

SHANNON L. LADEAU

The Cary Institute of Ecosystem Studies
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Education:

- 2005 Ph.D., Duke University, Biological Sciences, Durham, North Carolina
Certificate in Ecology (Minor focus in Statistics)
- 1997 B.A. Mount Holyoke College, Biology Department, South Hadley, Massachusetts

Professional Positions:

- 2014 - Associate Scientist, Cary Institute of Ecosystem Studies, Millbrook, New York
- 2008-14 Assistant Scientist, Cary Institute of Ecosystem Studies, Millbrook, New York
- 2009- Adjunct Graduate Faculty in Ecology, Rutgers University, New Brunswick, New Jersey
- 2008- 9 Affiliate Scientist, Program in Spatial Statistics and Environmental Statistics, The Ohio State University, Columbus, OH

Postdoctoral Fellowships

- 2006-8 NSF Program in Biological Informatics Fellowship, The Ohio State University, Department of Statistics, Columbus, Ohio
- 2005-8 Smithsonian Fellowship, Smithsonian Migratory Bird Center, Washington, DC

Selected Professional Honors:

Associate Editor-in-Chief for Disease Ecology, Ecosphere (<https://esajournals.onlinelibrary.wiley.com/hub/journal/21508925/resources/call-for-papers-disease-ecology>)

Research Interests and Activities:

My work investigates how environmental and socio-economic conditions regulate the population and community ecology of disease vectors and influence human and other animal exposure to infectious pathogens.

Selected Publications:

- Goodman, H., Egizi, A., Fonseca, D., Leishnam, PT., & S.L. LaDeau. 2018. Primary blood-hosts of mosquitoes are influenced by social and ecological conditions in a complex urban landscape. **Parasites & Vectors**. 11(218). <https://doi.org/10.1186/s13071-018-2779-7>
- Ferguson, PFB, Breyta, R, Brito, I, Kurath, G, and S.L. LaDeau. 2018. An epidemiological model of virus transmission in salmonid fish of the Columbia River Basin. **Ecological Modelling**. 377. 1-15.

- Jordan, RC, Sorensen, AE, and S [LaDeau](#). Citizen Science as a Tool for Mosquito Control. 2017. **Journal of American Mosquito Control Association**. 33(3):241-245. DOI 10.2987/17-6644R.1
- Breyta, R., Brito, I., Ferguson, P., Kurath, G., Naish, K., Purcell, M.K., Wargo, A. and S.L. [LaDeau](#). 2017. Transmission routes maintaining a viral pathogen of steelhead trout within a complex multi-host assemblage. **Ecology and Evolution**. DOI: 10.1002/ece3.3276
- Little, E., Biehler, D., Jordan, R., Leisnham, P., Wilson, S., and S.L. [LaDeau*](#). Socio-ecological Mechanisms Supporting High Densities of *Ae. albopictus* in Baltimore, MD. 2017. **Journal of Medical Entomology**. 54 (1) 1183-1192. <https://doi.org/10.1093/jme/tjx103>
- Manore, C., Ostfeld, O., Agosto, F., Gaff, H. and S.L. [LaDeau*](#). Defining the risk of Zika and chikungunya virus transmission in human population centers of the eastern United States. 2017. **PLOS Neglected Tropical Disease** 11(1): e0005255. <http://dx.doi.org/10.1371/journal.pntd.0005255>
- [LaDeau, S.L.](#), Han, B.A., Rosi-Marshall, E., and K. Weathers. 2016. The Next Decade of Big Data in Ecosystem Science. **Ecosystems**. 20(2), 274-283 doi:10.1007/s10021-016-0075-y
- Pickett, S.T.A., Cadenasso, M.L., Rosi-Marshall, E.J., Belt, K., Groffman, P.M., Grove, J.M., Irwin, E.G., Kaushal, S.S., [LaDeau](#), S.L., Nilon, C.H., Swan, C.M., and P.S. Warren. 2016. Dynamic Heterogeneity: A Framework to Promote Ecological Integration and Hypothesis Generation in Urban Systems. **Urban Ecosystems**. doi: 10.1007/s11252-016-0574-9
- Bodner, D., [LaDeau](#), S.L., Biehler, D., and P. Leisnham. 2016. Effectiveness of print education at reducing urban mosquito infestation through improved resident-based management. **PLOS ONE** 11(5): e0155011. doi.org/10.1371/journal.pone.0155011 MS student, coadvised
- Lovett, G. M., Weiss, M., Liebhold, A. M., Holmes, T. P., Leung, B., Lambert, K. F., Orwig, D. A., Campbell, F. T., Rosenthal, J., McCullough, D. G., Wildova, R., Ayres, M. P., Canham, C. D., Foster, D. R., [LaDeau](#), S. L. and Weldy, T. (2016), Nonnative forest insects and pathogens in the United States: Impacts and policy options. **Ecological Applications**. doi:10.1890/15-1176
- [LaDeau](#), S.L., Allan, B.F., Leisnham, P.T., & M.Z. Levy. (2015) The ecological foundations of transmission potential and vector-borne disease in urban landscapes. **Functional Ecology**. 29(7): 889-901.
- Hersh, M. H., [LaDeau](#), S.L., Previtali, M.A., & R.S. Ostfeld. 2014. When is a parasite not a parasite? Effects of larval tick burdens on white-footed mouse survival. **Ecology**. 95(5): 1360-1369.
- Leisnham, P., [LaDeau](#), S., & S. Juliano. 2014. Spatial and temporal habitat segregation of mosquitoes in urban Florida. **PLoS ONE** 9(3): e91655.
- Angert, A.L., [LaDeau](#), S. L. & R.S. Ostfeld. 2013. Climate change and species interactions: ways forward. **Annals of the New York Academy of Sciences**, 1237: 1-7
- [LaDeau](#), S.L., Glass, G., Hobbs, N.T., Latimer, A.L. & R.S Ostfeld. 2011. Data-model fusion to better understand emerging pathogens and improve infectious disease forecasting. **Ecological Applications** 21(5): 1443-1460.
- [LaDeau](#), S.L., Calder, C.A., Doran, P.J., & P.P. Marra. 2011. West Nile virus impacts in American crow populations are associated with human land use and climate. **Ecological Research** 26:909-916
- [LaDeau](#) S.L. 2010. Advances in modeling highlight a tension between analytical accuracy and accessibility. **Ecology** 91 (12): 3488-3492
- [LaDeau](#), S.L, A. M. Kilpatrick, and P. P. Marra, 2007. "West Nile virus emergence and large-scale declines of North American bird populations", **Nature**, vol. 447, no. 7145, p. 710 - 713,
- Clark, J.S., Wolosin, M., Dietze, M., Ibanez, I., [LaDeau](#), S., Welsh, M., and B. Kloeppel. 2007. Tree growth inference and prediction from diameter censuses and ring widths. **Ecological Applications** 17 (7): 1942-1953.
- Clark, J.S., Dietze, M., Chakraborty, S., Agarwal, P., Ibanez, I., [LaDeau](#), S., and M. Wolosin. 2007. Resolving the biodiversity paradox: The dimensionality of coexistence. **Ecology Letters** 10 (8): 647-662.