

# CURRICULUM VITAE

## Amanda L. Gavin

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## Education

PhD Candidate, Ecology and Environmental Sciences. University of Maine, Orono. September 2021-present

Master of Science, Ecology and Environmental Sciences. University of Maine, Orono, August 2018

Bachelor of Science, Plant Biology-Ecology and Evolution. University of Vermont. Burlington, VT, December 2011

## Research

2021- Systems Approaches to Understanding and Navigating the New Arctic (SAUNNA) NRT. *Advisor:* Dr. Jasmine Saros

2016 – 2018 Research Assistant. Department of Ecology of Environmental Sciences. University of Maine, Orono. *Thesis title:* Physical and Chemical Response of Small, North Temperate Lakes to Recovery from Acidification and Climate Change. *Committee:* Dr. Sarah Nelson (advisor), Dr. Ivan Fernandez, and Dr. Jasmine Saros

## Teaching

2020 Adjunct Faculty. Department of Wildlife, Fisheries, and Conservation Biology. University of Maine, Orono. WLE 455 Wildlife- Habitat Evaluation

2016-2018 Teaching Assistant. University of Maine, Orono  
Introduction to Ecology and Environmental Science, EES 117. Fall 2016  
Critical Issues in Ecology and Environmental Science Policy. EES 489. Fall 2016  
Human Population in the Global Environment. EES 100. Spring 2017  
Human Population in the Global Environment. EES 100. Spring. 2018

2017 National Geographic Student Expeditions Trip Leader. Boulder, Colorado  
Facilitated a 10-day climate change workshop for international high school students at University of Colorado, Boulder.

2015 Outdoor Environmental Educator. Camp Orkila YMCA, Orcas Island, Washington  
Designed and taught outdoor education curriculum for middle school students.

## Relevant Professional Experience

2020- Board of Directors. Maine Lakes Society. Environmental Justice and Education Committees

2018- 2021 Project Manager. FB Environmental Associates  
Manage water quality monitoring, watershed science, and restoration projects in lakes, streams, and estuaries

- 2015 Field Team Leader. United States Forest Service, PACFISH INFISH Biological Opinion Monitoring Program (PIBO MP), Logan, Utah  
Managed an intensive reach scale stream habitat survey throughout Upper Columbia and Missouri River Watershed study area. Supervised 3 satellite research offices/40 technicians
- 2013 - 2014 Montana Satellite Research Station Supervisor. USFS-PIBO MP, St. Regis, Montana  
Managed a research satellite office based in northwestern Montana with oversight of 4 crews/16 technicians implementing an intensive fish habitat and riparian vegetation survey
- 2013 Crew Leader and Biological Vegetation Technician. Biological Vegetation Technician, USFS-PIBO MP, Leadore, Idaho
- 2012 Biological Vegetation Technician. USFS- PIBO MP, Ukiah, Oregon
- 2012 Curatorial and Research Librarian Assistant. Pringle Herbarium. Burlington, VT
- 2011 Water Chemistry Lab Analyst. Department of Environmental Conservation. Waterbury, VT

### Peer Reviewed Journal Publications

Gavin, A. L., S.J. Nelson, A.J. Klemmer, I.J. Fernandez, K.E. Strock, and W.H. McDowell. 2018. Acidification and Climate Linkages to Increased Dissolved Organic Carbon in High-Elevation Lakes. *Water Resources Research*. 54(8), 5376-5393. doi:10.1029/2017wr020963

S.J. Nelson, J. Daly, S. Dykema, A. Gavin, R. Hovel, W. McDowell, 2021. Northeastern mountain ponds as sentinels of change: A synthesis of results documenting acidification and recovery, and a prospectus for research and monitoring linking chemistry and climate interactions. *Atmospheric Environment Special Issue - The 30th Anniversary of the 1990 Clean Air Act Amendments*.

Gavin, A. L., S.J. Nelson, J.E. Saros, M.D. SanClements, and I.J. Fernandez. 2021. Physical and Chemical Controls on Cold-Water Refugia in Small, Northern Temperature Lakes. *Aquatic Sciences*. (*In Review*).

### Reviewer for the following journals:

PLOSOne; Environmental Science and Technology; Great Lakes Research

### Protocols

Archer, Eric K.; Van Wagenen, Andrew R.; Coles-Ritchie, Mark; Ojala, Jeffrey V.; Roseen, Thomas P. and Gavin, Amanda. 2016. PacFish InFish Biological Opinion (PIBO) Monitoring Program: Effectiveness Monitoring Sampling Methods for Riparian Vegetation Parameters.

Archer, Eric K.; Henderson, Richard; Ojala, Jeffrey V.; Gavin, Amanda and Burke, Karen K. 2016. PacFish InFish Biological Opinion (PIBO) Monitoring Program: Effectiveness Monitoring Sampling Methods for Stream Channel Attributes.

### Press

Sidder, A. (2018), Effects of acid rain, climate change on freshwater lakes, *Eos*, 99, <https://doi.org/10.1029/2018EO102063>. Published on 11 July 2018.

### Presentations

Gavin, A.L, 2020. Impacts of DOC quality and quantity on cold-water refugia. Maine Lake Researcher's Retreat. January 2020.

Nelson, S.J., G. Murray, A. Gavin, S. Dykema, J. Daly, R. Hovel, W. McDowell, 2020. Mountain Lakes and Streams: Sentinels of Changing Climate and Air Quality. Appalachian Mountain Club Annual Summit 2020, Norwood, MA, January 25, 2020.

Summers, E.S., Gavin A.L., Bell, F., Russel, R, 2019. Functional Breaking Strength of Vertical Lines in the Gulf of Maine. Right Whale Consortium. November 2019.

Gavin, A.L., Diemer, L., 2019. Connecting Land, Water, and People. Kittery Land Trust. November 2019.

Gavin, A.L., Mills, M., Bell, F., 2019. Observations of Physical Parameters from Continuous Monitoring in Watchic Lake in Standish, Maine. Maine Sustainability and Water Conference. Augusta, Maine. March 2019.

Gavin, A.L., Diemer, L., 2019. Applying an Alternate Approach to Watershed Management for Two New Hampshire Lakes with Unique Water Quality Stressors and Responses. New Hampshire Water and Watershed Conference. March 2019.

Gavin, A.L., Nelson, S.J., Saros, J.E., Fernandez, I.J. Dissolved organic carbon and temperature trends in a subset of Maine lakes. Maine Lake Monitoring Summit. March 2018.

Gavin, A.L., Nelson, S.J., Saros, J.E., Fernandez, I.J. Assessment of dissolved organic carbon trends in Maine lakes. Maine Sustainability and Water Conference. March 2018.

Gavin, A.L., Nelson, S.J., Klemmer, A.J., Fernandez, I.J., Strock, K.E., and McDowell, W.H. (2017) Acidification and climate linkages to increased dissolved organic carbon in high elevation lakes. EPA Long-Term Monitoring Cooperator's Meeting. Schoodic Education and Research Center. June 2017.

Sarah J. Nelson, Rachel A. Hovel (presenter), Julia Daly, Amanda Gavin, Stephanie Dykema and William H. McDowell, 2021. High-elevation lakes. Maine Lake Monitoring Summit April 8, 2021.

S.J. Nelson (presenter), J. Daly, R.A. Hovel, A. Gavin, S. Dykema, W.H. McDowell, 2021. Maine mountain ponds reveal linkages among thermal, geochemical, and biological characteristics in the context of the Northeast's recovery from atmospheric deposition and climate change. 2021. Maine Sustainability and Water Conference, March 31, 2021 (virtual).

Sarah J. Nelson (presenter), Rachel A. Hovel, Julia Daly, Amanda Gavin, Stephanie Dykema and William H. McDowell, 2020. Northeastern mountain ponds as sentinels of change: current and emerging research and monitoring in the context of shifting atmospheric deposition and climate interactions. NADP Fall Meeting and Scientific Symposium, Oct. 26-30, 2020 (virtual).

### **Poster Presentations**

Gavin, A.L., Nelson, S.J., Klemmer, A.J., Fernandez, I.J., Strock, K.E., and McDowell, W.H. (2017) Acidification and climate linkages to increased dissolved organic carbon in high elevation lakes. Water Resources Research. BIOGEOMON. Litomyšl, Czech Republic. August 2017.

Gavin, A.L., Nelson, S.J., Klemmer, A.J., Fernandez, I.J., Strock, K.E., and McDowell, W.H. (2017) Acidification and climate linkages to increased dissolved organic carbon in high elevation lakes. Water Resources Research.

GLEON 19 All Hand's Meeting. New Paltz, NY. November 2017.

**Awards**

Dr. George F. Dow Research Award. University of Maine. 2019.

**Grants**

University of Maine Graduate Student Government Grant Travel to Present Award, \$675.00. 2018

University of Maine Graduate Student Government Grant Travel to Present Award, \$422.50. 2017

University of Maine Graduate Student Government Grant Travel to Present Award, \$425.00. 2017

**Service and Leadership**

Co-Chair. Maine Lakes and Climate Change. Maine Sustainability and Water Conference. Virtual. April 2021

Grant Reviewer, University of Maine Graduate Student Government Grants. 2018

Panel Member, Maine Sustainability and Water Conference. 2018

Grant Reviewer, University of Maine Graduate Student Government Grants. 2017

Co-chair of Long-Term Monitoring Session with John Stoddard and Filip Oulehle at BIOGEOMON conference. 2017

**Certifications**

Wetland Delineator Methods. University of New Hampshire. Durham, NH. 2019

Wilderness First Responder Re-Certification. 2018

Outdoor Emergency Care Technician. 2016

Wilderness First Responder. 2015

Level 1 Avalanche Safety Certification. Utah Mountain Adventures. 2014

Wilderness First Aid. 2009