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CURRICULUM VITAE

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PERSONAL INFORMATION

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EDUCATION

Florida State University, 1982 - 1985; Ph.D., December 1985 Advisor: D. Simberloff

Florida State University 1980 - 1982; M.S. June 1982 Advisor: L.G. Abele
University of California, Berkeley, 1976 - 1980; B.A. 1980 Phi Beta Kappa

POST-GRADUATE APPOINTMENTS

2000-present. Full Professor, Department of Biology, University of Vermont

2008-2010. Adjunct Professor, Xishuangbanna Tropical Botanical Garden,
Chinese Academy of Sciences

1995 - 2000. Associate Professor, Department of Biology, University of Vermont

1992-1994. Assistant Professor, Department of Biology, University of Vermont

1988 - 1992. Assistant Professor, Department of Zoology, University of
Oklahoma

1987 - 1988. Post-doctoral Associate, Department of Biology, Colorado State
University

1985 - 1987. Lecturer, Department of Organismic and Evolutionary Biology,
Harvard University

RESEARCH INTERESTS

Community ecology

Responses of populations and communities to altered nutrient regimes

Biogeography and island biology

Demography and extinction risk

Null models and species co-occurrence patterns

TEACHING INTERESTS

Theoretical, Community, Population, Experimental Ecology

Ecological Modeling

Biostatistics

Biogeography

TEACHING/RESEARCH AWARDS

Elected Member of Vermont Academy of Sciences & Engineering, 2013

Fulbright Fellow 1993

Dean's Lecturer 1997

University Scholar 2005

PUBLICATIONS

2016

- Agnarsson, I., N. J. Gotelli, D. Agostini, and M. Kuntner. 2016. Limited role of character displacement in the coexistence of congeneric *Anelosimus* spiders in a Madagascan montane forest. **Ecography** 39:743-753.
- Colwell, R. K., N. J. Gotelli, L. A. Ashton, J. Beck, G. Brehm, T. M. Fayle, K. Fiedler, M. L. Forister, M. Kessler, R. L. Kitching, P. Klimes, J. Kluge, J. T. Longino, S. C. Maunsell, C. M. McCain, J. Moses, S. Noben, K. Sam, L. Sam, A. M. Shapiro, X. P. Wang, and V. Novotny. 2016. Midpoint attractors and species richness: Modelling the interaction between environmental drivers and geometric constraints. **Ecology Letters** 19:1009-1022.
- Dambros, C.S., J.W. Morais, A. Vasconcellos, J.L.P. Souza, E. Franklin, and N.J. Gotelli. 2016. Association of ant predators and edaphic conditions with termite diversity in an Amazonian rain forest. **Biotropica** 48:237-245.
- Diamond, S. E., L. M. Nichols, S. L. Pelini, C. A. Penick, G. W. Barber, S. H. Cahan, R. R. Dunn, A. M. Ellison, N. J. Sanders, and N. J. Gotelli. 2016. Climatic warming destabilizes forest ant communities. **Science Advances** 2.
- Lyons, S.K., K.L. Amatangelo, A.K. Behrensmeyer, A. Bercovici, J.L. Blois, M. Davis, W.A. DiMichele, A. Du, J.T. Eronen, J.T. Faith, G.R. Graves, N. Jud, C. Labandeira, C.M. Looy, B. McGill, J.H. Miller, D. Patterson, S. Pineda-Munoz, R. Potts, B. Riddle, R. Terry, A. Toth, W. Ulrich, A. Villasenor, S. Wing, H. Anderson, J. Anderson, D. Waller, and N.J. Gotelli. 2016. Holocene shifts in the assembly of plant and animal communities implicate human impacts. **Nature** 529:80-83.
- Lyons, S. K., J. H. Miller, K. L. Amatangel, A. K. Behrensmeyer, A. Bercovici, J. L. Blois, M. Davis, W. DiMichele, A. Du, J. T. Eronen, J. T. Faith, G. R. Graves, N. Jud, C. Labandeira, C. V. Looy, B. McGill, D. Patterson, S. Pineda-Munoz, R. Potts, B. Riddle, R. Terry, A. Toth, W. Ulrich, A. Villasenor, S. Wing, H. Anderson, J. Anderson, and N. J. Gotelli. 2016b. How foreign is the past? Reply. **Nature** 538:E3-E4.
- Nguyen, A.D., N.J. Gotelli, and S.H. Cahan. 2016. The evolution of heat shock protein sequences, cis-regulatory elements, and expression profiles in the eusocial Hymenoptera. **BMC Evolutionary Biology** 16.
- Prevedello, J. A., N. J. Gotelli, and J. P. Metzger. 2016. A stochastic model for landscape patterns of biodiversity. **Ecological Monographs** 86:462-479.
- Stanton-Geddes, J., A. Nguyen, L. Chick, J. Vincent, M. Vangala, R.R. Dunn, A.M. Ellison, N.J. Sanders, N.J. Gotelli, and S.H. Cahan. 2016. Thermal

reactionomes reveal divergent responses to thermal extremes in warm and cool-climate ant species. **BMC Genomics** 17.

Ulrich, W., M. K. Zaplata, S. Winter, W. Schaaf, A. Fischer, S. Soliveres, and N. J. Gotelli. 2016. Species interactions and random dispersal rather than habitat filtering drive community assembly during early plant succession. **Oikos** 125:698-707.

2015

Cayuela, L., N. J. Gotelli, and R. K. Colwell. 2015. Ecological and biogeographic null hypotheses for comparing rarefaction curves. **Ecological Monographs** 85:437-455.

Chao, A., T. C. Hsieh, R. L. Chazdon, R. K. Colwell, and N. J. Gotelli. 2015. Unveiling the species-rank abundance distribution by generalizing the Good- Turing sample coverage theory. **Ecology** 96:1189-1201.

Dambros, C. S., N. C. Caceres, L. Magnus, and N. J. Gotelli. 2015. Effects of neutrality, geometric constraints, climate, and habitat quality on species richness and composition of Atlantic Forest small-mammals. **Global Ecology and Biogeography** 24:1084-1093.

Garcia-Valdes, R., N. J. Gotelli, M. A. Zavala, D. W. Purves, and M. B. Araujo. 2015. Effects of climate, species interactions, and dispersal on decadal colonization and extinction rates of Iberian tree species. **Ecological Modelling** 309:118-127.

Gotelli, N. J., and J. Stanton-Geddes. 2015. Climate change, genetic markers and species distribution modelling. **Journal of Biogeography** 42:1577-1585.

Lopes, G. N., M. F. Souza, N. J. Gotelli, L. J. U. Lemos, W. A. C. Godoy, and R. A. Zucchi. 2015. Temporal Overlap and Co-Occurrence in a Guild of Sub-Tropical Tephritid Fruit Flies. **Plos One** 10.

Magurran, A. E., M. Dornelas, F. Moyes, N. J. Gotelli, and B. McGill. 2015. Rapid biotic homogenization of marine fish assemblages. **Nature Communications** 6.

McGill, B. J., M. Dornelas, N. J. Gotelli, and A. E. Magurran. 2015. Fifteen forms of biodiversity trend in the Anthropocene. **Trends in Ecology & Evolution** 30:104-113.

2014

Blois, J.L., N.J. Gotelli, A.K. Behrensmeyer, J.T. Faith, S.K. Lyons, J.W. Williams, K.L. Amatangelo, A. Bercovici, A. Du, J.T. Eronen, G.R. Graves, N. Jud, C. Labandeira, C.V. 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** 37:1095-1108.

Chao, A., N.J. Gotelli, T.C. Hsieh, E.L. Sander, K.H. Ma, R.K. Colwell, and A.M. Ellison. 2014. Rarefaction and extrapolation with Hill numbers: a

- framework for sampling and estimation in species diversity studies. **Ecological Monographs** 84:45-67.
- Dornelas, M., N.J. Gotelli, B. McGill, H. Shimadzu, F. Moyes, C. Sievers, and A.E. Magurran. 2014. Assemblage time series reveal biodiversity change but not systematic loss. **Science** 344:296-299.
- Ellison, A.M., N.J. Gotelli, N. Hsiang, M. Lavine, and A.B. Maidman. 2014. Kernel intensity estimation of 2-dimensional spatial poisson point processes from k-tree sampling. **Journal of Agricultural Biological and Environmental Statistics** 19:357-372.
- Dornelas, M., N.J. Gotelli, B. McGill, and A.E. Magurran. 2014. Overlooked local biodiversity loss- Response. **Science** 344:1098-1099.
- Ellison, A.M., N.J. Gotelli, B.D. Inouye, and D.R. Strong. 2014. P values, hypothesis testing, and model selection: it's deja vu all over again. **Ecology** 95:609-610.
- Pelini, S.L., S.E. Diamond, L.M. Nichols, K.L. Stuble, A.M. Ellison, N.J. Sanders, R.R. Dunn, and N.J. Gotelli. 2014. Geographic differences in effects of experimental warming on ant species diversity and community composition. **Ecosphere** 5.
- Resasco, J., S.L. Pelini, K.L. Stuble, N.J. Sanders, R.R. Dunn, S.E. Diamond, A.M. Ellison, N.J. Gotelli, and D.J. Levey. 2014. Using historical and experimental data to reveal warming effects on ant assemblages. **Plos One** 9.
- Ulrich, W., S. Soliveres, W. Kryszewski, F.T. Maestre, and N.J. Gotelli. 2014. Matrix models for quantifying competitive intransitivity from species abundance data. **Oikos** 123:1057-1070.
- Ulrich, W., S. Soliveres, F.T. Maestre, N.J. Gotelli, J.L. Quero, M. Delgado-Baquerizo, M.A. Bowker, D.J. Eldridge, V. Ochoa, B. Gozalo, E. Valencia, M. Berdugo, C. Escolar, M. Garcia-Gomez, A. Escudero, A. Prina, G. Alfonso, T. Arredondo, D. Bran, O. Cabrera, A. P. Cea, M. Chaieb, J. Contreras, M. Derak, C.I. Espinosa, A. Florentino, J. Gaitan, V.G. Muro, W. Ghiloufi, S. Gomez-Gonzalez, J.R. Gutierrez, R.M. Hernandez, E. Huber-Sannwald, M. Jankju, R.L. Mau, F.M. Hughes, M. Miriti, J. Monerris, M. Muchane, K. Naseri, E. Pucheta, D.A. Ramirez-Collantes, E. Raveh, R. L. Romao, C. Torres-Diaz, J. Val, J.P. Veiga, D.L. Wang, X. Yuan, and E. Zaady. 2014. Climate and soil attributes determine plant species turnover in global drylands. **Journal of Biogeography** 41:2307-2319.

2013

- Diamond, S.E., C.A. Penick, S.L. Pelini, A.M. Ellison, N.J. Gotelli, N.J. Sanders, and R.R. Dunn. 2013. Using physiology to predict the responses of ants to climatic warming. **Integrative And Comparative Biology** 53: 965-974.
- Sirota, J., B. Baiser, N.J. Gotelli, and A.M. Ellison 2013. Organic-matter loading determines regime shifts and alternative states in an aquatic ecosystem. **Proceedings Of The National Academy of Sciences** 110: 7742-7747.

- Fitzpatrick, M.C., N.J. Gotelli, and A.M. Ellison. 2013. Maxent vs. Maxlike: empirical comparisons with ant species distributions. **Ecosphere** 45: 55.
- Baiser, B., H.L. Buckley, N.J. Gotelli, and A.M. Ellison. 2013. Predicting food-web structure with metacommunity models. **Oikos** 122: 492-506.
- Dornelas, M., A.E. Magurran, S.T. Buckland, A. Chao, R.L. Chazdon, R.K. Colwell, T.Curtis, K.J. Gaston, N.J. Gotelli, M.A. Kosnik, B. McGill, J.L. McCune, H. Morlon, P.J. Mumby, L. Ovreas, A. Studeny, and M. Velland. 2013. Quantifying temporal change in biodiversity: challenges and opportunities. **Proceedings of The Royal Society B** 280. DOI: 10.1098/rspb.2012.1931.
- Ulrich, W. and N.J. Gotelli. 2013. Pattern detection in null model analysis. **Oikos** 122: 2-18.

2012

- Baiser, B., N. J. Gotelli, H. L. Buckley, T. E. Miller, and A. M. Ellison. 2012. Geographic variation in network structure of a nearctic aquatic food web. **Global Ecology and Biogeography** 21:579-591.
- Borregaard, M. K., N. J. Gotelli, and C. Rahbek. 2012. Are range size distributions consistent with species-level heritability? **Evolution** 66:2216-2226.
- Colwell, R. K., A. Chao, N. J. Gotelli, S. Y. Lin, C. X. Mao, R. L. Chazdon, and J. T. Longino. 2012. Models and estimators linking individual-based and sample-based rarefaction, extrapolation and comparison of assemblages. **Journal of Plant Ecology** 5:3-21.
- Diamond, S. E., L. M. Nichols, N. McCoy, C. Hirsch, S. L. Pelini, N. J. Sanders, A. M. Ellison, N. J. Gotelli, and R. R. Dunn. 2012. A physiological trait-based approach to predicting the responses of species to experimental climate warming. **Ecology** 93:2305-2312.
- Gotelli, N. J., A. Chao, R. K. Colwell, W. H. Hwang, and G. R. Graves. 2012. Specimen-Based Modeling, Stopping Rules, and the Extinction of the Ivory-Billed Woodpecker. **Conservation Biology** 26:47-56.
- Gotelli, N. J., A. M. Ellison, and B. A. Ballif. 2012. Environmental proteomics, biodiversity statistics and food-web structure. **Trends in Ecology & Evolution** 27:436-442.
- Gotelli, N. J. and W. Ulrich. 2012. Statistical challenges in null model analysis. **Oikos** 121:171-180.
- Maestre, F. T., J. L. Quero, N. J. Gotelli, A. Escudero, V. Ochoa, M. Delgado-Baquerizo, M. Garcia-Gomez, M. A. Bowker, S. Soliveres, C. Escolar, P. Garcia-Palacios, M. Berdugo, E. Valencia, B. Gozalo, A. Gallardo, L. Aguilera, T. Arredondo, J. Blones, B. Boeken, D. Bran, A. A. Conceicao, O. Cabrera, M. Chaieb, M. Derak, D. J. Eldridge, C. I. Espinosa, A. Florentino, J. Gaitan, M. G. Gatica, W. Ghiloufi, S. Gomez-Gonzalez, J. R. Gutierrez, R. M. Hernandez, X. W. Huang, E. Huber-Sannwald, M. Jankju, M. Miriti, J. Moneris, R. L. Mau, E. Morici, K. Naseri, A. Ospina, V. Polo, A. Prina, E. Pucheta, D. A. Ramirez-Collantes, R. Romao, M. Tighe, C. Torres-Diaz, J. Val, J. P. Veiga, D. L. Wang, and E. Zaady. 2012. Plant

- Species Richness and Ecosystem Multifunctionality in Global Drylands. **Science** 335:214-218.
- Maestre, F. T., S. Soliveres, N. J. Gotelli, J. L. Quero, and M. Berdugo. 2012b. Response to Comment on "Plant Species Richness and Ecosystem Multifunctionality in Global Drylands". **Science** 337.
- Pelini, S. L., S. E. Diamond, H. MacLean, A. M. Ellison, N. J. Gotelli, N. J. Sanders, and R. R. Dunn. 2012. Common garden experiments reveal uncommon responses across temperatures, locations, and species of ants. **Ecology and Evolution** 2:3009-3015.
- Ulrich, W. and N. J. Gotelli. 2012. A null model algorithm for presence-absence matrices based on proportional resampling. **Ecological Modelling** 244:20-27.
- Ulrich, W., M. Piwczynski, F. T. Maestre, and N. J. Gotelli. 2012. Null model tests for niche conservatism, phylogenetic assortment and habitat filtering. **Methods in Ecology and Evolution** 3:930-939.
- 2011
- Pelini, S. L., F.P. Bowles, A.M. Ellison, N.J. Gotelli, N.J. Sanders, and R.R. Dunn. 2011. Heating up the forest: open-top chamber warming manipulation of arthropod communities at Harvard and Duke Forests. **Methods in Ecology and Evolution** 2: 534-540.
- Pelini, S. L., M. Boudreau, N. McCoy, A. M. Ellison, N. J. Gotelli, N. J. Sanders, and R. R. Dunn. 2011. Effects of short-term warming on low and high latitude forest ant communities. **Ecosphere** 2: art62.
- Gotelli, N.J. and W. Ulrich. 2011. Over-reporting bias in null model analysis: a reponse to Fayle and Manica (2010). **Ecological Modelling** 222: 1337-1339.
- Wittman, S.E. and N.J. Gotelli. 2011. Predicting community structure of ground-foraging ant assemblages with Markov models of behavioral dominance. **Oecologia** 166: 207-219.
- Jules, E.S., A.M. Ellison, N.J. Gotelli, S. Lillie, G.A. Meindl, N.J. Sanders, and A.N. Young. 2011. Influence of fire on a rare serpentine plant assemblage: a 5-year study of *Darlingtonia* fens. **American Journal of Botany** 98: 801-811.
- Gotelli, N.J., A.M. Ellison, N.J. Sanders, and R.R. Dunn. 2011. Counting ants (Hymenoptera: Formicidae): biodiversity sampling and statistical analysis for myrmecologists. **Myrmecological News** 15: 13-19.
- Gotelli, N.J., A.M. Smith, A.M. Ellison, and B.A. Ballif. 2011. Proteomic characterization of the major arthropod associates of the carnivorous pitcher plant *Sarracenia purpurea*. **Proteomics** 11: 2354-2358.
- Jenkins, C.N., N.J. Sanders, A.N. Andersen, X. Arnan, C.A. Bruhl, X. Cerda, A.M. Ellison, B.L. Fisher, M.C. Fitzpatrick, N.J. Gotelli, A.D. Gove, B. Guenard, J.E. Lattke, J.P. Lessard, T.P. McGlunn, S.B. Menke, C.L. Parr, S.M. Philpott, H.L. Vasconcelos, M.D. Weiser, and R.R. Dunn. 2011. Global diversity in light of climate change: the case of ants. **Diversity and Distributions** 17: 652-662.

Hart, E.M. and N.J. Gotelli. 2011. The effect of climate change on density-dependent population dynamics of aquatic invertebrates. **Oikos** 120: 1227-1234.

2010

Gotelli, N.J., G.R. Graves, and C. Rahbek. 2010. Macroecological signals of species interactions in the Danish avifauna. **Proceedings of the National Academy of Sciences, U.S.A.** 107: 530-535. [Science Perspectives by Brian McGill]

Gotelli, N.J., R.M. Dorazio, A.M. Ellison, and G.D. Grossman. 2010. Detecting temporal trends in species assemblages with bootstrapping procedures and hierarchical models. **Philosophical Transactions of the Royal Society B** 365:3621-3631.

Ulrich, W. and N.J. Gotelli. 2010. Null model analysis of species associations using abundance data. **Ecology** 91:3384-3397.

Gotelli, N.J. and W. Ulrich. 2010. The empirical Bayes approach as a tool to identify non-random species associations. **Oecologia** 162:463-477.

Wittman, S.E., N.J. Sanders, A.M. Ellison, E.S. Jules, J.S. Ratchford, and N.J. Gotelli. 2010. Species interactions and thermal constraints on ant community structure. **Oikos** 119:551-559.

Buckley, H.L., T.E. Miller, A.M. Ellison, and N.J. Gotelli. 2010. Local- to continental-scale variation in the richness and composition of an aquatic food web. **Global Ecology and Biogeography** 19:711-723.

Weiser, M.D., N.J. Sanders, D. Agosti, A.N. Andersen, A.M. Ellison, B.L. Fisher, H. Gibb, N.J. Gotelli, A.D. Gove, K. Gross, B. Guenard, M. Janda, M. Kaspari, J-P. Lessard, J.T. Longino, J.D. Majer, S.B. Mencke, T.P. McGlynn, C.L. Parr, S.M. Philpott, J. Retana, A.V. Saurez, H.L. Vasconcelos, S.P. Yanoviak, and R.R. Dunn. 2010. Canopy and litter ant assemblages share similar climate-species density relationships. **Biology Letters** 6:769-772.

2009

Chao, A., R. K. Colwell, C. W. Lin, and N. J. Gotelli. 2009. Sufficient sampling for asymptotic minimum species richness estimators. **Ecology** 90:1125-1133.

Colwell, R. K., N. J. Gotelli, C. Rahbek, G. L. Entsminger, C. Farrell, and G. R. Graves. 2009. Peaks, plateaus, canyons, and craters: the complex geometry of simple mid-domain effect models. **Evolutionary Ecology Research** 11:355-370.

Dunn, R. R., D. Agosti, A. N. Andersen, X. Arnan, C. A. Bruhl, X. Cerda, A. M. Ellison, B. L. Fisher, M. C. Fitzpatrick, H. Gibb, N. J. Gotelli, A. D. Gove, B. Guenard, M. Janda, M. Kaspari, E. J. Laurent, J. P. Lessard, J. T. Longino, J. D. Majer, S. B. Menke, T. P. McGlynn, C. L. Parr, S. M. Philpott, M. Pfeiffer, J. Retana, A. V. Suarez, H. L. Vasconcelos, M. D. Weiser, and N. J. Sanders. 2009. Climatic drivers of hemispheric asymmetry in global patterns of ant species richness. **Ecology Letters** 12:324-333.

- Ellison, A. M. and N. J. Gotelli. 2009. Energetics and the evolution of carnivorous plants: Darwin's 'most wonderful plants in the world'. **Journal of Experimental Botany** 60:19-42.
- Gotelli, N. J., M. J. Anderson, H. T. Arita, A. Chao, R. K. Colwell, S. R. Connolly, D. J. Currie, R. R. Dunn, G. R. Graves, J. L. Green, J. A. Grytnes, Y. H. Jiang, W. Jetz, S. K. Lyons, C. M. McCain, A. E. Magurran, C. Rahbek, T. Rangel, J. Soberon, C. O. Webb, and M. R. Willig. 2009. Patterns and causes of species richness: a general simulation model for macroecology. **Ecology Letters** 12:873-886.
- Lessard, J. P., J. A. Fordyce, N. J. Gotelli, and N. J. Sanders. 2009. Invasive ants alter the phylogenetic structure of ant communities. **Ecology** 90:2664-2669.
- Ulrich, W., M. Almeida-Neto, and N.J. Gotelli. 2009. A consumer's guide to nestedness analysis. **Oikos** 118: 3-17.

2008

- Butler, J.L., N.J. Gotelli, and A.M. Ellison. 2008. Linking the brown and green: Nutrient transformation and fate in the *Sarracenia* microecosystem. **Ecology** 89:898-904.
- Gotelli, N.J., P.J. Mouser, S.P. Hudman, S.E. Morales, D.S. Ross, and A.M. Ellison. 2008. Geographic variation in nutrient availability, stoichiometry, and metal concentrations of plants and pore-water in ombrotrophic bogs in New England, USA. **Wetlands** 28:827-840.
- Gruner, D.S., N.J. Gotelli, J.P. Price, and R.H. Cowie. 2008. Does species richness drive speciation? A reassessment with the Hawaiian biota. **Ecography** 31:279-285.
- Healy, C., N.J. Gotelli, and C. Potvin. 2008. Partitioning the effects of biodiversity and environmental heterogeneity for productivity and mortality in a tropical tree plantation. **Journal of Ecology** 96:903-913.
- Potvin, C. and N.J. Gotelli. 2008. Biodiversity enhances individual performance but does not affect survivorship in tropical trees. **Ecology Letters** 11:217-223. [Science *Editor's Choice* by Andrew Sugden]

2007

- Dunn, R.R., N.J. Sanders, M.C. Fitzpatrick, E. Laurent, J.-P. Lessard, D. Agosti, A. Andersen, C. Bruhl, X. Cerda, A.M. Ellison, B. Fisher, H. Gibb, N. Gotelli, A. Gove, B. Guenard, M. Janda, M. Kaspari, J.T. Longino, J. Majer, T.G. McGlynn, S. Menke, C. Parr, S. Philpott, M. Pfeiffer, J. Retana, A. Suarez, and H. Vasconcelos. 2007. Global ant biodiversity and biogeography - a new database and its possibilities. **Myrmecological News** 10: 77-83.
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- Hudman, S.P. and N.J. Gotelli. 2007. Intra- and intersexual selection on male body size are complimentary in the fathead minnow (*Pimephales promelas*). **Behaviour** 144:1065-1086.
- Rahbek, C., N. J. Gotelli, R. K. Colwell, G. L. Entsminger, T. F. L. V. B. Rangel, and G. R. Graves. 2007. Predicting continental patterns of bird species richness with spatially explicit models. **Proceedings of the Royal Society B** 274: 165-174. (supplemental material) [Science *Editor's Choice* by Andrew Sugden]
- Sanders, N.J., N.J. Gotelli, S.E. Wittman, J.S. Ratchford, A.M. Ellison, and E.S. Jules. 2007. Assembly rules of ground-foraging ant assemblages are contingent on disturbance, habitat and spatial scale. **Journal of Biogeography** 34:1632-1641.
- Ulrich, W. and N.J. Gotelli. 2007a. Disentangling community patterns of nestedness and species co-occurrence. **Oikos** 116:2053-2061.
- Ulrich, W. and N.J. Gotelli. 2007b. Null model analysis of species nestedness patterns. **Ecology** 88:1824-1831.

2006

- Gotelli, N. J., and A. M. Ellison. 2006. Food-web models predict species abundance in response to habitat change. **PLoS Biology** 44: e324. (supplemental material) [Science *Editor's Choice* by Andrew Sugden; Nature *News & Views* by Jonathan Shurin]
- Gotelli, N. J. and A. M. Ellison. 2006. Forecasting extinction risk with non-stationary matrix models. **Ecological Applications** 16: 51-61.
- Gotelli, N. J. and B. J. McGill. 2006. Null versus neutral models: what's the difference?. **Ecography** 29: 793-800.
- Morales, S. E., Mouser, P. J., Ward, N., Hudman, S. P., Gotelli, N. J., and T. A. Lewis. 2006. Comparison of bacterial composition and diversity in New England *Sphagnum* bogs using Terminal Restriction Fragment Length Polymorphism (T-RFLP). **Microbial Ecology** 52: 34-44.

2005

- Farrell-Gray, C. C. and N. J. Gotelli. 2005. Allometric exponents support a $\frac{3}{4}$ power scaling law. **Ecology** 86: 2083-2087.
- Wakefield, A. E., N. J. Gotelli, S. E. Wittman, and A. M. Ellison. 2005. Prey addition alters nutrient stoichiometry of the carnivorous plant *Sarracenia purpurea*. **Ecology** 86: 1737-1743.
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- Simberloff, D. and N. Gotelli. 1983. Refuge design and ecological theory: lessons for prairie and forest conservation. pp. 66-71 in: *Proceedings of the Eighth International Prairie Conference*. R. Brewer (ed). Western Michigan University.

AUTHORED BOOKS

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- Gotelli, N.J. and A.M. Ellison. 2012. **A Primer of Ecological Statistics**. 2nd. Edition. Sinauer Associates, Inc.

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BOOK REVIEWS, COMMENTARIES, & SCIENCE FICTION

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- Farnsworth, E., A. M. Ellison, and N. J. Gotelli. 2009. EvoSoap. **Nature** 458:938-938.
- Hochberg, M.E., J.M. Chase, N.J. Gotelli, A. Hastings, and S. Naeem. 2009. The tragedy of the reviewer commons. **Ecology Letters** 12: 2-4.
- Gotelli, N.J. 2008. Perspectives in biogeography: Hypothesis testing, curve fitting, and data mining in macroecology. **International Biogeography Society Newsletter** 6: 1-7.
- Hochberg, M.E. and N.J. Gotelli. 2005. An invasions special issue. **TREE** 20: 211.
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- Perrins, C.M., J.-D. Lebreton, and G.J.M. Hiron (eds). 1991. *Bird population studies: relevance to conservation and management*. **Ecology** 73: 1931-1932.
- Bakus, G. 1990. *Quantitative ecology and marine biology*. **Quarterly Review of Biology** 67: 382.

EXTERNAL FUNDING

- 2012-2015. National Science Foundation. Dimensions in Biodiversity: Collaborative Research: The climate cascade: functional and evolutionary consequences of climatic change on species, trait, and genetic diversity in a temperate ant community. (Total award: \$1,997,320. UVM component: \$687,559; UVM Biology Co-PIs: Sara Helms Cahan, Bryan Ballif)
- 2011-2016. National Science Foundation. Tipping points in ecological communities and proteomic diversity. NSF. \$350,000. Co-PIs Aaron Ellison, Bryan Ballif
- 2013-2017. National Science Foundation. Research Coordination Network: RCN: Synthesizing deep time and recent community ecology. \$400,000. Co-PIs: Sara Lyons, Kay Behrensmeyer, Smithsonian Institution.
- 2009-2011. National Science Foundation. 0909359. Dissertation Research: Evolutionary Responses of *Daphnia* to Climate Change in Vernal Ponds. \$10,000. Co-PI, Ted Hart.
- 2008-2011. Department of Energy. Impacts of elevated temperature on ant species, communities and ecological roles at two temperate forests in eastern North America. (UVM Component \$383,778). Co-PIs Rob Dunn, Nate Sanders, Aaron Ellison.
- 2006-2010. National Science Foundation. Moths, ants, and carnivorous plants: the spatial dimension of species interactions. \$645,000. UVM component: \$60,000. Co-PI Aaron Ellison.
- 2006-2008. National Center for Ecological Analysis and Synthesis (NCEAS). Working Group: Modeling Species Richness. Co-PIs Robert Colwell, Carsten Rahbek
- 2003-2006. National Science Foundation. Effects of nutrient stress on a co-evolved food web. \$350,000. UVM component: \$26,000. Co-PI, Aaron Ellison.
- 2003-2004. National Science Foundation. SGER: RUI: Collaborative. Mechanisms of community re-assembly after a catastrophic fire. \$100,000. UVM component: \$13,000. Co-PIs: Nate Sanders, Eric Jules, Aaron Ellison.
- 2000-2002. National Science Foundation (Education and Human Resources). Development of a multidisciplinary research culture in environmental

- science and engineering at the University of Vermont. \$300,000. Co-PI, Chris Allen.
- 2000-2002. National Science Foundation. Biocomplexity Incubation Activity: A synthetic approach to phytotelmata communities. \$92,034. Co-PIs: Tom Miller, Aaron Ellison.
- 2001-2004. National Science Foundation. EcoSim: Null models software for ecologists. \$282,000.
- 2000-2002. Environmental Protection Agency. The role of natural vs. anthropogenic factors in assessing ecological risk in agricultural watersheds. \$537,266. Co-PIs Mary Watzin, Jim Hoffmann.
- 1998-2003. National Science Foundation. Inquiline communities in changeable pitchers: do nutrients link community assembly to dynamic habitats? \$200,000. UVM component \$50,000. Co-PI Aaron Ellison.
- 1998-2000. National Science Foundation. EcoSim: Null models software for ecologists. \$232,000.
- 1997-1999. National Science Foundation. DEB-9615708. Behavioral strategies of sit-and-wait foragers: models of ant lion foraging. \$110,000. Co-PI, N. Buckley.
- 1997-1998. National Science Foundation. DEB-9615708. Dissertation Research: Geographic variation in life history traits of the ant lion, *Myrmeleon immaculatus*. \$8000. Co-PI, Amy Arnett.
- 1996-1997. National Science Foundation. BIR-9612109. EcoSim: A Proposal for Null Models Software. \$50,000.
1993. Fulbright Foundation. The Evolution of Altered Host Behavior. Research Award, University of Oxford, Great Britain.
- 1992-1995. National Science Foundation BSR-9118962. Antlion Zones: Consequences of High-Density Predator Aggregations. \$144,000.
- 1989-1991. National Science Foundation BSR-8817495. The Evolution of Altered Behaviors in Parasitized Animals: A Cockroach-Acanthocephalan Model. \$81,000. Co-Pi with J. Moore.

INVITED SEMINARS, PLENARY TALKS, SYMPOSIA, WORKSHOPS

- University of Vermont, Department of Geology, January 2017
- University of Vermont, Department of Plant Biology, Burlington, September 2016
- Oregon Institute of Marine Biology, Charleston, May 2016
- Auburn University, Auburn, April 2016
- Kent State University, Akron, March 2016
- NIMBIOS workshop, Pollen Reconstruction, Knoxville, November 2015
- University of Vermont, Rubenstein School Of Natural Resources, October 2015
- University of St. Andrews, Scotland, School of Biology, June 2015
- Biodiversity Workshop, German Center For Biodiversity Research (iDiv), Leipzig
June 2015
- Eilat, Coral Reef Fish Ecology Workshop, December 2014
- University of Montana, Missoula, October 2014
- Vermont Institute of Natural Science, Queechee, May 2014

Plenary Speaker, International Statistical Ecology Conference “The Well-Tempered Assemblage: Reducing Bias in the Estimation of Species Rank Abundance Distributions”, Montpellier, France, August 2014

Plenary Speaker, International Biogeography Society, “The Geography Of Species Associations”, Montreal, November 2013

National Ecological Observatory Network (NEON), Boulder, 2013

University of Colorado, Boulder, October 2013

Ceske Budjovice, Altitudinal Gradients Workshop August 2013

Paul Smith’s College, Brighton, April 2013

Harvard Forest, Petersham, March 2013

Instituto Nacional de Pesquisas da Amazônia (INPA), Manaus, Brazil, November 2012 (2 seminars)

University of St. Andrews, Scotland, School of Biology, May 2012

University of St. Andrews, Scotland, The Centre for Research into Ecological and Environmental Modelling (CREEM), May 2012

Utah State University, Ecology Center, April 2012 (2 seminars)

University of Massachusetts, Amherst, April 2011

Michigan State University, Lansing, April 2011

Louisiana State University, Baton Rouge, March 2011

Plenary Speaker, Biology Symposium,. Universidad Autonoma Metropolitana, Mexico City, February 2011

Royal Society, Kavli Institute, London, October 2010

Royal Society, “Biodiversity in a Changing World”, London, October 2010

Cornell University, Ithaca, March 2010

Boston University, Boston, February 2010

University of Central Florida, Orlando, January 2010

NIMBioS Binary Matrices Workshop, Knoxville, December 2009

Plenary Speaker, International Symposium on Quantitative Ecology & 2nd Taiwan-Japan Ecology Workshop, Taipei, October 2009

Universidad Rey Juan Carlos, Mostoles, June 2009

NIMBioS Binary Matrices Workshop, Knoxville, May 2009

University of Vermont, Burlington November 2008

Plenary Speaker, 18th Italian Ecological Congress, Parma, September 2008

Xishuangbanna Tropical Botanical Garden, May 2008

Chinese Academy of Sciences, Kunming, May 2008

University of Rhode Island, Providence, April 2008

Plenary Speaker, 9th Ecological Integration Symposium, Texas A & M, College Station, March 2008

Duke University, Durham, September 2007

Bowdoin College, Brunswick, September 2007

University of Arizona, Tucson, April 2007

Iowa State University, Ames, April 2007

Dartmouth College, Hanover, February 2007

Plenary Speaker: Macroecology Symposium, Institute For Climate Research, Potsdam, Germany, August 2006

ESA Symposium, Assembly Rules, Memphis, August 2006

NorthWoods Stewardship Center, East Charleston, May 2006
University of Tennessee, Knoxville, April 2006
University of Colorado, Boulder, March 2006
University of Nevada, Reno, December 2005
University of Uppsala, Sweden, April 2005
University of California, Davis, January 2005
Yale University, New Haven, January 2005
University of North Carolina, Chapel Hill, December 2004
McGill University, Montreal, November 2004
University of Montreal, Montreal, April 2004
University of Mississippi, Starkeville, April 2004
Yale University, New Haven, January 2004
NSF Workshop: Statistical methods for ecologists, Jackson, December 2003
Plenary Speaker, Venezuelan Ecological Society, Margarita, October 2003
University of Connecticut, Storrs, April 2003
Wake Forest University, January 2003
Williams College, MA, November 2002
University of Quebec, Trois Riveries, October 2002
NCEAS Working Group: Productivity-diversity relationships, Santa Barbara,
August 2002
Utah State University, Logan, November 2001
University of Washington, Seattle, May 2001
Cornell University, Ithaca, April 2001
Modeling Workshop, Oregon State University, Corvallis March 2001
Texas A & M, Arlington, March 2001
Biocomplexity Workshop, Tallahassee, January 2001
University of Delaware, December 2000
NCEAS Workshop, Biogeography, September 2000
ESA Symposium, Snowbird, Carnivorous Plants, August 2000
University of Toronto, Toronto, April 2000
University of California, Santa Barbara, January 2000
Catholica University, Santiago, Chile November 1999
Las Cruces Marine Laboratory, Las Cruces, Chile, November 1999
Plenary Speaker: Chilean Biological Society Symposium, Santiago, Chile
November 1999
University of Wisconsin, Madison, October 1999
Middlebury College, Middlebury, September 1999
University of Nebraska, Lincoln, April 1999
Complex Systems Conference, Nashua, NH, October 1998
Endangered Species Conference, McGill University, October 1998
University of Minnesota, Duluth, September 1998
INTECOL Symposium, Florence, Species Interactions, July 1998
McGill University, Montreal, March 1998
SUNY Stony Brook, New York, December 1997
Florida State University, Tallahassee, May 1997
University of California, Santa Cruz, April 1997

University of California, Davis, April 1997
University of New Hampshire, Portsmouth, March 1997
Tufts University, Medford, February 1997
University of Missouri, St. Louis, January 1997
Rocky Mountain Biological Laboratory, August 1996
Bodega Bay Marine Laboratory, June 1996
Mt. Holyoke College, Holyoke, April 1996
University of Maryland, Baltimore, March 1996
University of Southwestern Louisiana, Lafayette, November 1994
University of Connecticut, Storrs, October 1994
University of Oxford, May 1993
University of Oxford, April 1993
University of Oxford, March 1993
Imperial College, Silwood Park, April 1993
University of Vermont, Burlington, February 1993
NSF Symposium, Nested Subsets, Chicago Field Museum, April 1992
University of Vermont, Burlington, March 1992
Entomological Society of America, Baltimore, December 1992
University of Michigan, December 1991
University of Kansas, November 1991
Los Angeles County Museum of Natural History, May 1991
Scripps Institute of Oceanography, May 1991
New Mexico State University, April 1991
Entomological Society of America, New Orleans, December 1990
University of California, Berkeley, December 1990
ESA Symposium, Snowbird, Host-Parasite Ecology, August 1990
University of Arkansas, Fayetteville, September 1989
Harvard University, Cambridge, March 1989
Harbor Branch Oceanographic Institute, Ft. Pierce, February 1989
University of Oklahoma, Norman, March 1988, March 1991
Louisiana State University, Baton Rouge, February 1988
San Jose State University, San Jose, February 1988
Colorado State University, Ft. Collins, October 1987
Colorado State University, Ft. Collins, March 1987
Boston University, Boston, September 1986
Wood's Hole Oceanographic Institution, Woods Hole, June 1986
Harvard University, Cambridge, May 1986
The Nature Conservancy, Boston, January 1986
Northeastern University, Nahant, December 1985
Harvard University, Cambridge, November 1985
Hopkins Marine Station, June 1983
University of California, Berkeley, June 1983
Florida State University, Tallahassee, September 1982
University of California, Berkeley, December 1981

EDITORSHIIPS AND MAJOR COMMITTEES

Associate Editor-In-Chief, Ecology (2015 – present)
Board of Editors, Axios (2013 – present)
Board of Editors, Ecology (2001 – present)
Board of Editors, Myrmecological News (2010 – present)
Deputy Editor-In-Chief, Journal of Biogeography (2010 – 2015)
Board of Editors, Scientific Reports (2010 – 2012)
E.O. Wilson Award Committee Chair, ASN (2003-2005)
Local Hosting Committee ESA Montreal Meeting (2005)
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Board of Editors, Oikos (2004-2009)
Board of Editors, Journal of Biogeography (2004 – 2010)
Associate Editor, Ecology Letters (2002 – 2008)
Board of Editors, Biodiversity Letters (1992 - 1997)
Board of Editors, The American Naturalist (1994 - 1998)
Mercer Awards Committee Member, ESA (1997 - 1999)
Mercer Awards Committee Chair, ESA (1999 - 2001)

REVIEWING

Journal Reviewing:

Acta Oecologia, American Journal of Botany, The American Naturalist, Animal Behaviour, The Auk, Australian Journal of Ecology, Biodiversity Letters, Biotropica, Behavioral Ecology, Biological Conservation, Bioscience, Canadian Journal of Fisheries and Aquatic Sciences, Cladistics, Conservation Ecology, Copeia, Coral Reefs, Ecology, Ecology Letters, Diversity and Distributions, Ecological Applications, Ecological Entomology, Ecological Monographs, European Journal of Entomology, Evolution, Evolutionary Ecology (ad hoc editor), Hydrobiologia, Journal of Biogeography, Journal of Ecology, Journal of Insect Behavior, Journal of Parasitology, Journal of Theoretical Biology, Journal of Vegetation Science, Limnology & Oceanography, Marine Ecology Progress Series, Nature, Nature Communications, Oecologia, Oikos, Science, Southeastern Naturalist (ad hoc editor), Theoretical Population Biology, Trends in Ecology and Evolution (ad hoc editor), Vegetatio

Proposal Reviewing:

National Science Foundation (Ecology, Population Biology, Behavior Panels); National Geographic Society

NSF PANEL SERVICE

Ecoogy Panel (Spring 2014)
Ecology Panel (Fall 1995 - Spring 1998)
Integrated Challenges Panel (Spring 1999 - Spring 2001)
Committee Of Visitors, DEB review panel (Summer 2012)

UNIVERSITY, COLLEGE AND DEPARTMENTAL SERVICE

Graduate Affairs Committee 2012-present

OSP Hiring Committee 1998
Curriculum Committee 1992
Committee on Retention of Majors 1992
Search Committee, Evolutionary Ecologist 1993
Search Committee, Signal Transduction 1993, 1994
Search Committee, Community Ecologist (Botany Department) 1993
Faculty Volunteer, Undergraduate Orientation 1994
Co-Director, Environmental Studies Program 1995-Present
Advisory Council 1995
Director, Biology Department Graduate Program 1995-2000
Search Committee Chair, Evolutionary Biologist, 2003
TRI Spires Committee 2009

GRADUATE STUDENTS

Marc Albrecht, Ph.D., 1996. University of Oklahoma, Insect Community Ecology.
Current position: Tenured Professor, Department of Biology, University of
Nebraska at Kearney.

Amy Arnett, Ph.D., 1998. University of Vermont, Insect Life History Evolution.
Current position: Tenured Professor, Department of Biology, Unity
College, Maine.

Jerry Johnson, Ph.D., 1999. University of Vermont, Fish Life History Evolution.
Current position: Tenured Professor, Brigham Young University.

Declan McCabe, Ph.D., 1999. University of Vermont, Insect Community Ecology.
Current position: Tenured Professor, Department of Biology, Saint
Michael's College.

Amy Wakefield, MS., 2004. University of Vermont. Plant Ecology. Current
position: State Biologist, Vermont.

Stephen Hudman, Ph.D., 2005. University of Vermont. Current position: Tenured
Professor, Truman State College.

Kate Farrell, MS., 2006. University of Vermont, Theoretical Ecology. Current
position: High school teacher, Vermont.

Sarah Wittman, Ph.D., 2007. University of Vermont. Inquiline Ecology. Current
position: Post-doctoral Associate, Smithsonian Institution.

Ted Hart, Ph.D. 2011. University of Vermont. Climate Change, Aquatic Ecology.
Current position: Senior Scientist, Apple Computer.

Cristian Dambros, Ph.D. 2015.. University of Vermont. Tropical termite ecology,
community phylogenetics.

Amanda Northrop, Ph.D. (current). University of Vermont. Proteomics,
eutrophication of aquatic ecosystems.

Allyson Degrassi. Ph.D. (current). University of Vermont. Small mammal
population dynamics and community structure.

Andrew Nguyen. Ph.D. (current). University of Vermont. Molecular evolution of
heat shock proteins in ants.

Lauren Ash. Ph.D. (current). University of Vermont. Transmission dynamics of
Ranavirus in New England amphibians.

POST-DOCTORAL ASSOCIATES

Dr. Neil Buckley, 1997. Current Position: Tenured Professor, Department of Biology, SUNY Plattsburg

Dr. Shannon Pelini. 2009 – 2012. Current Position: Tenure –track Assistant Professor, Department of Biology, Bowling Green University.

Dr. Irma Nieto 2009 – 2010. Current Position: Tenure-track Assistant Professor, University of Oaxaca, Mexico.

Dr. John Stanton-Geddes 2013-2014. Current Position: Data analyst, Dealer.com.

INTERNATIONAL VISITORS

Luis Cayuela, Universidad Rey Juan Carlos, June-August 2013

Gleidyane Lopes, ESALQ/USP, Departamento de Entomologia e Acarologia, Sao Paulo, April – June 2013

Julia Oshima, Instituto de Biociências, UNESP, Campus Rio Claro, February-August 2013

Raul Valdes, Museo Nacional de Ciencias Naturales, June-August 2009

Fernando Maestre Gil, Universidad Rey Juan Carlos, June-August 2007

Giorgio Mancinelli, University of Lecce, December 2007

Michael Borregaard, University of Copenhagen, October-December 2007

GRADUATE STUDENT COMMITTEES

University of Oklahoma

Sherry Johnston, Zoology, M.S.

Matt Winston, Zoology, Ph.D.

Matt Craig, Zoology, Ph.D.

David Certain, Zoology, M.S.

Chris Taylor, Zoology, Ph.D.

Bruce Stewart, Zoology, Ph.D.

University of Vermont

Christine Staats, Zoology, M.S.

Jeffrey Myers, Field Naturalist, M.S.

David Kirtchel, Botany, Ph.D.

Amy Seidl, Biology, Ph.D.

Deirdre Joy, Biology, Ph.D.

Shannon Morrison, Botany, Ph.D.

Jake Riley, Natural Resources, M.S.

Mason Cline, Natural Resources, M.S.

Paul Simonin, Natural Resources, M.S.

Tracy Erwin, Wildlife, M.S.

Jim Boone, Entomology, M.S.

Amy Sheldon, Wildlife, M.S.

Becky Irwin, Biology, Ph.D.

Kristian Omland, Biology, M.S.

Laura Hill, Biology, Ph.D.

Other Institutions

Grace Suerat, University of Missouri, St. Louis Ph.D.

Pablo Inchausti, SUNY, Stony Brook, Ph.D.

Pedro Peres-Neto, University of Toronto, Toronto Ph.D.
Tom Romdal, University of Copenhagen, Copenhagen Ph.D.
Angelika Studeny, University of St. Andrews, St. Andrews, Ph.D.