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Research Interests:

Vernal Pools
Wetland Ecology
Microbial Ecology
Sustainable Science

Aram J. K. Calhoun, Ph.D.

*Professor of Wetland Ecology, Department of Wildlife Ecology, University of Maine
Director, Ecology and Environmental Sciences Program
Researcher and Research Council Member, Sustainability Solutions Initiative*

Profile:

Aram Calhoun is a wetland ecologist and faculty member at the University of Maine. Her research focuses on wetland ecology and policy and vernal pool conservation. Her work stresses the importance of conserving natural resources (wetlands and vernal pools) and/or target species (wood frogs, spotted salamanders, and blue-spotted salamanders) on private lands by addressing both human and ecological dimensions.

Calhoun's research with the Sustainability Solutions Initiative uses local vernal pool conservation as a model to help communities find ways to balance economic development with natural resource conservation on private land. One aspect of Calhoun's research is working with two Maine towns on conservation solutions that involve multiple levels of government, diverse state agencies and private interests for the conservation of vernal pools. Her work also involves working with the Environment and Natural Resources Committee of the State Legislature on the importance of wetland and vernal pool protection.

Calhoun's research has been funded in large part by the U.S. Environmental Protection Agency, National Science Foundation, Maine EPSCoR, and the Senator George J. Mitchell Center and Maine's Sustainability Solutions Initiative. She has published in multiple peer-reviewed journals including Ecology, Biological Conservation, Forest Ecology and Management, Freshwater Biology, Society and Natural Resources, and Wetlands.

Degrees:

University of Maine, Ph.D. (Plant Biology and Microbial Ecology)
University of Rhode Island, M.S. (Natural Resources Science and Wetland Ecology)
Rhode Island College, M.A. (Education)
Brown University, A.B. (American Civilization)

Media Expertise:

Wetland Ecology
Natural resource planning
Herpetology

SSI Projects:

Protecting Natural Resources
at the Community Level
(Vernal Pools)

Student Opportunities:

Doctoral assistantship in
amphibian population
ecology: [http://umaine.edu/
wle/positions-available/](http://umaine.edu/wle/positions-available/)

Courses:

INT 475: Field Studies in Ecology
WLE 423: Wetland Ecology and Conservation
PSE 413/PSE 533: Wetland Mapping and Delineation

Selected Publications:

Jessica S. Jansujwicz, Aram JK Calhoun, Jessica E. Leahy, and Robert J. Lillieholm, "Using Mixed Methods to Develop a Frame-Based Private Landowner Typology," *Society & Natural Resources* ahead-of-print (2013): 1-17.

Sasha E. Greenspan, Aram JK Calhoun, Joyce E. Longcore, and Michael G. Levy, "Transmission of *Batrachochytrium dendrobatidis* to Wood Frogs (*Lithobates sylvaticus*) via a Bullfrog (*L. catesbeianus*) Vector," *Journal of Wildlife Diseases* 48, no. 3 (2012): 575-582.

Robert C. Freeman, Kathleen P. Bell, Aram J. K. Calhoun, and Cynthia S. Loftin, "Incorporating Economic Models into Seasonal Pool Conservation Plans," *Wetlands* 32 (2012): 50-250.

Bridie McGreavy, Thomas Webler, and Aram J.K. Calhoun, "Local Decision Maker Attitudes to Vernal Pool Conservation in Maine," *Journal of Environmental Management* 95 (2012): 1-8.

Cynthia S. Loftin, Aram J.K. Calhoun, Sarah J. Nelson, Adria A. Elksus, and Kevin Simon, "Does Mercury Bioaccumulate in Wood Frog Larvae Developing in Seasonal Woodland Pools?" *Northeast Naturalist* 19, no. 4 (2012): 579-600.

Viorel D. Popescu, David A. Patrick, Malcolm L. Hunter Jr., and Aram JK Calhoun, "The Role of Forest Harvesting and Subsequent Vegetative Regrowth in Determining Patterns of Amphibian Habitat Use," *Forest Ecology and Management* 270 (2012): 163-174

Jessica Jansujwicz, Aram J.K. Calhoun, Jessica Leahy, and Robert Lillieholm, "Using Mixed Methods to Develop a Frame-Based Private Landowner Typology," *Society & Natural Resources: An International Journal* 26, no. 8 (2012): 945-961.

David D. Hart and Aram J.K. Calhoun, "Rethinking the Role of Ecological Research in the Sustainable Management of Freshwater Ecosystems," *Freshwater Biology* 55 (2010): 258-269.

Aram J.K. Calhoun, Nicholas Miller, and Michael W. Klemens, "Conservation Strategies for Pool-Breeding Amphibians in Human-Dominated Landscapes," *Wetlands Ecology and Management* 13 (2005): 291-304.

Reports, Books, and Chapters

Aram JK. Calhoun, Meghan K. Gahl, and Robert F. Baldwin. "Northern Seasonal Woodland Pools," in *Wetland Habitats of North America*, eds. Darold P. Batzer and Andrew H. Baldwin (University of California Press, 2012), 135-148.

Jessica Jansujwicz and Aram Calhoun. "Protecting Natural Resources on Private Lands: The Role of Collaboration in Land-Use Planning," in *Landscape-scale Conservation Planning*, eds. S. Trombulak and R. F. Baldwin (New York: Springer-Verlag, 2010), 205-233.

Aram J.K. Calhoun and P. Reilly. "Conserving Vernal Pool Habitat Through Community Based Conservation," in *Science and Conservation of Vernal Pools in Northeastern North America*, eds. Aram J.K. Calhoun and Phillip G. deMaynadier (CRC Press, 2008).

Senator George J. Mitchell
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Solutions Initiative

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