

ARAM J.K. CALHOUN

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(A) PROFESSIONAL PREPARATION

Brown University	A.B. (American Civilization)	1981
Rhode Island College	M.A. (Education)	1985
University of Rhode Island	M.S. (Wetland Ecology)	1989
University of Maine	Ph.D. (Plant Biology and Pathology)	1996

(B) APPOINTMENTS

2011-present	Professor of Wetland Ecology, Department Wildlife, Fisheries, and Conservation Biology, University of Maine
2011-2015	Director, Ecology and Environmental Sciences Program, University of Maine
2004-2011	Associate Professor Wetland Ecology, University of Maine; Wetland scientist MAS
1998-2004	Assistant Professor Wetland Ecology, University of Maine; Wetland scientist MAS
1996-1997	Assistant Research Professor, University of Maine; Wetland scientist MAS*

*Maine Audubon Society

(C) PUBLICATIONS

Peer-reviewed articles: (* graduate students)

Jansujwicz, J., Calhoun, A.J.K., Hutchins-Bieluch, K., McGreavy, B., Silka, L. & Sponarski, C.
Localism “re-imagined: Building a robust localist paradigm for overcoming emerging conservation challenges. Resubmitted. *Environmental Management*

*Eakin, C., A.J.K. Calhoun, and M. Hunter, Jr. 2019. Indicators of wood frog condition in a suburbanizing landscape. *Ecosphere* 10. 10.1002/ecs2.2789.

*Eakin, C.J., Hunter, J.M., & Calhoun, A.J. 2019. The influence of land cover and within-pool characteristics on larval, froglet, and adult wood frogs along a rural to suburban gradient. *Urban Ecosystems* 22:493-505.

*Eakin, C., A.J.K. Calhoun, and M. Hunter, Jr. 2019. Effects of suburbanizing landscapes on vernal pool-breeding amphibian reproductive effort. *Herpetological Conservation and Biology* 14:515–532.

*Levesque V., AJK Calhoun, and E. Hertz. 2019 Vernal pool conservation: Innovative approaches to using and enhancing existing policy tools. *Case Studies in the Environment*. Article ID: CSE-2018-001636

- *Levesque, V., AJK Calhoun, and KP Bell. 2019. Actions speak louder than words: Designing transdisciplinary approaches to enact solutions. *Journal of Environmental Studies and Sciences* 9: 1029-1041.
- *Eakin, C.M. Hunter, Jr., and A.J.K. Calhoun. 2018. Bird and mammal use of vernal pools along an urban development gradient. *Urban Ecosystems* 21: 1029-1041. <https://doi.org/10.1007/s11252-018-0782-6>
- *Kifner, L.H., Calhoun, A.J.K., S.A Norton, K.E. Hoffmann, and A. Amirbahman. 2018. Methane and carbon dioxide dynamics with four vernal pools in Maine, USA. *Biogeochemistry* 139: 275. <https://doi.org/10.1007/s10533-018-0467-5>
- *Hoffmann, K., M. Hunter, Jr., A.J.K. Calhoun, and J. Bogart 2018. Post-breeding migration and habitat of unisexual salamanders in Maine, USA. *Journal of Herpetology* 52:273-281
- Jansujwicz, J. S. and A.J.K. Calhoun. 2017. Community-based Strategies for Strengthening Science and Influencing Policy: Vernal Pool Initiatives in Maine. *Maine Policy Review* 26: 33-42
- Creed, I.F. 2017. IF. Creed; CR. Lane; J N. Serran; LC. Alexander ;NB. Basu, AJ.K. Calhoun;J R. Christensen, M J. Cohen, C Craft, E D’Amico, E DeKeyser, L Fowler; H E. Golden, J W. Jawitz, P Kalla; L. K Kirkman, M Lang, S G. Leibowitz, DB. Lewis, J Marton, D L. McLaughlin, H Raanan-Kiperwas, M C. Rains, K C. Rains and L. Smith . Enhancing protections for vulnerable waters. *Nature Geoscience* 10:809–815.
- *Feuka, A., *K Hoffman, ML Hunter, AJK Calhoun. 2017. Effects of light pollution on habitat selection in post-metamorphic wood frogs (*Rana Sylvatica*) and unisexual blue-spotted salamanders (*Ambystoma laterale x jeffersonianum*). *Herpetological Conservation and Biology* 12(2):470–476.
- *Groff LA, AJK Calhoun, CS Loftin. 2017. Amphibian terrestrial habitat selection and movement patterns vary with annual life history period. *Canadian Journal of Zoology*. Published on the web 22 March 2017, 10.1139/cjz-2016-0148
- Calhoun, AJK, D. Mushet, LC Alexander, E.S.Dekeyser,L. Fowler,C.R.Lane, M.W.Lang, MC Rains,SC Richter,and SC Walls. 2017. The significant surface-water connectivity of "Geographically Isolated" Wetlands. DOI 10.1007/s13157-017-0887-3.
- *Groff L., C.S. Loftin, and A.J.K. Calhoun. 2017. Predictors of Breeding Site Occupancy by Pool-Breeding Amphibians in Maine’s Wetland-limited, Montane Landscapes. *Journal of wildlife management*. 81: 269–278. doi:10.1002/jwmg.21184.
- Bauer, DM, KP Bell, EJ Nelson, and AJK Calhoun. 2017. Managing small natural features: a synthesis of emergent economic issues and opportunities. *Biological Conservation* 211:80-87.
- Hunter, ML Jr., V Acuña, DM Bauer, KP Bell, AJK Calhoun, MR Felipe-Lucia, JA Fitzsimons, E González, M Kinnison, D Lindenmayer, C Lundquist, R Medellin, EJ Nelson, and P Poschlod. 2017. Conserving small natural features with large ecological roles: a synthetic overview. *Biological Conservation* 211:88-95.
- Calhoun AJK, Mushet DM, Bell KP, Boix D, Fzsimons JA, Isselin-Nondedeu F. 2017. Temporary wetlands: challenges and solutions for protecting a "disappearing" ecosystem. *Biological Conservation* 211:3-11.

- *Villaseñor, N.R., Driscoll, D.A., Gibbons, P., Calhoun, A.J.K., & Lindenmayer, D.B. 2017. The relative importance of aquatic and terrestrial variables for frogs in an urbanizing landscape: Key insights for sustainable urban development. *Landscape and Urban Planning* 157:26-37.
- Cohen, M.J., I.F. Creed, L. Alexander, N.B. Basu, A.J.K. Calhoun, et al. 2016. Do geographically isolated wetlands influence landscape functions? *Proceedings of the National Academy of Sciences* 113:1978-1986.
- *Hoffmann, K., A. Calhoun, and M. Hunter. 2016. A Deep-Water Funnel Trap for Salamanders. *Herpetological Review* 47:31-32.
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- Dibello F.J., A.J.K. Calhoun, D.E. Morgan, and A.F. Shearin. 2016. Efficiency and detection accuracy using print and digital stereo aerial photography for remotely mapping vernal pools in New England Landscapes. *Wetlands* 36: 505-514.
- *Levesque, V., A.J.K. Calhoun, and K.P. Bell. 2016. Turning contention into collaboration: Engaging power, trust, and learning in collaborative networks. *Society and Natural Resources* 1-16.
- *Levesque, V.R., K.P. Bell, and A.J.K. Calhoun. 2016. Planning for sustainability in small municipalities: The influence of interest groups, growth patterns, and institutional characteristics. *Journal of Planning Education and Research* p.0739456X16655601.
- *Groff, L.A., A.J.K. Calhoun, and C. Loftin. 2016. Hibernial ecology and habitat selection of wood frogs (*Lithobates sylvaticus*) in a northern New England montane landscape. *Journal of herpetology*. <http://dx.doi.org/10.1670/15-131R1>
- Hunter, M.L., P. Barton, and A.J.K. Calhoun et al. 2016. Two roles for ecological surrogacy: Indicator surrogates and management surrogates. *Ecological Indicators* 63: 121-125.
- Lindenmayer, D., J. Pierson, P. Barton, M. Beger, C. Branquinho, A.J.K. Calhoun, T. Caro, J. Gross, J. Heino, M. Hunter, P. Lane, C. Longo, K. Martin, W. H. McDowell, C. Mellin, H. Salo, A. Tulloch, and M. Westgate. 2015. A new framework for selecting environmental surrogates. *Science of the total environment*. 538:1029-1038.
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- *Groff, L, A. Pitt, R. Baldwin, A. Calhoun, and C. Loftin. 2015 (in press). Evaluation of a waistband for attaching external radio transmitters to anurans. *Wildlife Society Bulletin* 39:610-615.
- *Groff, L.A., A.J.K. Calhoun and C.S. Loftin. 2015. *Lithobates sylvaticus* (wood frog) habitat use. *Herpetological Review* 46:234.
- *Ryan, K., J. Zydlewski, A. Calhoun, and B. Timm. 2015. Monitoring Eastern Spadefoot (*Scaphiopus holbrookii*) response to weather using a passive integrated transponder (PIT) system. *Journal of Herpetology* 49:257-263.
- *Ryan K. and A.J.K. Calhoun. 2014. Postbreeding habitat use of the rare, pure-diploid blue-spotted salamander (*Ambystoma laterale*). *Journal of Herpetology* 48:556-566.

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- *Jansujwicz, J.S., A.J.K. Calhoun, J.E. Leahy, and R.J. Lilieholm. 2013. Using mixed methods to develop a frame-based private landowner typology. *Society and Natural Resources* 0:1-17.
- *Jansujwicz J.S., A.J.K. Calhoun, and R. Lilieholm. 2013. The Maine Vernal Pool Mapping and Assessment Program: Engaging municipal officials and private landowners in community-based citizen science. *Environmental Management* 52:1369–1385.
- *Shearin A., A.J.K. Calhoun, and C. Loftin. 2012. Evaluation of listener-based amphibian surveys with automated recording devices. *Wetlands* 32:737–751
- *Popescu D., M.L. Hunter, *D. Patrick, and A.J.K. Calhoun. 2012. Predicting the response of amphibian communities to disturbance across multiple temporal and spatial scales. *Forest Ecology and Management* 270:163–174.
- *Freeman, R.C., K.P. Bell, A.J.K. Calhoun, and C.S. Loftin. 2012. Incorporating economic models into vernal pool conservation planning: using local land use regulations to enhance state regulations. *Wetlands* 32:50-320.
- Loftin, C.S., A.J.K. Calhoun, S.J. Nelson, A. Elksus, and K. Simon. 2012. Does mercury bioaccumulate in wood frog larvae developing in seasonal woodland pools? *Northeast Naturalist* 19:579–600.
- *McGreavy, B., T. Webler, and A.J.K. Calhoun. 2012. Local decision maker attitudes to vernal pool conservation in Maine. *Journal of Environmental Management* 95:1-8.
- *Greenspan, S., A.J.K. Calhoun, J.E. Longcore, and M.G. Levy. 2012. Transmissions of *Batrachochytrium Dendrobatidis* to wood frogs (*Lithobates sylvaticus*) via a Bullfrog (*L. catesbeianus*) vector. *Journal of Wildlife Diseases* 48(3)575–582.
- *Greenspan S.E., J.E. Longcore, and A.J.K. Calhoun. 2012. Host invasion by *Batrachochytrium dendrobatidis*: Fine structure of the amphibian chytrid in model anurans. *Diseases of Aquatic Organisms* 100:201–210.
- *Morley, T.R., A.S. Reeve, and A.J.K. Calhoun. 2011. The role of headwater wetlands in altering stream flow chemistry in a Maine, USA, catchment. *Journal of American Water Resources Association* 47:337-349.
- *Gahl, M.K. and A.J.K. Calhoun. 2010. The role of multiple stressors in ranavirus-caused amphibian mortalities in Acadia National Park wetlands. *Canadian Journal of Zoology* 88:108-121.
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- *Morley, T.R. and A.J.K. Calhoun. 2009. Vegetation characteristics of forested hillside seeps in eastern Maine, USA. *The Journal of the Torrey Botanical Society* 136:520-531.
- Semlitsch, R.D., *B.D. Todd, *S.M. Blomquist, A.J.K. Calhoun, J.W. Gibbons, J.P. Gibbs, *G.J. Graeter, *E.B. Harper, *D.J. Hocking, M.L. Hunter, Jr., *D.A. Patrick, *T.A.G. Rittenhouse, and B.B. Rothermel. 2009. Effects of Timber Harvest on Amphibian Populations: Understanding Mechanisms from Forest Experiments. *BioScience* 59:853–862.
- *Gahl, M.K., A.J.K. Calhoun, and R. Graves. 2009. Facultative use of seasonal pools by American bullfrogs (*Rana catesbeiana*). *Wetlands* 29:697-703.
- *Gahl, M.K. and A.J.K. Calhoun. 2008. Landscape setting and risk of *Ranavirus* mortality events. *Biological Conservation* 141:2679-2689.
- *Bailey, J.E. and A.J.K. Calhoun. 2008. Comparison of three physical management techniques for controlling variable-leaf milfoil in Maine Lakes. *Journal of Aquatic Plant Management* 46:163-167.
- *Patrick, D.A., *E. Harper, M.L. Hunter, A.J.K. Calhoun. 2008. Terrestrial habitat selection and strong density-dependent mortality in recently metamorphosed amphibians. *Ecology* 89:2563-2574.
- *Patrick, D.A., A.J.K. Calhoun, and M.L. Hunter. 2008. The importance of understanding spatial population structure when evaluating the effects of silviculture on spotted salamanders (*Ambystoma maculatum*). *Biological Conservation* 141:807-814.
- Lindenmayer, D. et al. 2008. A checklist for ecological management of landscapes for conservation. *Ecology Letters* 10:1-14.
- *Baldwin, R.F., P.G. deMaynadier, and A.J.K. Calhoun. 2007. *Rana sylvatica* predation. *Herpetological Review* 38:194-195.
- *Cunningham, J., A.J.K. Calhoun, and W.E. Glanz. 2007. Pond-breeding amphibian species richness and breeding habitat selection in a beaver-modified landscape. *Journal of Wildlife Management* 71:2517-2526.
- *Patrick, D., A.J.K. Calhoun, M.L. Hunter, Jr. 2007. The orientation of juvenile wood frogs, *Rana sylvatica*, leaving experimental ponds. *Journal of Herpetology* 41:158-163.
- *Oscarson, D. and A.J.K. Calhoun. 2007. Developing vernal pool conservation plans at the local level using citizen scientists. *Wetlands* 27:80-95.
- *Vasconcelos, D. and A.J.K. Calhoun. 2006. Monitoring created seasonal pools for functional success: A six-year case study of amphibian responses, Sears Island, Maine, USA. *Wetlands* 26:992-1003.
- *Cunningham, J., A.J.K. Calhoun, W.E. Glanz. 2006. Patterns of beaver colonization and wetland change in Acadia National Park: Implications for pond-breeding amphibian species distribution. *Northeastern Naturalist* 13:583-596.
- *Baldwin, R., A.J.K. Calhoun, and P.G. deMaynadier. 2006. Conservation planning for amphibian species with complex habitat requirements: A case study using movements and habitat selection of the wood frog (*Rana sylvatica*). *Journal of Herpetology* 40:443-454.
- *Patrick, D., M.L. Hunter, and A.J.K. Calhoun. 2006. Effects of experimental forestry treatments on a Maine Amphibian Community. *Forest Ecology and Management* 234:323-332.
- *Baldwin, R.F., A.J.K. Calhoun, and P.G. deMaynadier. 2006. The significance of hydroperiod and stand maturity for pool-breeding amphibians in forested landscapes. *Canadian Journal of Zoology* 84:1604–1615.

- Calhoun, A.J.K., N. Miller, and M.W. Klemens. 2005. Conservation strategies for pool-breeding amphibians in human-dominated landscapes. *Wetlands Ecology and Management* 13:291-304.
- Hunter, M.L. Jr., A. Calhoun, and D.S. Wilcove. 2004. Goliath Heron fishing with an artificial bait? *Waterbirds* 27:312-313.
- *Vasconcelos, D. and A.J.K. Calhoun. 2004. Movement patterns of adult and juvenile wood frogs (*Rana sylvatica*) and spotted salamanders (*Ambystoma maculatum*) in three restored vernal pools. *Journal of Herpetology* 38:551-561.
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- Almquist, H.A. and A.J.K. Calhoun. 2003. A coastal outlier patterned fen: Lily Fen, Swans Island Maine. *Northeastern Naturalist* 10:119-130.
- *Baldwin, R. and A.J.K. Calhoun. 2002. Differential predation on ambystomatid egg masses by *Rana sylvatica*. *Herpetological Reviews* 33:44-45.
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- Calhoun, A.J.K. 1998. Book Review. Northern forested wetlands: Ecology and management. *Forest Science* 44:329-330.
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BOOKS:

1. Hunter, M.L., D.B. Lindenmayer, and A.J.K. Calhoun. 2015 (2nd edition). *Saving the Earth as a career: Advice on becoming a conservation professional*. Blackwell Publishing, VA.
2. Calhoun, A.J.K. and P.G. deMaynadier (eds.). 2008. *Science and conservation of vernal pools in northeastern North America*. CRC Press, Boca Rotan, FL.
3. Hunter, M.L., D.B. Lindenmayer, and A.J.K. Calhoun. 2007. *Saving the Earth as a career: Advice on becoming a conservation professional*. Blackwell Publishing, VA.
4. Hunter, M.L. Jr., A.J.K. Calhoun, M. McCollough (eds.). 1999. *Maine amphibians and reptiles*. University of Maine Press, Orono, ME.

BOOK CHAPTERS (PEER-REVIEWED):

- Boix, D., Calhoun, A.J.K., Mushet, D. M., Bell, K.P., Fitzsimons, J.A., Isselin-Nondedeu, F. (2020). Conservation of Temporary Wetlands. In: *Encyclopedia of the World's Biomes* (eds Michael I.

Goldstein and Dominik A. DellaSala), pp. 279-294. Elsevier, doi:
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- Calhoun, AJK, V. Levesque, and E. Hertz. *In press*. The Maine Vernal Pool Special Area Management Plan: A tool to conserve vernal pool ecosystems and support municipal growth. Pages xx in *Strategies for Conservation Success in Herpetology*, S.C. Walls and K.M. O'Donnell (editors), Society for the Study of Amphibians and Reptiles, Herpetological Conservation Series, Vol. 4.
- Colburn, EA and AJK Calhoun. 2017. Vernal pools of northeastern North America Pages 1-14 *In*: Finlayson, C.M., NC Davidson, GR Milton, and C. Prentice (eds). *The Wetland Book: Distribution, Description and Conservation*. Springer.
- Greig, H. and AJK Calhoun. "Searching for the holy grail of wetland integrity: are surrogates still relevant in conservation planning?." 2015. *In: Indicators and Surrogates of Biodiversity and Environmental Change* 1, no. 2 101. Lindenmayer, D. P. Barton, and J. Pierson (eds.)CSIRO publishing, 101
- Calhoun, A.J.K., M.K. Gahl, and R.F. Baldwin. 2012. Northeastern seasonal woodland pools. Pages 135-148 *in* D. Batzer and A. Baldwin, eds. *Wetland habitats of North America: Ecology and conservation concerns*. University of California Press, Berkeley, CA.
- Jansujwicz, J. and A.J.K. Calhoun. 2010. Protecting natural resources on private lands: the role of collaboration in land-use planning. Pages 205-233 *in* Trombulak, S. and R.F. Baldwin (eds.). *Protecting natural resources on private lands: The role of collaboration in land-use planning*. Springer-Verlag, New York, NY.
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- Windmiller, B. and A.J.K. Calhoun. 2008. Conserving vernal pool wildlife in urbanizing landscapes. Pages 235-247 *in* Calhoun, A.J.K. and P.G. deMaynadier (eds). *Science and conservation of vernal pools in northeastern North America*. CRC Press.
- Calhoun, A.J.K. 2007. Principles for conserving wetlands in the context of landscape management. Pages 429-444 *in* Hobbs, R. and D.B. Lindemayer (eds.). *Managing and designing landscapes for conservation: Moving from perspectives to principles*.
- Calhoun, A.J.K. and M.L. Hunter. 2003. Managing ecosystems for amphibian populations. Pages 228-241 *in* R.D. Semlitsch (ed). *Amphibian Conservation*. Smithsonian Institution Press, Washington, DC.
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TECHNICAL REPORTS:

1. Reed SE, AJK Calhoun, C Farr, D Fischer, MJ Glennon, M Hostetler, HE Kretser, S Lerman, C Nilon, and L. Pejchar. 2016. Conservation design and stewardship guidelines for local land-use regulations. U.S. Forest Service.

2. Morgan, D.E. and A.J.K. Calhoun. 2013. Maine municipal guide to mapping and conserving vernal pools. Sustainability Solutions Initiative, Orono, Maine.
3. Calhoun, A.J.K. and P. deMaynadier. 2004. Forestry habitat management guidelines for vernal pool wildlife in Maine. Wildlife Conservation Society Technical Paper #6, Rye, New York.
4. Calhoun, A.J.K. 2003. Maine Citizen's guide to locating and documenting vernal pools (3rd edition). Maine Audubon Society, Falmouth, Maine.
5. Calhoun, A.J.K. and M.W. Klemens. 2002. Best development practices for pool-breeding amphibians in commercial and residential developments. Wildlife Conservation Society Technical Paper #5, Rye, New York.
6. Calhoun, A.J.K. 2000. Assessment of vernal pool resources. Maine Department of Inland Fisheries and Wildlife, Technical Report for Significant Wildlife Habitat designation.
7. Sparling, D.W., A.J.K. Calhoun, D. Hoskins, M. Micacchion, and K. Richter. 2001. Using amphibians in Bioassessments. New England Bioassessment Working Group, US EPA report.

POPULAR LITERATURE

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- Calhoun, A.J.K., and D.E. Morgan. 2009. Conservation of Vernal Pools: Lessons from State and Local Action. Case study, discussion questions, and teaching notes. American Museum of Natural History, Network of Conservation Educators and Practitioners. Available at <http://ncep.amnh.org>.
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