Kathryn L. Amatangelo

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# EDUCATION

2002-2008: Ph.D. Biology, Stanford University, Stanford, CA

1997-2001: B.S. with Distinction Resource Ecology and Management, University of Michigan, Ann Arbor, MI

**PROFESSIONAL EXPERIENCE**

Associate Professor, September 2019-present

SUNY Brockport, Department of Environmental Science and Ecology

Assistant Professor, August 2013-2019

SUNY Brockport, Department of Environmental Science and Ecology

Postdoctoral Research Associate, 2010-2013

Brown University, Ecology and Evolutionary Biology

Postdoctoral Research Associate, 2008-2010

University of Wisconsin, Madison, Department of Botany

Research Associate, 2000-2002

Great Lakes Fishery Commission, Ann Arbor, Michigan

**EXTERNAL FUNDING**

2020-2025 US EPA: Continuation of the Great Lakes Coastal Wetland Monitoring Program: 2020-2025. Lead PI. $1,147,000.

2021-2022 Finger Lakes Partnership for Invasive Species Management: Early detection for spotted lantern fly in the FL-PRISM. $18,999.

2020-2021 Finger Lakes Partnership for Invasive Species Management: Evaluation of control methods for dewberry. $11,268.

2019-2024 NY DEC: Mile-a-minute discovery and control in Western New York. $85,577.

2018-2020 NY DEC: *Brachypodium* management initiative (Co-PI with PI A. Graham). $249,980

2018-2021 NY DEC: Braddock Bay post-restoration studies for adaptive management. (Co-PI with PI D. Wilcox). $299,753.

2017-2019 NY DEC Invasive Species Rapid Response and Control Grant: Slender false-brome control in Bergen Swamp (Co-PI with PI Andrea Graham). $81,764.

2017 The Waterman Fund: Investigating the environmental constraints on snowbed communities of Mt. Washington, New Hampshire (PI with co-PI C. Norment). $2,865.

2016-2018 USDA (Subcontract for Hobart and William Smith grant): Invasive Monitoring and Removal at Ganondagan State Historic Site. 2016. from USDA. $15,788.

2016NYS DEC (Subcontract for Hobart and William Smith grant): Survey for Hydrilla in inland water bodies of Monroe County. $7,078.

2015Finger Lakes Partnership for Invasive Species Management: Suburban landscapes as a source of exotic invasive plant species. $4,906.

2014 Finger Lakes Partnership for Invasive Species Management: Evaluating the extent of non-native invasive vine infestations in Monroe County. $4,123.

**PEER-REVIEWED PUBLICATIONS**

**\*** graduate student co-author; † undergraduate student co-author

Waller, D. M., Paulson, A. K., Richards, J. H., Alverson, W. S., Amatangelo, K. L., Bai, C., Johnson, S. E., Li, D., Sonnier, G., and Toczydlowski, R. H. 2022. Functional trait data for vascular plant species from northeastern North America. *Ecology* 103(1):e03527. [10.1002/ecy.3527](https://doi.org/10.1002/ecy.3527)

Berend, K.\*, K.L. Amatangelo, D. Weihrauch, C. Norment, and M. Penberthy. 2022. Plant traits and community metrics across a snowmelt gradient at alpine snowbank sites on Mt. Washington, NH. *Rhodora* 122(992):290-320.

Podoliak, J.\*, C. Norment, and K.L. Amatangelo. 2021. Increasing number of point counts influences estimates of bird and anuran species richness at the wetland scale. *Wetlands Ecology and Management* 30: 99-110.

Jackson, H.†, K.L. Amatangelo. 2021. Density-dependent impacts of invasive *Vincetoxicum rossicum* (pale swallowwort) and native *Asclepias syriaca* (common milkweed) on plant traits and competitive interactions. *Plant Ecology*. 222(9): 1065-1074. 10.1007/s11258-021-01161-1

Pineda-Munoz, S., A.M. Jukar, A.B. Toth, D. Fraser, A. Du, W.A. Barr, K.L. Amatangelo, M.A. Balk, A.K. Behrensmeyer, J. Blois, M. Davis, J.T. Eronen, N.J. Gotelli, C. Looy, J.H. Miller, A.B. Shupinski, L.C. Soul, A. Villasenor, S. Wing, and S.K. Lyons. 2021. Body mass-related changes in mammal community assembly patterns during the late Quaternary of North America. Ecography 44(1): 56-66. <https://doi.org/10.1111/ecog.05027>

Berend, K.\*, K.L. Amatangelo, D. Weihrauch and C. Norment. 2020. Effects of snow and temperature on the phenology of alpine snowbank plants on Mt. Washington, NH. *Rhodora* 122:1-22.

Amatangelo, K.L., L. Stevens†, D.A. Wilcox, S.T. Jackson and D.F. Sax. 2018. Provenance of invaders has scale-dependent impacts in a changing wetland ecosystem. *NeoBiota* 40:51-72.

Ward, S.† and K.L. Amatangelo. 2018. Suburban gardening in Rochester, New York: exotic plant preference and risk of invasion. *Landscape and Urban Planning* 180:161-165.

Drew, J. and **K.L.** **Amatangelo**. 2017. Community assembly of coral reef fishes along the Melanesian biodiversity gradient.  PLoS ONE 12(10): e0186123.

Waller, D.M, E. Mudrak, K.L. Amatangelo, S.M. Klionsky\* and D.A. Rodgers. 2016. Do associations between native and invasive plants provide signals of invasive impacts? Biological Invasions 18(12):3465-3480.

Johnson, S.E.\*, K.L. Amatangelo**,** P.A.Townsend and D.M. Waller. 2016. Large, connected floodplain forests prone to flooding best sustain plant diversity. Ecology 97(11):3019-3030.

Lyons, S. Kathleen, K.L. Amatangelo, A.K. Behrensmeyer, A. Bercovici, J. Blois, M. Davis, W. DiMichele, A. Du, J. Eronen, T. Faith, G. Graves, N. Jud, C. Labandiera, C. Looy, B. Micgill, J. Miller, D. Patterson, S. Pineda-Munoz, R. Potts, B. Riddles, R. Terry, A. Toth, W. Ulrich, A. Villasenor, A. Wing and S. Gotelli. 2016. Holocene shifts in the assembly of plant and animal communities implicate human impacts. *Nature* 529:80-83. doi:10.1038/nature16447.

Drew, J.,  **K.L.** **Amatangelo**and R. Hufbauer 2015. Quantifying the human impacts on Papua New Guinea reef fish communities across space and time. PLOS ONE 10(10). dx.doi.org/10.1371/journal.pone.0140682

**Amatangelo, K.L.**, S. Johnson\*, D. Rogers and D. Waller 2014. Trait-environment relationships remain strong despite fifty years of trait compositional change in temperate forests. Ecology 95:1780-1791.

Blois, J., N. Gotelli, A.K. Behrensmeyer, T. Faith, S. Lyons, J. Williams, K.L. Amatangelo, A. Bercovici, A. Du, J. Eronen, g. Graes, N. Jud, C. Labandiera, C. Looy, B. McGill, D. Patterson, R. Potts, B. Riddle, R. Terry, A. Toth, A. Villasenor and S. Wing. 2014. A framework for evaluating the influence of climate, dispersal limitation, and biotic interactions using fossil pollen associations across the late Quaternary. Ecography. 37(11):1095-1108.

Sonnier, G., S. Johnson, K.L. **Amatangelo,**D. Rogers and D. Waller. 2014. Is taxonomic homogenization linked to functional homogenization in temperate forests? Global Ecology and Biogeography 23(8):894-902.

Sabatini, F., J. Burton\*, R. Scheller, K.L. **Amatangelo**, and D. Mladenoff 2013. Functional diversity of ground-layer plant communities in old-growth and managed northern hardwood forests. Applied Vegetation Science 17(3):398-407.

Funk, J.L. and **K.L. Amatangelo**. Physiological mechanisms drive differing foliar calcium content in ferns and angiosperms. Oecologia 173(1):23-32.

Waller, D.M, **K.L. Amatangelo,**S. Johnson, and D.A. Rogers. 2012. Plant community survey and resurvey data from the Wisconsin Plant Ecology Laboratory. Biodiversity and Ecology 4: 255-264.

**Amatangelo, K.L.**, M.A. Fulton, D.A. Rogers, and D.M. Waller. 2011. Converging forest community composition along an edaphic gradient threatens landscape-level diversity. Diversity and Distributions 17(2):201-213.

Stewart, C.E., J.C. Neff, **K.L. Amatangelo**, and P.M. Vitousek. 2011. Vegetation effects on soil organic matter chemistry of aggregate fractions in a Hawaiian forest. Ecosystems 14(3) 382-397.

Klionsky, S.\*, **K.L. Amatangelo**, and D.M. Waller. 2011. Above- and below-ground impacts of European buckthorn (Rhamnus cathartica L.) on four native forbs. Restoration Ecology 19(6) 728-737.

**Amatangelo, K.L.**, and P.M. Vitousek. 2009. Contrasting predictors of fern versus angiosperm decomposition in a common garden. Biotropica 41:154-161.

**Amatangelo, K.L.**, and P.M. Vitousek. 2008. Stoichiometry of ferns in Hawaii: Implications for nutrient cycling. Oecologia 157:619-627.

Cornwell, W.K., J.H.C. Cornelissen, **K. Amatangelo**, and 25 others. 2008. Plant species traits are the predominant control on litter decomposition rates within biomes worldwide. Ecology Letters 11:1065-1071.

**Amatangelo, K.L.**, J.S. Dukes, and C.B. Field. 2008. Responses of a California annual grassland to litter manipulation. Journal of Vegetation Science 19:605-612.

**ORAL PRESENTATIONS, since 2014, external presentations only**

Lawrence, G., Amatangelo, K., Chislock, M. F., Schultz, R. E., Altenritter, M., Wilcox, D. A., Brady, V., Cooper, M., and D. Uzarski. Application of the Great Lakes Coastal Wetland Monitoring Program to Restoration Projects in Lake Ontario Wetlands. *New York State Wetlands Forum*, April 25, 2023. Niagara Falls, NY.

Marszalek, R. and K.L. Amatangelo. New York State Wetlands Forum 2023 Annual Conference and Meeting, The Effects of Japanese Knotweed on Arthropod Communities in Western New York, *New York State Wetlands Forum*, April 25, 2023. Niagara Falls, NY.

Sweeney, L., Zollweg, J. A., and K.L. Amatangelo. Using Spatial Analytics to Identify Floodplain Forests and Investigate Their Ecological Condition in Eastern New York. *New York State Wetlands Forum*, April 25, 2023. Niagara Falls, NY.

Graziano, A. and K.L. Amatangelo. Mapping the presence of invasive plants in a temperate forest fragment, *National Conference on Undergraduate Research,* April 14, 2023. University of Wisconsin, Eau Claire, Eau Claire, WI.

Buechi, C. and K.L. Amatangelo. 48th Annual Rochester Academy of Science Fall Paper Session, Impacts of forestry management on trees and oak seedlings in western New York oak forests, *Rochester Academy of Science Fall Paper Session*, October 29, 2022, Rochester, NY.

Graziano, A. and K.L. Amatangelo. 48th Annual Rochester Academy of Science Fall Paper Session, Mapping the presence of invasive plants in the Brockport Natural Area, *Rochester Academy of Science Fall Paper Session*, October 29, 2022, Rochester, NY.

Marszalek, R. and K.L. Amatangelo. 48th Annual Rochester Academy of Science Fall Paper Session, The potential of combined color and bottle traps for more efficient insect sampling, *Rochester Academy of Science Fall Paper Session*, October 29, 2022, Rochester, NY.

Marszalek, R. and K.L. Amatangelo. Early detection for spotted lantern fly in western New York. *FL-PRISM full partner meeting*. May 6, 2022. Victor, NY.

Graham, A., Amatangelo, K., Clay, T., Leonardi, A., and M. Aubertine. *Brachypodium* Management Initiative. *New York State Wetlands Forum*, April 26, 2022. Clayton, NY.

Davis, A. and K.L. Amatangelo. An investigation into the control of European Dewberry (*Rubus caesius*) in the Finger Lakes region of New York. *Rochester Academy of Science Fall Paper Session*, November 6, 2021, Rochester, NY.

Marszalek, R. and K.L. Amatangelo. Early detection for spotted lantern fly in western New York. *Rochester Academy of Science Fall Paper Session*, November 6, 2021, Rochester, NY.

Davis, A. and K.L. Amatangelo. An investigation into the control of European dewberry (*Rubus caesius*) in the Finger Lakes region of New York., *North American Invasive Species Management Association Annual Conference*, September 30, 2021, virtual.

Amatangelo, K.L., Hartl, C., Jackson, W. and S. Dube. Impacts of pale swallowwort on forest invertebrate communities. *North American Invasive Species Management Association Annual Conference*, September 30, 2021, virtual.

Mackey, E. and K.L. Amatangelo. Understanding mile-a-minute's (*Persicaria perfoliata*) treatment control methods in western New York. *North American Invasive Species Management Association Annual Conference*, September 30, 2021, virtual.

Reitler, A.and K.L. Amatangelo. An investigation into the control of European dewberry (*Rubus caesius*) in the Finger Lakes region of New York. *FL-PRISM full partner meeting*. May 3, 2021. Virtual

Schuler, H. and K.L. Amatangelo. Evaluating optimal environmental conditions for mile-a-minute (*Persicaria perfoliata*) growth and reproduction. *Rochester Academy of Science Fall Paper Session*, November 9, 2019. Rochester, NY.

Leonardi, A. and K.L. Amatangelo. Rochester Academy of Science Fall Paper Session, Exploring the effects of slender false-brome on temperate forest ecosystem processes. *Rochester Academy of Science Fall Paper Session*, November 9, 2019. Rochester, NY.

Aubertine, M., and K.L. Amatangelo. Rochester Academy of Science Fall Paper Session, Impact of slender false-brome on plant communities in New York State. *Rochester Academy of Science Fall Paper Session,* November 9, 2019. Rochester, NY.

Mackey, E. and K.L. Amatangelo. Rochester Academy of Science Fall Paper Session, Understanding mile-a-minute (*Persicaria perfoliata*) phenology and treatment methods in western New York. *Rochester Academy of Science Fall Paper Session, November 9, 2019*. Rochester, NY.

Jackson, W. and K.L. Amatangelo. Effects of pale swallowwort (*Cynanchum rossicum*) on native forest moth communities. *The Northeast Natural History Conference*, 2018. Eagle Hill Institute, Burlington, VT.

Hartl, C. and K.L. Amatangelo. Invasive swallowwort (*Cynanchum* spp.) and small-mammal interactions determining tick abundance. *The Northeast Natural History Conference*, 2018. Eagle Hill Institute, Burlington, VT.

Berend, K. and K.L. Amatangelo. Plant traits and community metrics along a snowmelt gradient at alpine snowbank sites on Mt. Washington, NH. *The Northeast Natural History Conference*, 2018. Eagle Hill Institute, Burlington, VT.

Broz, K. and K.L. Amatangelo. White-tailed deer endozoochory: A year of pellet germination and analysis. *The Northeast Natural History Conference*, 2018. Eagle Hill Institute, Burlington, VT.

DeToy, J. and K.L. Amatangelo. Investigating the allelopathic effects of pale swallowwort on the growth success of common milkweed and pale swallowwort. *44th Annual Fall Scientific Paper Session of the Rochester Academy of Science*, 2017. Rochester, NY.

Berend, K. and K.L. Amatangelo. The ecology of alpine snowbank communities of Mt. Washington, NH., *44th Annual Fall Scientific Paper Session of the Rochester Academy of Science*, 2017. Rochester, NY.

Jackson, W. and K.L. Amatangelo. The effects of pale swallowwort on native moth communities., *44th Annual Fall Scientific Paper Session of the Rochester Academy of Science*, 2017. Rochester, NY.

Hartl, C. and K.L. Amatangelo. Vegetation and small mammal interactions determining tick abundance across spatial scales, *44th Annual Fall Scientific Paper Session of the Rochester Academy of Science*, 2017. Rochester, NY.

Amatangelo, K.L. Survey for *Hydrilla* in inland water bodies of Monroe County. *Full Partnership meeting of the Finger Lakes Partnership for Invasive Species Management*, 2017. Syracuse, NY.

Ward, S. and K.L. Amatangelo. Can C-values provide appropriate estimates of disturbance thresholds for rare plant species? Evidence from American bittersweet (*Celastrus scandens*) populations in Western New York. *Northeast Natural History Conference*, 2017. Cromwell, CT.

Berend, K., Amatangelo, K.L., and C.J. Norment. Ecology of alpine snowbank communities of Mt. Washington, NH. *Northeast Natural History Conference,* 2017. Cromwell, CT.

Broz, K. and K.L. Amatangelo. How white-tailed deer overabundance changes plant communities: Baseline exclosure data and methodologies. *Northeast Natural History Conference*, 2017. Cromwell, CT.

Wybron, M., Amatangelo, K., Broz, K., Forzano, L.-A. B. and M. Desrochers. Using goats to control invasive plant species. *Northeast Natural History Conference*, 2017. Cromwell, CT.

Jackson, H. and K.L. Amatangelo. Effects of competitive growth on survival and fitness of native *Asclepias syriaca* and invasive *Cynanchum rossicum*. *SUNY Undergraduate Research Conference* 2017. Fredonia, NY.

## Jackson, H. and K.L. Amatangelo. Effects of competitive growth on survival and fitness of native Asclepias syriaca and invasive Cynanchum rossicum. NCUR 31st Annual National Conference on Undergraduate Research, 2017. Memphis, TN.

Bock, B. B., Desrochers, M., Forzano, L.-A. B., Hansen, K., Amatangelo, K., Wybron, M., and H. Mosher. Behavioral Observation to Determine Whether Goats Will Consume Invasive Weeds. *New York State Society for the Association for Behavior Analysis Meeting*, 2016. Albany, NY.

Polzer, E., Wilcox, D. A. and K.L. Amatangelo. Year 1 post-restoration assessment of Great Lakes coastal sedge meadow recovery. *Ecological Society of America Annual Meeting,* 216. Ft. Lauderdale, FL.

Ward, S. and K.L. Amatangelo. Report on 2015 subcontract work: Exotic plant dominate suburban gardens. *Finger Lakes Partnership for Invasive Species Management Annual Meeting*, 2016.

Drake, P., Bock, B., Shannon, C., Rice, B., Desrochers, M., Forzano, L., Hansen, K., Amatangelo, K., and H. Mosher. Evaluation of Goat Preferences for Consuming Invasive Weed Species. *Finger Lakes Research Conference,* 2015. Geneva, NY.

Ward, S. and K.L. Amatangelo. People and plants: Does the surburban landscape support native species? *Finger Lakes Research Conference*, 2015. Geneva, NY.

Hansen, K., Amatangelo, K., Desrochers, M., and L. Forzano. Using goats to control invasive plant species: a pilot project. *Finger Lakes Research Conference*, 2015. Geneva, NY.

Ward, S. and K.L. Amatangelo. Exotic plants dominate suburban gardens. *42nd Annual Fall Scientific Paper Session of the Rochester Academy of Science*, 2015. Rochester, NY

Amatangelo, K.L., A. McDermott and J. Drew. Community assembly of coral reef fishes along the Melanesian biodiversity gradient. *Ecological Society of America annual meeting*, 2015. Baltimore, MD.

Amatangelo, K.L., Causes and consequences of temperate forest community changes over half a century. *Invited seminar,* 2014. Columbia University.

Ward, S. and K.L. Amatangelo. Swallowwort: Passenger or Driver of Change? *New York Six Liberal Arts Consortium Upstate New York Undergraduate Research Conference*, 2014, Geneva, NY.

**OTHER OUTREACH**

Amatangelo, K. and L. Martin, L. 2020 European Dewberry: Identifying and Understanding a New Riparian Invader. *Invasive Species Webinar Series*, FL-PRISM. May 20, 2020.

Amatangelo, K.L. and G. Koplun. 2020. Mile-a-minute early detection in Western New York. *WNY-PRISM Early Detection Webinar*. April 30, 2020.

Amatangelo, K. 2019. Mile-a-minute: Invasion potential and treatment strategies. *The Laker News, vol. Winter 2019-2020.* Conesus Lake Association.

Amatangelo, K.L. 2019. Terrestrial invasive species research at The College at Brockport. *FL-PRISM Annual Meeting,* 2019. Geneva, NY.

Mackey, E. and K.L. Amatangelo. 2019. Presentation. Understanding mile-a-minute’s *Persicaria perfoliata* phenology and treatment control methods in western New York. *2019 Giant Hogweed/MAM/Spotted Lanternfly Training Workshop – Livingston County.* October 29, 2019. Lakeville, NY.

Amatangelo, K. and C. Hartl. 2019. Invasive plants and blacklegged ticks: A positive relationship. *SLELO PRISM Summer 2019 Newsletter.*

**STUDENT RESEARCH MENTORING, since 2014**

MS student advisor: Ray Marszalek (2021-present), Charlotte Buechi (2021-present), Lydia Sweeney (2022-present), Alexis Reitler (2020-present), Megan Aubertine (2019-present), Andrew Leonardi (2018-present), Erica Mackey (2018-present), Jeremy Brady (2017-present), Scott Ward (MS ‘19), Claire Hartl (MS ‘19), Kira Hansen (MS ‘19), Kevin Berend (MS ‘18).

MS student committee member: Lexi Belleville (2021-present), Andrew Spagnuolo (2021-present), Bennett Amberger (2020-2021), Kevin Killigrew (2019-present), Courtney Scoles (2018-present), Tammy Bleier (2018-present), Michelle Gianvecchio (MS ‘21), Tiffany Clay (2016-present), Alex Silva (MS ‘20), Cassie Wolfanger (MS ’19), Eli Polzer (MS ‘18), Jon Podoliak (MS ‘18), Greg Lawrence (MS ‘18), Molly Stetz (MS ‘16), Katie Desjardin (MS ‘15).

Undergraduate Honors thesis mentor: Samantha Dube (BS ‘19), Benjamin Hoy (BS ‘19), Matt Penberthy (BS ‘18), Wyatt Jackson (BS ’18), Jessica Detoy (BS ‘17), Megan Casler (BS ‘17), Holly Jackson (BS ‘17)

SURP research project mentor: Adam Granziano (SURP 2022), Broke Wilkins (SURP 2022), Hannah Schuler (2019-2020), Jenna Malagisi (BS ‘19), Wyatt Jackson (BS ‘18), Christopher Plummer (BS ‘18), Holly Jackson x 2 (BS ‘17), Scott Ward x 2 (BS ‘16)

Undergraduate Independent Study for credit, in addition to students listed above: Deanna Platt (2014), McKenzie Wybron (2017), Ashlee Dow (2018), Eric Olen (2019), Steven Altreith (2022), Hailey Mitchell (2022), Allison Morrow (2021, 2022).

**COURSES TAUGHT**

Plant Diversity (ENV 400/ENV 500). With lab.

Plant Ecology (ENV 405/ENV 505). With lab

Ecology (ENV 303/BIO 303). With lab.

Biostatistics (ENV 337/ENV 537).

Plant and Ecosystem Ecology (ENV 444/ENV 544).

Conservation Biology (ENV 439/ENV 539).

Thesis Practicum (HON 395)

Graduate Experimental Design (ENV 706).

Graduate Writing (ENV 707).

Graduate Professional Development (ENV 708).

**SYNERGISTIC ACTIVITES**

2018-present Member of the *Brachypodium* working group. This working group brings together researchers, managers, and state employees across the region to share information about the invasive species *Brachypodium sylvaticum.*

2017-present Member of the SUNY Virtual Herbarium Network, funded by a SUNY Innovative Instruction Technology Grant, PI S. Robinson. The Virtual Herbarium Network aims to digitize and collate each of the regional herbaria contained at SUNY schools across New York, and increase communication and collaboration between researchers between SUNY schools.

2014-present Steering Committee and Terrestrial Working Group member of the Finger Lakes Partnership for Invasive Species Management. FL-PRISM  is a cooperative partnership of diverse stakeholders from throughout the central region of New York State with a mission to reduce the introduction, spread, and impact of invasive species within the region through coordinated education, detection, prevention, and control measures. As a member of FL-PRISM I collaborate to consolidate and share information on invasive species research and education, and contribute to discussions on prioritization of funding and communication in our region.

2014-2016 Rochester School District Mathematics and Science Partnership Program – Biology workshop session leader. This Professional Development opportunity had the goal of increasing 60+ local teachers’ science knowledge and mastery of the scientific method. I developed multiple learning sessions, activities, and a ‘term’ project for teachers over the three years of the program.

2011-2018 Steering Committee member of the Synthesizing Deep Time and Recent Community Ecology NSF-DEB Research Coordination Network (RCN), PIs S.K. Lyons, A.K. Behrensmeyer, N.J. Gotelli. This NSF-funded network brings together both paleo- and neo-ecologists to combine knowledge and perspective from often-disparate fields. Our work on co-occurrence and community assembly has led to multiple manuscripts, including one in the journal Nature.