

LILLIAN M. MCGILL



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EDUCATION

Ph.D. University of Washington, Seattle, Washington

September 2016 – Present

Quantitative Ecology and Resource Management

Advisors: Co-advised by Drs. E. Ashley Steel and Gordon Holtgrieve

B.S. University of Notre Dame, Notre Dame, Indiana

August 2012 – May 2016

Environmental Science, Applied and Computational Mathematics and Statistics, Minor in Glynn Family Honors Program

Honors Thesis: Use of an ecosystem based model to evaluate the effects of nonnative Pacific salmon spawning on stream resident fish contaminant loads in the Great Lakes Basin.

Advisors: Co-advised by Drs. Gary Lamberti and Dominic Chaloner

PUBLICATIONS & REPORTS

1. B. Brown, A.H. Fullerton, D. Kopp, F. Tromboni, A. Shogren, J.A. Webb, C. Ruffing, M. Heaton, L. Kuglerova, D. Allen, **L.M. McGill**, J. Zarnetske, M. Whiles, J. Jones, B. Abbot. In Review. The music of rivers: How the mathematics of waves reveals global drivers of streamflow regime. *Global Biogeochemical Cycles*.
2. S. McNulty, E.A. Steel, E. Springgay, B. Caldwell, K. Shono, G. Pess, S. Funge-Smith, W. Richards, S. Ferraz, D. Neary, J. Long, B. Verbist, J. Leonard, G. Sun, T. Beechie, M. Lo, **L.M. McGill**, A.H. Fullerton, S. Borelli. Managing Forests for Water, pp 31-73. In FAO, IUFRO and USDA. 2021. A guide to forest-water management. FAO Forestry Paper No. 185. Rome
3. **L.M McGill**, J.R. Brooks, E.A Steel. 2021. Spatiotemporal dynamics of water sources in a mountain river basin inferred through $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of water. *Hydrological Processes*. 35(3): e14063.
4. **L.M McGill**, E.A Steel, J.R. Brooks, A.H. Fullerton, R.T. Edwards. 2020. Elevation and spatial structure explain most surface-water isotopic variation across five Pacific Coast basins. *Journal of Hydrology*. 583: 124610.
5. N. Weber, B. Gerig, **L.M McGill**, D.T. Chaloner, G.A. Lamberti. 2018. Interactive effects of introduced Pacific salmon and brown trout on native brook trout: an experimental and modeling approach. *Canadian Journal of Fisheries and Aquatic Sciences*. 75(4): 538-548.
6. **L.M McGill**, B. Gerig, D.T. Chaloner, G.A. Lamberti. 2017. An ecosystem model for evaluating the effects of introduced Pacific salmon on contaminant burdens of stream-resident fish. *Ecological Modelling*. 355: 39–48.

FELLOWSHIPS

- 2018-23: National Science Foundation Graduate Research Fellowship (3 years graduate tuition + stipend)
- 2017-18: Northwest Climate Science Center Actionable Science Fellowship (1 year graduate tuition + stipend)
- 2016-17: UW QERM First Year Fellowship (3 quarters graduate tuition + stipend)
- 2015: University of Michigan CILER Great Lakes Summer Research Fellowship (\$6,000)
- 2014: Note Dame College of Science Undergraduate Summer Research Fellowship (\$5,000)

AWARDS & PROGRAMS

- 2021: Watershed Statistician Consultant for the United Nations Food and Agriculture Organization Forestry Division
- 2019-2020: Stream Resiliency Research Coordination Network Member
- 2019: National Science Foundation Graduate Research Internship Program (\$5,000)
- 2019: University of Utah Isotopes in Spatial Systems Short Course Participant
- 2018: UW College of the Environment Student Organized Meeting Fund Award to support WaterHackWeek (\$1,500)
- 2018: Society for Freshwater Science Best Presentation Emphasizing Methodology (\$250)
- 2016-Present: Annual Conference Travel Award



PRESENTATIONS (* poster presentation, Φ invited presentation)

- Φ **L.M McGill**, G. Holtgrieve. Hydrologic change and spatial covariance among time series of river discharge across Western North American. School of Aquatic and Fishery Sciences Quantitative Seminar. *November 2021*.
- L.M McGill**, G. Holtgrieve. Hydrologic change and spatial covariance among time series of river discharge across Western North American. School of Aquatic and Fishery Sciences Graduate Student Symposium. *November 2020*.
- L.M McGill**, G. Holtgrieve. Assessing hydrologic regime shifts and spatial covariance among time series of river discharge across Western North American. PNW Society for Freshwater Science Conference. *November 2020*.
- Φ**L.M McGill**, E.A. Steel, J.R. Brooks. The spatial and temporal dynamics of water sources across the Snoqualmie River: a stable isotope approach. Snoqualmie Science Coordination and Advisory Team Meeting. *April 2020*.
- ***L.M McGill**, E.A. Steel, J.R. Brooks, A. Fullerton. The spatial and temporal dynamics of water sources across the Snoqualmie River: a stable isotope approach. American Geophysical Union Fall Meeting. *December 2019*.
- ***L.M McGill**, E.A. Steel, J.R. Brooks, A. Fullerton. Examining spatial patterns of water stable isotopes across multiple river basins. Graduate Climate Conference. *November 2018*.
- L.M McGill**, E.A. Steel, J.R. Brooks, A. Fullerton. Examining spatial patterns of water stable isotopes across multiple river basins. Society for Freshwater Science Annual Conference. *May 2018*.
- L.M McGill**, E.A. Steel, J.R. Brooks, A. Fullerton. Where does the water come from? Examining spatial patterns of water stable isotopes across multiple river basins. Salish Sea Ecosystem Conference. *April 2018*.
- L.M McGill**, B. Gerig, D.T. Chaloner, and G. A. Lamberti. Use of an ecosystem model for evaluating the effects of introduced Pacific salmon on contaminant burdens of stream-resident fish. Notre Dame College of Science-Joint Annual Meeting. *April 2016*.
- ***L.M McGill**, B. Gerig, D.T. Chaloner, and G. A. Lamberti. Use of an ecosystem-based model to evaluate the effects of non-native Pacific salmon spawning on stream-resident fish in the Great Lakes. Midwest Fish and Wildlife Conference. *January 2016*.
- L.M McGill**, H. Zhang, E. Rutherford, and D. Mason. Forecasting food web dynamics in Lake Erie: Development of the Atlantis Ecosystem Model. CILER Summer Fellowship Presentation. *August 2015*.

LEADERSHIP & VOLUNTEER EXPERIENCE

- Member of the Future of Instream Flows in Washington State Science Panel, *January-June 2021*
- Member of the Quantitative Ecology and Resource Management Executive Committee, *June 2019-September 2020*
- UW WaterHackWeek Student Director, *June 2018-2019*
- Member of the Snoqualmie Science Coordination and Advisory Team, *June 2017-Present*
- UW Freshwater Initiative Student Steering Committee member, *September 2017-2020*
- Volunteer writing mentor for UW NSF GRFP Workshop, *September 2018, 2020, 2021*
- Volunteer with UW Students Exploring Aquatic Sciences, *September 2017- Present*
- Volunteer with Sierra Club Inspiring Connections Outdoors, *September 2016-Present*