

Nina K. Lany

CV

Michigan State University
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Academic Appointments

2015–present **Postdoctoral Research Associate**, *Michigan State University*, East Lansing, MI, Department of Forestry. *Advisor: P.L. Zarnetske.*

Education

2014 **Ph.D. in Ecology and Evolutionary Biology**, *Dartmouth College*, Hanover, NH, *Advisor: M.P. Ayres.*

Dissertation: Effects of temperature on species interactions in northern hardwood forests

2009 **B.S. in Natural Science**, *Lyndon State College*, Lyndonville, VT.

1995 **B.A. in Comparative Literature**, *College of Wooster*, Wooster, OH.

Awards and Grants

2015–2018 **Arnold O. Beckman Postdoctoral Fellowship**, *Improving prediction of climate change effects on ecological communities*, PI, \$189,604.

2017–2019 **Michigan Department of Natural Resources: Michigan Invasive Species Grant Program**, *Projecting Hemlock Woolly Adelgid Distribution and Risk in Michigan*, Co-PI, \$314,453.

2017–2023 **National Science Foundation: Long-Term Ecological Research**, *ILTER: Long-Term Ecological Research at the Hubbard Brook*, Co-PI.

2015 **Murray F. Buell Award for Outstanding Student Paper**, *Ecological Society of America*.

2014–2015 **National Science Foundation: Doctoral Dissertation Improvement Grant**, *DISSERTATION RESEARCH: The effect of temperature on the timing and strength of species interactions in a northern hardwood forest*, Co-PI, \$20,937.

2010–2012 **National Science Foundation: Integrative Graduate Education and Research Traineeship (IGERT)**, *Polar Environmental Change*.

Publications

Manuscripts in review or revision

10. Voelker, N., P.L. Zarnetske, N. Wisnoski, J. Tonkin, C. Swan, S. Record, L. Marazzi, **N.K. Lany**, T. Lamy, A. Compagnoni, R. Andrade and E. Sokol. Novel insights to be gained from applying metacommunity theory to long-term biodiversity data. In review, *Bioscience*.

Refereed Publications

9. **Lany, N.K.**, P.L. Zarnetske, E.M. Schliep, R. Schaeffer, C.M. Orians, D.A. Orwig, and E.L. Priesser. 2018. Asymmetric biotic interactions and abiotic niche differences revealed by a joint species distribution model. *Ecology* 99: 1018-1023. <https://doi.org/10.1002/ecy.2190>
8. Welshofer, K.B., P.L. Zarnetske, **N.K. Lany**, Q.D. Read. 2018. Short-term responses to warming vary between native vs. exotic species and with latitude in an early successional plant community. *Oecologia* 187: 333-342. <https://doi.org/10.1007/s00442-018-4111-9>
- 7 Schliep, E.M., **N.K. Lany**, P.L. Zarnetske, R. Schaeffer, C.M. Orians, D.A. Orwig, and E.L. Priesser. 2017. Joint species distribution modeling for spatio-temporal occurrence and ordinal abundance data. *Global Ecology and Biogeography*. <https://doi.org/10.1111/geb.12666>
6. Welshofer, K.B., P.L. Zarnetske, **N.K. Lany**, L.A. Thompson. 2017. Open-top chambers for temperature manipulation in taller-stature plant communities. *Methods in Ecology and Evolution* 9(2): 254-259. <https://doi.org/10.1111/2041-210X.12863>
5. **Lany, N.K.**, P.L. Zarnetske, T.C. Gouhier. B. Menge. 2017. Incorporating context dependency of species interactions in species distribution models. *Journal of Integrative and Comparative Biology* 57(1):159-167. <https://doi.org/10.1093/icb/icx057>
4. Weed, A. S, J.S. Elkinton, **N.K. Lany**. 2016. Density-dependent recruitment and diapause in the spring-feeding generation of hemlock woolly adelgid (Hemiptera: Adelgidae) in western North America. *Environmental Entomology* 45(6), 1352-1359. <https://doi.org/10.1093/ee/nvw107>
3. **Lany, N.K.**, M.P. Ayres, E.E. Stange, T.S. Sillett, N.L. Rodenhouse, R.T. Holmes. 2016. Breeding timed to maximize reproductive success in a migratory songbird: the importance of phenological asynchrony. *Oikos* 125(5): 656-666. <https://doi.org/10.1111/oik.02412>
2. Townsend, A. K., T. S. Sillett, **N. K. Lany**, S. A. Kaiser, N. L. Rodenhouse, M. S. Webster, and R. T. Holmes. 2013. Warm Springs, Early Lay Dates, and Double Brooding in a North American Migratory Songbird, the Black-Throated Blue Warbler. *Plos One* 8 (4): e59467. <https://doi.org/10.1371/journal.pone.0059467>
1. Groffman, P. M., L. E. Rustad, P. H. Templer, J. L. Campbell, L. M. Christenson, **N. K. Lany**, A. M. Socci, M. A. Vadeboncoeur, P. G. Schaberg, G. F. Wilson, C. T. Driscoll, T. J. Fahey, M. C. Fisk, C. L. Goodale, M. B. Green, S. P. Hamburg, C. E. Johnson, M. J. Mitchell, J. L. Morse, L. H. Pardo, and N. L. Rodenhouse. 2012. Long-Term Integrated Studies Show Complex and Surprising Effects of Climate Change in the Northern Hardwood Forest. *Bioscience* 62:1056-1066. <https://doi.org/10.1525/bio.2012.62.12.7>

Non-Refereed Products

Lany, N.K., P.L. Zarnetske and D.G. McCullough. 2018. Predicted occurrence probability of eastern hemlocks in Michigan. (A 30 m resolution raster file uploaded to the Michigan GIS Open Data Portal to aid in hemlock woolly adelgid detection and eradication efforts.)

Teaching

- 2015–2018 **Guest teaching**, *Michigan State University*, East Lansing, MI.
Spatial Ecology, Introduction to Forestry, Forest Ecology, and Geography of Plants.
- 2013 **Instructor, graduate seminar**, *Dartmouth College*, Hanover, NH.
Bayesian Methods for Statistical Modeling and Inference in Ecology
- 2013 **Co-instructor, graduate seminar**, *Swedish University of Agricultural Sciences*, Uppsala, Sweden.
Practicum in Combining Theories, Models, and Data in Ecological Research
- 2013 **Facilitator, ethics training**, *Dartmouth College*, Hanover, NH.
Facilitated ethics seminars for incoming graduate students
- 2009–2014 **Teaching Assistant**, *Dartmouth College*, Hanover, NH.
Biostatistics, Physiological Ecology, Tropical Ecology, Introduction to Ecology, Marine Biology
- 2003–2009 **Adjunct Faculty**, *Community College of Vermont*, Saint Johnsbury and Newport, VT.
Mathematical Concepts, College Algebra, Global Issues in the Media, First Year Seminar

Invited Seminars and Symposia

- 2018 **LTER All-Scientists Meeting**, Asilomar, CA, Workshop panelist.
- 2017 **Kellogg Biological Station**, Hickory Corners, MI, Seminar.
- 2017 **Society for Integrative and Comparative Biology Annual Meeting**, New Orleans, LA, Symposium speaker.
- 2015 **Michigan State University, Department of Forestry**, East Lansing, MI, Seminar.
- 2014 **International Union of Forest Research Organizations World Congress (IUFRO)**, Salt Lake City, UT, Symposium speaker.
- 2013 **Swedish University of Agricultural Sciences**, Uppsala, Sweden, Seminar.
- 2012 **North American Ornithological Conference**, Vancouver, BC, Symposium speaker.
- 2011 **North American Forest Insect Working Conference**, Portland, OR, Symposium speaker.

Research Working Groups

- 2016–2018 **NSF LTER Working Group: Metacommunities**, *A synthesis to identify how meta-community dynamics mediate community responses to disturbance across the ecosystems represented in the LTER network*, National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, CA.
- 2017–2019 **NSF LTER Working Group: Synchrony**, *Synthesizing population and community synchrony to understand drivers of ecological stability across LTER sites*, National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, CA.

Professional Activities

- Grant review Panelist for the National Science Foundation
- Journal referee American Naturalist, Biological Conservation, Ecography, Ecological Applications, Ecology and Evolution, Ecosphere, Environmental Entomology, Global Change Biology, Journal of Ecology, Journal of Field Ornithology, Journal of Vegetation Science, Methods In Ecology and Evolution, Oecologia, Oikos, Polar Biology, Science
- Member Ecological Society of America

Computing Skills and Software

- OS UNIX, remote computing
- Statistics R, BUGS/JAGS (Gibbs sampling for Bayesian hierarchical models)
- Geospatial GDAL, R, QGIS
- Markup \LaTeX , RMarkdown
- Versioning git, GitHub

Last updated: January 7, 2019