden, J.D., Lockwood, J.L. and C.L. Parr. 2011. Species invasions and the biotic homogenization of faunas and floras. Pages 224-243 in *Conservation Biogeography*, ed. Whittaker, R.J. and R.J. Ladle. Wiley-Blackwell.

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Stewart-Koster, B., Olden, J.D., Kennard, M.K., Pusey, B.J. Boone, E.L., Douglas, M. and S. Jackson. 2011. Fish response to the temporal hierarchy of the natural flow regime in the Daly River, northern Australia. *Journal of Fish Biology* 79: 1525-1544.

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2010

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2007

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Olden, J.D., Hogan, Z.S., and M.J. Vander Zanden. 2007. Small fish, big fish, red fish, blue fish: size-biased extinction risk of the world's freshwater and marine fishes. *Global Ecology and Biogeography* 16:694-701.

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- Olden, J.D., and N.L. Poff. 2005. Long-term trends in native and non-native fish faunas of the American Southwest. *Animal Biodiversity and Conservation* 28:75-89.

- Olden, J.D., Douglas, M.E., and M.R. Douglas. 2005. The human dimensions of biotic homogenization. *Conservation Biology* 19:2036-2038.
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- Olden, J.D., Schooley, R.L., Monroe, J.B., and N.L. Poff. 2004. Context-dependent perceptual ranges and their relevance to animal movements in landscapes. *Journal of Animal Ecology* 73:1190-1194.
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- Olden, J.D. and N.L. Poff. 2004. Clarifying biotic homogenization. *Trends in Ecology and Evolution* 19:283.
- Vander Zanden, M.J., Olden, J.D., Thorne, J.H., and N.E. Mandrak. 2004. Predicting the occurrence and impact of bass introductions on temperate lake food webs. *Ecological Applications* 14: 132-148.

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- Olden, J.D. and N.L. Poff. 2003. Toward a mechanistic understanding and prediction of biotic homogenization. *American Naturalist* 162:442-460.
- Olden, J.D. 2003. A species-specific approach to modeling biological communities and its potential for conservation. *Conservation Biology* 17:854-863.
- Olden, J.D. and N.L. Poff. 2003. Redundancy and the choice of hydrologic indices for characterizing streamflow regimes. *River Research and Applications* 19:101-121.

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- Olden, J.D. and D.A. Jackson. 2002. A comparison of statistical approaches for modeling fish species distributions. *Freshwater Biology* 47:1976-1995.
- Olden, J.D. and D.A. Jackson. 2002. Illuminating the "black box": Understanding variable contributions in artificial neural networks. *Ecological Modelling* 154:135-150.

Olden, J.D., Jackson, D.A., and P.R. Peres-Neto. 2002. Predictive models of fish species distributions: A comment on proper validation and chance predictions. *Transactions of the American Fisheries Society* 131:329-336.

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Olden, J.D. and D.A. Jackson. 2001. Fish-habitat relationships in lakes: Gaining predictive and explanatory insight using artificial neural networks. *Transactions of the American Fisheries Society* 130:878-897.

Olden, J.D. and B.D. Neff. 2001. Cross correlation bias in lag analysis of aquatic time series. *Marine Biology* 138:1063-1070.

Olden, J.D., Jackson, D.A., and P.R. Peres-Neto. 2001. Spatial isolation and fish communities in drainage lakes. *Oecologia* 127:572-585.

Peres-Neto, P.R., Olden, J.D., and D.A. Jackson. 2001. Environmentally constrained null models: Site suitability as occupancy criterion. *Oikos* 93:110-120.

Peres-Neto, P.R. and J.D. Olden. 2001. Assessing the robustness of randomization tests: Examples from behavioural studies. *Animal Behaviour* 61:79-86.

Jackson, D.A., Peres-Neto, P.R., and J.D. Olden. 2001. What controls who is where in freshwater fish communities: The roles of biotic, abiotic and spatial factors? *Canadian Journal of Fisheries and Aquatic Science* 58:157-170.

2000

Olden, J.D. 2000. An artificial neural network approach for studying phytoplankton succession. *Hydrobiologia* 436:131-143.

Olden, J.D. and D.A. Jackson. 2000. Torturing the data for the sake of generality: How valid are our regression models? *Écoscience* 7:501-510.

Reports

Olden, J.D., Reidy Liermann, C.A., Pusey, B.J., and M.J. Kennard. 2009. Protocols for hydrologic classification and a review of Australian applications. Chapter 2 in *Ecohydrological regionalisation of Australia: a tool for management and science*. 28 pages. Technical Report PN22591, Land and Water Australia. Online: <http://lwa.gov.au/products/pn22591>.

Steward, B. and 25 other contributors. 2009. Evolving hazards and emerging opportunities. Chapter 12 in *The 3rd United Nations World Water Development Report: Water in a Changing World (WWDR-3)*. 15 pages. Online: <http://www.unesco.org/water/wwap/wwdr/wwdr3/>.

Non-refereed publications

Schlaepfer, M., Aukema, J.E., Grant, J., Halpern, B., Hoekstra, J., Kareiva, P., Lawler, J., Manolis, J.C., Nelson, C.R., Olden, J.D., Silliman, B., Stephens, S., Wiens, J. and P. Zaradic. 2005. Re-wilding: A bold plan that needs native megafauna. *Nature* 437:951-951.

Olden, J.D. 2003. Colorado State University Student Subunit. *Fisheries* 28:28.

Articles in peer review

- Fritschie, K. and J.D. Olden. Nonnative species decrease the long-term stability of river fish communities. *Proceedings of the Royal Society of London, B*.
- Kuehne, L. and J.D. Olden. Small step for scientists equals large leap for science communication. *PNAS*.
- Spencer, B., J.J. Lawler, C. Lowe, L. Thompson, T. Hinckley, S.-H. Kim, S. Bolton., S. Meschke, J.D. Olden, and J.G. Voss. Case studies in co-benefit approaches to climate change mitigation and adaptation. *Journal of Environmental Planning and Management*.
- Stewart-Koster, B., Olden, J.D., P. T.J. Johnson. Integrating landscape connectivity and invasion vulnerability to guide offensive and defensive invasive species management. *Journal of Applied Ecology*.
- Dong, X., Muneeppeerakul, R., Olden, J.D., and D.A. Lytle. The effect of spatial configuration of habitat capacity on β diversity: a statistical artifact or an ecological mechanism? *Ecosphere*.
- Lawrence, D.J., D.A. Beauchamp, and J.D. Olden. Physiology defines invasion extent of a riverine fish. *Journal of Animal Ecology*.
- Van Damme, P.A, Coca Méndez, C., Zapata, M. Carvajal-Vallejos, F.M., Carolsfeld, J. and J.D. Olden. The invasion of *Arapaima gigas* (Schinz, 1822) in the Bolivian Amazon. *Aquatic Invasions*.
- Chunlong, L., Chen, Y., Olden, J.D., He, D., Sui, X., and Ding, C. Phenotypic plasticity in life history traits influence invasion success of goldfish (*Carassius auratus*) in the Yarlung Tsangpo River, Tibet. *Transactions of the American Fisheries Society*.
- Januchowski-Hartley, S.R., Olden, J.D., and W. J. Palen. Ensuring social and environmental sustainability in the new age of hydropower under President Obama's All-of-the-above Energy Strategy. *Science*.
- Twardochleb, L.A and J.D Olden. Non-native Chinese mystery snail in lake food webs: prey resource or trophic cul-de-sac? *Oecologia*.
- Comte, L., Cucherousset, J., Boulêtreau, S. and J.D. Olden. Global patterns and drivers of trophic diversity reveal community assembly rules in freshwater fish. *Global Ecology and Biogeography*.

Presentations (first author and invited only)

- Running out of river: Will freshwater fishes keep pace with climate change? 2014. Joint Aquatic Sciences Meeting. Portland, United States. [*Keynote*]
- Traits-based approaches and the quest for generality over contingency in ecology. 2014. Ecological Society of America, Sacramento, United States. [*Invited*]
- Confirmation bias and rethinking the scientific discourse of non-native species. 2014. Society for Conservation Biology, Missoula, United States. [*Invited*]
- Fish out of water: Will freshwater fishes keep pace with climate change? 2013. International Symposium of Riverine Landscape. Yueyang, China. [*Keynote*]
- Invasive species: A Janus approach to science, management and policy. 2013. Brazilian Meeting of Ichthyology. Maringa, Brazil [*Invited*]
- Invasive species: Beyond taxonomy: A traits-based approach to fish community ecology. 2013. Brazilian Meeting of Ichthyology. Maringa, Brazil [*Invited*]

Emerging vectors of biological invasions in the electronic commerce era. 2012. National Invasive Species Council - Advisory Committee. Portland, OR. [*Invited*]

Invasive crayfish removal. 2012. Western Regional Panel on Aquatic Invasive Species. Portland, OR. [*Invited*]

Invasive species: Envisioning alternative global futures in the New Pangaea. 2012. Portland State University. [*Keynote*]

Climate change and invasive species in hot pursuit of Pacific salmon. 2012. Annual meeting of the Wildlife Society. Portland, OR. [*invited*]

Invasive species in hot pursuit of Pacific salmon. 2012. Congress of the Iberian Association of Limnology, Guimarães, Portugal. [*Keynote*]

Invasive species: Exonerating crimes to envision a new global future. 2011. University of Washington Dean's Lecture. Seattle, Washington. [*Keynote*]

Invasive species and alternative global futures for freshwater ecosystems. 2011. Fishery Society of the British Isles conference, Bournemouth, UK. [*Keynote*]

Invasive species and alternative global futures for freshwater ecosystems. 2011. Canadian Conference for Fisheries Research, Toronto, Canada. [*Keynote*]

Freshwater protected areas and defining a conservation blueprint for desert fishes. 2011. University of British Columbia, Vancouver, Canada. [*invited*]

Invasive species and alternative global futures for freshwater ecosystems. 2011. Canadian Aquatic Invasive Species Network, Quebec City, Canada. [*Keynote*]

Latent extinction risk of freshwater fishes: a traits-based approach to inform conservation ranking schemes. 2010. Society for Conservation Biology, Edmonton, Alberta. [*invited*]

Freshwaters in the public eye: understanding the role of science and image media in aquatic conservation. 2010. Utah State University. UT (Ecology Center Seminar). [*invited*]

Perceptions and realities of aquatic invasive species. 2010. Utah State University. UT (Ecology Center Seminar). [*invited*]

Species invasions, environmental change and the future biogeography of freshwater fishes. 2009. The 10th International Congress of Ecology. Brisbane, Australia. [*invited*]

The biogeography of nowhere: Species invasions and the fading antiquity of globe fish faunas. 2009. The 10th International Congress of Ecology. Brisbane, Australia. [*invited*]

Turning dreams into reality: challenges to developing flow-ecological relationships to support streamflow management. 2009. North American Benthological Society, Grand Rapids, MI. [*invited*]

Emerging pathways for crayfish invasions in Washington: Recommendations for new regulations. 2008. Washington State Aquatic Nuisance Species Committee, Olympia, WA.

Vulnerability of lake ecosystems to species invasions in Washington. 2008. Washington State Lake Protection Association, WA.

Life history strategies and patterns of fish invasions and extirpations in Lower Colorado River Basin. 2008. Texas State University, San Marcos, TX. [*invited*]

Developing regional environmental flow standards for Washington State. 2008. American Fisheries Society (Western Division), Portland, OR.

Riverine thermal regimes: an integral component of environmental flows. 2007. 3rd International Symposium on Riverine Landscapes (TISORL), Queensland, Australia. [invited]

Smart prevention of invasive species in aquatic ecosystems. 2007. Oregon State University, Corvallis, OR. [invited]

Smart prevention of invasive species in aquatic ecosystems. 2007. NOAA Northwest Fisheries Science Center, Seattle, WA. [invited]

The biogeography of nowhere: Global fish invasions and the re-shuffling of freshwater life. 2006. Macroecological Tools for Global Change Research, Potsdam, Germany. [invited]

Life-history strategies predict fish invasions and extirpations in the Colorado River Basin. 2006. Kansas State University, Manhattan, KS. [invited]

Global pathways of freshwater fish introductions. 2006. American Fisheries Society, Lake Placid, NY.

Living on the edge: trait synergies and the rarity, extirpation, and extinction of endemic desert fishes. 2005. Ecological Society of America, Quebec, Canada.

Comparative life-history strategies of native and non-native fishes in the Colorado River Basin: Using species traits to understand rates of invasions and extirpations over the past century. 2005. North American Benthological Society, New Orleans, LA. [invited]

Biotic homogenization – Patterns, processes and the importance of variety in the spice of human life. 2005. International Biogeography Society, West Virginia, USA. [invited]

Spatial recovery of warmwater fish assemblages to multiple disturbance gradients caused by river regulation in the eastern United States. 2005. Griffith University, Brisbane, Australia. [invited]

Upstream and downstream recovery of fish assemblages to multiple dam disturbance gradients. 2005. American Fisheries Society, Madison, WI.

Forecasting current and future patterns of biotic homogenization in response to urbanization. 2005. Society for Conservation Biology, New York, NY. [invited]

A hierarchical understanding and prediction of fish species distributions in Canada. 2004. Massey University, Palmerston North, New Zealand. [invited]

Impacts of altered riverine thermal regimes on warmwater fish assemblages – the establishment of productive tailwater trout fisheries, but at what cost? 2004. American Fisheries Society (Southern Division), Oklahoma City, OK.

A hierarchical understanding and prediction of fish species distributions in Ontario. 2003. Canadian Conference for Fisheries Research, Toronto, Ontario, Canada.

Movement mechanics and behaviour of an herbivorous insect larva across complex benthiscapes. 2002. North American Benthological Society, Pittsburg, PE.

Artificial neural networks and the development of predictive models for temperate fish communities. 2001. Canadian Conference for Fisheries Research, Toronto, Ontario, Canada.

Artificial neural networks: New insight in modeling fish-habitat relationships. 2001. International Association for Great Lakes Research, Trois-Riviere, Ontario, Canada.

The use of regression trees and neural networks to model freshwater fish assemblages. 1999. Ecological Society of America, Spokane, WA

Grants

Department of Defense. <i>Flow-population models for tracking non-stationary changes in riparian and aquatic ecosystems</i> (2014-2018). Co-PI	\$1,630,000
U.S. Fish and Wildlife Service. <i>Assessing aquatic integrity in western United States</i> (2013-14). Lead-PI	\$170,000
Washington State Department of Ecology. <i>Does aquatic weed management promote habitat restoration for Olympic mudminnow?</i> (2013-15). Lead PI	\$60,462
Washington Department of Fish and Wildlife. Engaging volunteers in the whole-lake eradication of invasive red swamp crayfish. (2013-15). Lead PI	\$8,438
Department of Defense. <i>Predicting, measuring, and monitoring aquatic invertebrate biodiversity on dryland military bases.</i> (2012-2016). Co-PI	\$1,560,000
Department of Defense. <i>Hydroecology of intermittent and ephemeral streams: will landscape connectivity sustain aquatic organisms in a changing climate?</i> (2010-2014). Lead-PI	\$1,478,000
U.S. Geological Survey (Aquatic GAP Program). <i>Conservation planning for fishes in the Upper Colorado River Basin</i> (2010-2013). Co-PI	\$780,000
U.S. Geological Survey (National Fish Habitat Action Plan). <i>Managing the Nations fish habitat at multiple spatial scales in a rapidly changing climate</i> (2010-2012). Co-PI	\$2,418,000
U.S. Geological Survey (National Fish Habitat Initiative). <i>Assessing the threats to freshwater fishes in the Lower Colorado River Basin</i> (2009-2011). Co-PI	\$379,000
Oregon Zoo. <i>Forecasting the potential spread and impacts of invasive crayfish in the northwestern United States</i> (2009). Co-PI	\$4,300
Washington State Department of Ecology. <i>Prioritizing management efforts for aquatic nuisance species in Washington</i> (2009-2010). Lead PI	\$40,900
U.S. Environmental Protection Agency - STAR Program. <i>Integrating future climate change and riparian land-use to forecast the effects of stream warming on species invasions and their impacts on native salmonids</i> (2008-2011). Lead-PI	\$587,000
U.S. Geological Survey (Aquatic GAP Program). <i>Forecasting fish species invasions in the Lower Colorado River Basin</i> (2007-2010). Lead-PI	\$165,000
National Oceanic and Atmospheric Administration. <i>Non-native species impacts on threatened and endangered salmonids</i> (2008-2009). Co-PI	\$18,000
National Oceanic and Atmospheric Administration. <i>Developing tools for estimating salmon population benefits of restoring environmental flows to regulated or diverted tributaries</i> (2008-2009). Co-PI	\$87,000
National Oceanic and Atmospheric Administration. <i>Ecologically sustainable water management in Washington State: Developing flow management tools for watershed planning</i> (2007-2008). Co-PI	\$84,000
The Nature Conservancy David Smith Conservation Postdoctoral Fellow (2004).	\$155,000
National Science Foundation – Dissertation Improvement Grant (2004).	\$11,600
Natural Sciences and Engineering Research Council of Canada – Graduate Fellowship PGS A (1999) and B (2001).	\$72,800

Awards

Aldo Leopold Leadership Fellow, Stanford Woods Institute for the Environment (2015-2016)
Ecological Society of America – Early Career Fellow (2013)
UW School of Aquatic and Fishery Sciences, H. Mason Keeler Endowed Professor (2012-2014)
Canadian Conference for Fisheries Research, Stevenson Award (2011)
UW College of the Environment, Outstanding Researcher Award (2010)
Society for Conservation Biology, Early Career Conservationist Award (2010)
American Fisheries Society, Skinner Memorial Award (2004)
Society for Conservation Biology, Annual Student Travel Award (2004)
American Fisheries Society, Jimmie Pigg Memorial Outstanding Achievement Award (2004)
American Fisheries Society, Colorado State University Outstanding Contribution Award (2003)
American Museum of Natural History, Theodore Roosevelt Memorial Scholarship (2003)
American Fisheries Society Western Division, William Trachtenberg Scholarship (2003)
Cowpasture River Preservation Association, Janice LaRue Grant (2003)
Canadian Conference for Fisheries Research, Clemens, Rigler Travel Award (2003)
Ocean Journal Research Scholarship (2002)
Colorado State University, Ecology Research Grant (2002)
Transactions of the American Fisheries Society, Robert L. Kendall Best Paper Award (2001)
International Association for Great Lakes Research, Presentation Award Honorable (2001)
University of Toronto, Frederick P. Ide Graduate Award (2001)
Outstanding Teaching Assistant Award, University of Toronto (2000)
Outstanding Teaching Assistant Award, University of Toronto (1999)
University of Toronto, Edna Margaret Robertson Scholarship (1999)
University of Toronto Open Fellowship (1998)

Teaching Experience

Applied Multivariate Statistics for Ecologists (FISH 560, Graduate), UW (2007-present)
Aquatic Invasion Ecology (FISH 423, Undergraduate), Univ. Washington (2007-present)
Water and Society (FISH 101, Undergraduate), Univ. Washington (2010-present)
Ecological Informatics (Graduate), Colorado State University (2005–2006)
Limnology (FISH 473), Univ. Washington (Guest Lecture)
Exploring Environmental Majors at the UW (GEN ST 197), Univ. Washington (Guest Lecture)

Synergistic Activities

Doris Duke Conservation Scholars Program, Steering Committee – University of Washington (2013-present): This ambitious project seeks to shift the demographic landscape at major conservation institutions to more accurately reflect the multicultural, multiethnic and interdisciplinary society of today and tomorrow. A tightly-bound cohort of undergraduates from across the nation participates in a 3-year journey exploring why conservation can make a difference.

Freshwater Working Group, Board Member - Society of Conservation Biology (2013-present): Working group that reports directly to SCB Executive Office on matters related to the

biggest pressures and key processes threatening freshwater ecosystems and consequences for human livelihood and health.

Policy Rapid Response Team - Ecological Society of America (2012-present): Working closely with the ESA's Public Affairs Office to identify the potential ecological consequences of proposed federal regulations and legislation, respond quickly to media inquiries, assist ESA with position statements, present ecological research at ESA congressional briefings, and interact with congressional offices.

Science Communication Task Force, Member - College of the Environment, University of Washington (2012-present): Developing the College's position statement on advancing science communication by faculty, staff and graduate students. The task force is charged with changing the culture of science communication in the College by seeking opportunities to better engage in outreach.

National Invasive Species Council – Advisory Committee (2012): Provided expertise regarding emerging vectors of biological invasions in the United States associated with the electronic commerce era.

Freshwaters Illustrated, Board of Directors (2010-present): Serving on the Board of Directors for this nonprofit organization whose mission is to educate diverse public audiences about the life, study, and conservation of freshwater ecosystems through illustrative science-based efforts, and to provide illustrative resources and services to scientists, educators, and media specialists.

Climate Change and Global Health Joint Initiative Faculty Fellow - University of Washington (2010-present): A trans-disciplinary initiative that focuses on food security and water resources, where 10 faculty fellows collaborate to realize new approaches to water and food security at the intersection of ecosystems and human health.

Principal Investigator, Schools and Science Curricula as Potential Pathways for Aquatic Invasive Species (2010 – present): Project with multiple partners in the U.S and Canada developing tools and products that can help prevent new invasions while maintaining live organisms as a learning tool in the classroom.

National Center for Ecological Analysis and Synthesis, Evaluating responses of freshwater ecosystems to experimental water management. Santa Barbara, CA. (2009-2011): Co-PI for an expert workshop focusing the science, management and policy of large-scale water resource strategies aimed at improving freshwater ecosystem health and meeting human demands for fresh water.

Editor for Ecological Applications (2013-present), *Frontiers in Ecology and the Environment* (2010-present), *Elementa* (2012-present), *Ideas in Ecology and Evolution* (2008-present), *Conservation Biology* (2010-2012), *Global Ecology and Biogeography* (2006-2010): Dedicated service to science through editorial excellence to multiple scientific journals.

Hutton Scholar Mentor - American Fisheries Society (2009, 2011, 2012, 2013): Dedicated mentor to high school students seeking experience in the environmental sciences.

David H. Smith Conservation Research Fellowship (2004-2006): The Smith Fellowship Program seeks to develop future world leaders and entrepreneurs who link conservation science and application.

International Congress of Ecology, Symposium Species invasions, environmental change and the future biogeography of freshwater fishes. Brisbane, Australia. 2009. Organizer.

California State Water Resources Control Board. 2011 & 2014. Expert reviewer.

Ecological Society of America, First Millennium Conference – Water-Ecosystem Services, Drought, and Environmental Justice (Workshop). Athens, GA. 2009. Participant.

U.S. Geological Survey and Grand Canyon Monitoring and Research Center – Independent Panel Review, Phoenix, AZ. 2008. Participant.

Canadian Aquatic Invasive Species Network (Workshop) – Environmental niche modeling to match invasion habitats between North America and Europe. Halifax, NS. 2008. Participant.

Regional-scale streamflow-ecology relationships (Workshop), TNC/USGS, Seattle, WA. 2008. Participant.

Instream Flow / Viable Salmonid Population Science (Workshop), Department of Ecology, Seattle, WA. 2008. Participant.

Global Water System Project (Workshop). University of New Hampshire. 2007. Participant.

Northwest Power and Conservation Council, ISAB review. 2007-2008. Ad Hoc member.

National Center for Ecological Analysis and Synthesis (Workshop), Machine Learning for the Environment. Santa Barbara, CA. 2006. Participant.

Upper Gila River Science Forum for the New Mexico Interstate Stream Commission. New Mexico. 2006. Panel Expert.

Environmental Law Institute (Workshop) – Assessing Gaps and Needs for Invasive Species Management in a Changing Climate. Washington, D.C. 2006. Participant.

National Center for Ecological Analysis and Synthesis (Workshop), *Assessing the Future Research Needs for the USGS Aquatic GAP Program*. Santa Barbara, CA. 2006. Participant.

Global River Sustainability Project (Workshop). Estes Park, CO. 2005. Participant.

Global River Sustainability Project (Workshop). Brisbane, Australia. 2004. Participant.

University Service

Mentorship

Graduate Students

Erika Sutherland, MS (2013-present)
 Will Chen, MS (2014-present)
 Keith Fritschie, MS (2012-present)
 Laura Twardochleb, MS (2011-present)
 Meryl Mims, MS (2009-2010), PhD (2011-present)
 Polly Gibson, MS (2011-2013)
 David Lawrence, PhD (2009-2013)
 Lauren Kuehne, MS (2009-2012)
 Eric Larson, PhD (2008-2011)
 Thomas Pool, PhD (2008-2011)

Undergraduate Students (20+)*

Phillip Campbell (2008)
 Chris Biggs (2010)
 Kimberly Wood (2011)
 Sean Luiz (2011)
 Jessie Hale (2014)

* selected students with publications

Research Staff

Lauren Kuehne (2012-present)
 Mariana Tamayo (2009-2011)

Post-doctoral Researchers

Xingli Giam (2014-present)
 Renata Frederico (2014-present)

Lise Comte (2014-present)
Ben Stewart-Koster (2011-2013)
Kristin Jaeger (2010-2012)
Angela Strecker (2009-2011)
Cathy Reidy Liermann (2008-2010)

Committee Member (past and present)

30 graduate students (University of Washington, Rutgers University, Kansas State University)

School and University Committees

Science Communication Advisory Group (2014-present)
Quantitative Ecology and Resource Management Program (2014-present)
Curriculum Committee (2013-present)
Recruiting and Admission School Committee (2008-2013)
Quantitative Committee, Ad Hoc member (2009)
Young Investigator Seminar Series, Co-organizer (2008)

Scholarly and Professional Activities

Professional

Ecological Applications, Editorial Board (2013-present)
Frontiers in Ecology and the Environment, Editorial Board (2010-present)
Elementa, Editorial Board (2013-present)
Ideas in Ecology and Evolution, Editorial Board (2008-present)
Conservation Biology, Editorial Board (2010 – 2012)
Global Ecology and Biogeography, Editorial Board (2006 – 2010)
Washington State Aquatic Nuisance Species Committee, Member (2008-present)
Freshwater Illustrated, Board of Directors (2007-present)

Journal Referee (examples):

American Naturalist	Ecology	NA J. of Fisheries Man.
Aquatic Invasions	Ecology Letters	Northwest Science
Archiv für Hydrobiologie	Ecological Applications	Phil. Trans. R. Soc. London
Biological Conservation	Global Ecol. and Biogeog.	Proc. Nat. Ad. of Sciences
Biological Invasions	Hydrobiologia	River Research & App
Can. J. Fish & Aquatic Sci.	Journal of Applied Ecology	Science
Copeia	Journal of Biogeography	Trans. Am. Fisheries Soc.
Conservation Biology	Landscape Ecology	Western NA Naturalist.
Diversity and Distributions	Nature	

Referee for Granting Agencies (examples)

National Science Foundation
National Science and Engineering Research Council

National Fish and Wildlife Foundation
New York Sea Grant
Great Lakes Fisheries Commission

Media Coverage

See <http://fish.washington.edu/research/oldenlab/>

Society Memberships

Ecological Society of America (2000-present)
American Fisheries Society (2000-present)
North American Benthological Society (2002-present)
Society for Conservation Biology (2004-present)