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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
- 1995 School for Field Studies, Sustainable Development Studies, Atenas, Costa Rica

Professional Positions

- 2009- Adjunct Graduate Faculty in Ecology, Rutgers University, New Brunswick, New Jersey
- 2008- Assistant Scientist, Cary Institute of Ecosystem Studies, Millbrook, New York
- 2008- Affiliate Scientist, Program in Spatial Statistics and Environmental Statistics, The Ohio State University, Columbus, OH
- 2009-12 Research Associate, Smithsonian Migratory Bird Center, Washington, DC

Postdoctoral Fellowships

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

Professional Honors

- Secretary's Research Prize (with Peter Marra), Smithsonian Institution, 2008
- National Science Foundation Fellowship in Biological Informatics, 2006
- American Association of University Women, Dissertation Fellowship, 2004
- Duke University, Biology Grant-in-Aid of Research, 2003, 2001
- Sigma Xi Grant-in-Aid, 2002
- National Science Foundation Pre-Doctoral Research Fellowship, 1999
- Phi Beta Kappa Honors Society, 1997
- Bernice Maclean Award, (Mount Holyoke College), 1997
- Harry S Truman Scholar, VT State Finalist, 1996
- Abby Howe Turner Award, (Mount Holyoke College) 1994, 1996

Publications

In review/press

- Wilson, S., LaDeau, S.L., Tottrup, A., Marra, P.P. Range-wide effects of breeding and non-breeding season climate on the abundance of a Neotropical migrant songbird. *Submitted Ecology*, 8/2010.

Luo, Y., Ogle, K., Tucker, C., Fei, S., Gao, C., LaDeau, S., Clark, J., Schimel, D. Ecological Forecasting and Data Assimilation in a Data-Rich Era. **Ecological Applications**. *Accepted 8/2010*.

LaDeau, S.L., Glass, G., Hobbs, N.T., Latimer, A.L., and R. Ostfeld. Data-model fusion to better understand emerging pathogens and improve infectious disease forecasting. **Ecological Applications**. *Accepted 4/2010*.

LaDeau, S.L., Calder, C.A., Doran, P.J., & P.P. Marra. 2010. West Nile virus impacts in American crow populations are associated with human land use and climate. **Ecological Research**. *Online early DOI: 10.1007/s11284-010-0725-z*.

Published

LaDeau S.L. 2010. Advances in modeling highlight a tension between analytical accuracy and accessibility. **Ecology** 91 (12): 3488-3492

Clark, J.S., Bell, D., Chu, C., Courbaud, B., Dietze, M., Hersh, M., HilleRisLambers, J., Ibanez, I., LaDeau, S., McMahon, S., Metcalf, J., Mohan, J., Moran, E., Pangle, L., Pearson, S., Salk, C., Shen, Z., Valle, D., and P. Wyckoff. 2010. High dimensional coexistence based on individual variation: A synthesis of evidence. **Ecological Monographs**. 80 (4): 569-608

Pace, M., Hampton, S., Limburg, K., Bennett, E., Cook, D., Davis, A., Grove, M., Kaneshiro, K., LaDeau, S., et al. 2010. Individual Ecologists: Opportunities and Rewards for Engaging with Environmental Issues. **Ecological Applications** 8 (6): 292-298.

McCarthy, H.R., Oren R., Johnsen, K.H., Finzi, A.C., Pritchard, S.G., Cook, C.W., Gallet-Budynek, A., LaDeau, S.L., and R.B. Jackson. 2010. Reassessment of plant carbon dynamics at the Duke Free Air CO₂ Enrichment site: Interactions of atmospheric [CO₂] with nitrogen and water availability and stand development. **New Phytologist** 185 (2): 514-528.

Way D., LaDeau SL, McCarthy HR, Clark JS, Oren R, Finzi AC, and RB Jackson. 2010. Greater seed production in elevated CO₂ is not accompanied by reduced seed quality in *Pinus taeda*. **Global Change Biology**. 16(3): 1046-1056.

Clark, J.S., D. Bell, M. Dietze, M. Hersh, I. Ibanez, S. LaDeau, S. McMahon, J. Metcalf, E. Moran, L. Pangle, and M. Wolosin. 2010. Models for demography of plant populations, in T. O'Hagan and M. West (eds). **The Oxford Handbook of Applied Bayesian Analysis**, Oxford University Press.

LaDeau, S.L., P.P. Marra, Kilpatrick, A.M, and C.A. Calder. 2008. West Nile virus revisited: Consequences for North American ecology. **BioScience**. 58(10): 937-946.

LaDeau, S.L., Kilpatrick, A.M, and P.P. Marra. 2007. Continental declines in bird populations and the emergence of West Nile virus. **Nature** 447(7145): 710-714.

Kilpatrick, A.M., LaDeau, and P.P. Marra. 2007. West Nile virus in the western hemisphere. **Auk** 124 (4): 1121-1136.

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.
- Ibanez, I. Clark, J.S., LaDeau, S. and J. HilleRisLambers. 2007. Exploiting temporal variability to understand tree recruitment response to climate change. **Ecological Monographs** 77(2): 167-177.
- LaDeau, S. L. and J. S. Clark. 2006. Annual pollen production in *Pinus taeda* grown under elevated CO₂. **Functional Ecology** T20 (3): 541-547.
- LaDeau, S. L. and J. S. Clark. 2006. Elevated CO₂ and tree fecundity: the role of tree size, inter-annual variability and population heterogeneity. **Global Change Biology** 12: 822-833.
- Ibáñez, I., J. S. Clark, M. C. Dietze, K. Feeley, M. Hersh, S. LaDeau, A. McBride, N. E. Welch, and M.S. Wolosin. 2006. Predicting biodiversity change: Outside the climate envelope, beyond the species-area curve. **Ecology**. 87 (8): 1896-1906.
- Clark, J.S. and S.L. LaDeau. 2006. Synthesizing ecological experiments and observational data with Hierarchical Bayes. In J.S. Clark and A. Gelfand (eds). **Hierarchical Modeling for the Environmental Sciences**. Oxford University Press, New York. pp 41-58.
- Williams C.G., LaDeau S.L., Oren R., and G.G. Katul. 2006. Modeling seed dispersal distances: implications for transgenic *Pinus taeda*. **Ecological Applications** 16 (1): 117-124.
- Clark, J.S, S LaDeau and I. Ibanez . 2004. Fecundity of Trees and the Colonization-Competition Hypothesis. **Ecological Monographs** 74 (3): 415-442.
- LaDeau, S. L. and J. S. Clark. 2001. Rising CO₂ levels and the fecundity of forest trees. **Science** 292(5514): 95-98.
- Clark, J.S., B. Beckage, J. HilleRisLambers, I. Ibanez, S. LaDeau, J. MacLachlan, J. Mohan, and M. Rocca. 2000. Dispersal and plant migration. Pages 81-93 in H. Mooney and J. Canadell (eds). **Encyclopedia of Global Environmental Change**, Vol 3, Wiley, Chichester, England.
- LaDeau, S and A. Ellison. 1999. Seed Bank Composition of a Northeastern U.S. Tussock Swamp. **Wetlands** 19: 255-261.