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Education

1999 Ph.D. Department of Organismic and Evolutionary Biology, Harvard University
1997 M.A. Department of Organismic and Evolutionary Biology, Harvard University
1990 B.A. Hampshire College, Amherst, Massachusetts

Present Appointments

2017- Director of U-M Herbarium and U-M Museum of Zoology
(Associate Chair for Museum Collections)
2016- Professor and Curator, EEB Department, University of Michigan
2006- Research Associate, Smithsonian Tropical Research Institute

Previous Appointments

2015-2017 Director of U-M Herbarium (Associate Chair for Herbarium Collections)
2014-2017 Director of the Edwin S. George Reserve, University of Michigan
2011-2016 Associate Professor and Associate Curator, University of Michigan
2012-2013 Acting Director of the U-M Herbarium/ Associate Chair for Museum Collections
2005-2011 Assistant Professor and Assistant Curator, University of Michigan
2002-2005 Tupper Postdoctoral Fellow, Smithsonian Tropical Research Institute
2001-2002 Mellon Postdoctoral Fellow, Smithsonian Tropical Research Institute
1999-2001 Molecular Evolution Postdoctoral Fellow, Smithsonian Tropical Research Institute
1992-1999 Graduate student, Harvard University
1992 Botanical Intern, Biological Dynamics of Forest Fragments Project, Manaus, Brazil
1991 Field Biologist, U.S. Forest Service, Globe Forest District, Arizona

Publication List (*Student or post-doc working in the Dick lab) for citation history see
<https://scholar.google.com/citations?user=7iy44V4AAAAJ>

1. **Dick, C. W.**, R. T. Pennington (in press) History and Geography of Neotropical Tree Diversity *Annual Review of Ecology, Evolution, and Systematics*
2. Nazareno*, **C. W. Dick**, L.G. Lohmann (in review) A biogeographic barrier test reveals a strong genetic structure for a canopy-emergent Amazonian tree species. *Scientific Reports*
3. Allen, D., **C. W. Dick**, R. J. Burnham, I. Perfecto, J. Vandermeer (in review) The Michigan Big Woods research plot at the Edwin S. George Reserve, Pinckney, MI, USA. *University of Michigan Museum of Zoology Occasional Papers*
4. Vargas*, O. S., **C. W. Dick** (in press) Diversification history of Neotropical Lecythidaceae, an ecologically dominant tree family of Amazon rain forest. Chapter xx in *Neotropical Diversification*,

- edited by V. Rull and A. Carnaval.
5. Baker, P. A., S. C. Fritz, **C. W. Dick**, I. Prates, D. S. Battisti, O. M. Vargas*, G. P. Asner, R. E. Martin, A. Wheatley (in press) Beyond Refugia: New insights on Quaternary climate variation and the evolution of biotic diversity in tropical South America. Chapter xx in *Neotropical Diversification*, edited by V. Rull and A. Carnaval.
 6. Wei*, N., M. Detto, **C. W. Dick** (in revision) Seed dispersal drives spatial genetic patterns in tropical trees. *Molecular Ecology*
 7. Bemmels, J., Knowles, L. L., **C. W. Dick** (2019) Survival near ice sheet margins for some, but not all, North American trees *PNAS* 116 (17): 8431-8436.
 8. Vargas*, O., S. A. Smith, M. Heuertz, **C. W. Dick** (2019) Target sequence capture in the Brazil nut family (Lecythidaceae): marker selection and in silico capture from genome skimming data *Molecular Phylogenetics and Evolution* 135: 98-104
 9. Nazareno*, **C. W. Dick**, L.G. Lohmann (2018) Tangled Banks: A landscape genomic evaluation of Wallace's Riverine Barrier Hypothesis for three Amazon plant species. *Molecular Ecology* doi: 10.1111/mec.14948
 10. Allen, D., **C. W. Dick**, E. Strayer, I. Perfecto, J. Vandermeer (2018) Scale and strength of oak-mesophyte interactions in a transitional oak-hickory forest. *Canadian Journal of Forest Research* 48(11): 1366-1372.
 11. Bemmels*, J. B., **C. W. Dick** (2018) Genomic evidence of widespread southern distribution during the Last Glacial Maximum for two eastern North American hickory species. *Journal of Biogeography* 45:1739-1750
 12. Thomson*, A. M., O. M. Vargas*, **C. W. Dick** (2018) Complete plastome sequence from *Bertholletia excelsa* and 23 related species yield informative markers for Lecythidaceae. *Applications in Plant Sciences* doi: <https://doi.org/10.1101/192112>
 13. Lowe, A. J., M. F. Breed, H. Caron, N. Colpaert, **C. W. Dick**, B. Finegan, M. Gardner, G. Gheysen, R. Gribel, J. Berton C. Harris, A. Kremer, M. Lemes, R. Margis, C. M. Navarro, F. Salgueiro, H. M. Villalobos-Barrantes, S. Cavers (2018) Standardised genetic diversity-life history correlates for improved genetic resource management of Neotropical trees. *Diversity and Distributions* 24 (6) 730-741
 14. Bemmels*, J. B., S. J. Wright, N. C. Garwood, N. A. Queenborough, R. Valencia, **C. W. Dick** (2018) Filter-dispersal assembly of lowland Neotropical rainforests across the Andes. *Ecography* 41: 1763–1775. DOI: 10.1111/ecog.03473
 15. McMichael, C. H., K. W. Feeley, **C. W. Dick**, D. R. Piperno, M. B. Bush (2017) Comment: Persistent effects of pre-Columbian plant domestication on Amazonian forest composition *Science* Vol. 358, Issue 6361, eaa8347 DOI: 10.1126/science.aan8347
 16. Torroba-Balmori, P., K. B. Budde, K. Heer, S. C. González-Martínez, S. Olsson, C. Scotti-Saintagne, M. Casalis, B. Sonké, **C. W. Dick**, and M. Heuertz (2017) Altitudinal gradients, biogeographic history and microhabitat adaptation affect fine-scale spatial genetic structure in African and Neotropical populations of an ancient tropical tree species. *PlosOne* 12(8): e0182515. DOI 10.1371/journal.pone.0182515
 17. Nazareno*, **C. W. Dick**, L.G. Lohmann (2017) Wide but not impermeable: Testing Riverine Barrier Hypothesis for an Amazon plant species. *Molecular Ecology* 26: 3636–3648. DOI: 10.1111/mec.14142
 18. Nazareno*, A. G., J. B. Bemmels*, **C. W. Dick**, L.G. Lohmann (2017) Minimum sample sizes for population genomics: An empirical study from an Amazonian plant species. *Molecular Ecology Resources* 17: 1136–1147. doi:10.1111/1755-0998.12654
 19. Yang, A., **C. W. Dick**, X. Yao, H. Huang (2016) Impacts of biogeographic history and marginal population genetics on species range limits: a case study of *Liriodendron chinense* (Magnoliaceae) *Nature Scientific Reports* 6: article number 25632.
 20. **Dick, C. W.**, M. Penskar, A. A. Reznicek (2016). Burton V. Barnes as a forest botanist. *The Michigan Botanist* 54: 46-52.

21. **Dick, C. W** (2017) The University of Michigan Herbarium (1837-2017). Pp. 237-244 in K. Barndt and C. M. Sinopoli (eds.) *Object Lessons and the Formation of Knowledge: The University of Michigan Museums, Libraries and Collections 1817-2017*. University of Michigan Press
22. Baker, P. A., Fritz, S. C., Silva, C. G., Rigsby, C. A., Absy, M. L., Almeida, R. P., Caputo, M., Chiessi, C. M., Cruz, F. W., **Dick, C. W.**, Feakins, S. J., Figueiredo, J., Freeman, K. H., Hoorn, C., Jaramillo, C., Kern, A. K., Latrubesse, E. M., Ledru, M. P., Marzoli, A., Myrbo, A., Noren, A., Piller, W. E., Ramos, M. I. F., Ribas, C. C., Trnadade, R., West, A. J., Wahnfried, I., and Willard, D. A. (2015) Trans-Amazon Drilling Project (TADP): origins and evolution of the forests, climate, and hydrology of the South American tropics, *Sci. Dril.*, 20, 41-49, doi:10.5194/sd-20-41-2015.
23. *Thomson, A. M., **C. W. Dick**, A. L. Pascoini, S. Dayanandah (2015) Despite introgressive hybridization, North American birches (*Betula* spp.) maintain strong differentiation at nuclear microsatellite loci. *Tree Genetics & Genomes*: 11 (5), 1-12.
24. *Heer, K., E. K. V. Kalko, L. Albrecht, R. García-Villacorta, E. A. Herre, **C. W. Dick** (2015) Spatial scales of genetic structure in free-standing and strangler figs (*Ficus*, Moraceae) inhabiting Neotropical forests *PlosOne* 10(7): e0133581. DOI:10.1371/journal.pone.0133581
25. *Thomson, A. M., **C. W. Dick**, S. Dayanandah (2015) Similar phylogeographic structure among sympatric North American birches (*Betula* sp.) is better explained by introgression than by shared biogeographic history. *Journal of Biogeography* 42 (2), 339-350.
26. *Wei, N., **C. W. Dick** (2014) Polymorphic microsatellite markers for a wind-dispersed tropical tree species, *Triplaris cumingiana* (Polygonaceae) *Applications in Plant Sciences* 2(9): 1400051
27. *Wei, N., **C. W. Dick** (2014) Characterization of twenty-six microsatellite markers for the tropical pioneer tree species *Cecropia insignis* Liebm. (Urticaceae). *Conservation Genetics* 6: 987-989.
28. *Schroeder, J. W., H. T. *Tran, **C. W. Dick** (2014) Fine scale spatial genetic structure in *Pouteria reticulata* (Engl.) Eyma (Sapotaceae), a dioecious, vertebrate dispersed tropical rain forest tree species. *Global Ecology and Conservation* 1: 43-49.
29. *Wei, N., J. B. *Bemmels, **C. W. Dick** (2014) The effects of read length, quality and quantity on microsatellite discovery and primer development: from Illumina to PacBio. *Molecular Ecology Resources* 14: 953-65.
30. *Daïnou, K., G. Mahy, J. Duminil, **C. W. Dick**, J-L. Doucet, A. Donkpégan, M. Pluijgers, B. Sinsin, P. Lejeune, O. Hardy (2014) Diversification of the widespread African tree genus *Milicia* (Moraceae) at the interspecific and intraspecific levels *Heredity* 113: 74-85.
31. Baker, P. A., S. C. Fritz, **C. W. Dick**, A. J. Eckert, B. K. Horton, S. Manzoni, C. Ribas, C. Garziona, D. Battisti (2014) The emerging field of geogenomics: constraining geological problems with genetic data. *Earth Science Reviews* 135: 38-47.
32. *Yao, X., C. Li, **C. W. Dick** (2013) Exon Primed, Intron Crossing (EPIC) markers for evolutionary studies of *Ficus* and other taxa in the fig family (Moraceae) *Applications in Plant Sciences*
33. *Sedio, B. E., J. R. Paul, C. M. Taylor, **C. W. Dick** (2013) Fine-scale niche structure of tropical forests reflects a legacy of the Great American Biotic Interchange *Nature Communications* 4:2317 DOI: 10.1038/ncomms3317
34. *Peirson, J. A., **C. W. Dick**, A. A. Reznicek (2013) Post-glacial expansion and evolution of North American goldenrods (*Solidago* subsect. Humiles) *Journal of Biogeography* 40: 1887-1898.
35. *Wei, N., **C. W. Dick**, A. J. Lowe, M. G. Gardner (2013) Polymorphic microsatellite loci for *Virola sebifera* (Myristicaceae) derived from 454 pyrosequencing. *Applications in Plant Science* 1(4): 1200295
36. **Dick, C. W.**, S. Lewis, M. Maslin, E. Bermingham (2013) Neogene origins and implied warmth tolerance of Amazon tree species *Ecology and Evolution* 3 (1): 162-169.
37. Cavers S., **C. W. Dick** (2013) Special Issue: Phylogeography of Neotropical trees. *Journal of Biogeography* 40 (4): 615-617.
38. Jones, F. A., I. Cerón-Souza, B. D. Hardesty, **C. W. Dick** (2013) Genetic evidence of Quaternary demographic changes in four rainforest tree species sampled across the Isthmus of Panama. *Journal*

- of Biogeography* 40 (4): 720–731.
39. Scotti-Saintagne, C., **C. W. Dick**, H. Caron, G. G. Vendramin, V. Troisoux, P. Sire, M. Casalis, A. Buonamici, R. Valencia, M. R. Lemes, R. Gribel, I. Scotti (2013) Amazon divergence and cross-Andean dispersal of a widespread Neotropical tree species (*Jacaranda copaia*, Bignoniaceae) *Journal of Biogeography* 40 (4): 707–719.
 40. Scotti-Saintagne, C., **Dick, C. W.**, Caron, H., Guichoux, E., Vendramin, G. G., Buonamici, A., Duret, C., Sire, P., Valencia, R., Lemes, M. R., Gribel, R., Scotti, I. (2013) Phylogeography of a species complex of lowland rainforest trees (*Carapa*, Meliaceae) in the Neotropics. *Journal of Biogeography* 40 (4): 676–692.
 41. Rymer, P. D., **C. W. Dick**, G. G. Vendramin, A. Buonamici, D. Boshier (2013) Recent phylogeographic structure of a “weedy” widespread Neotropical tree species, *Cordia alliodora* (Boraginaceae). *Journal of Biogeography* 40 (4): 693–706.
 42. *Heer, K., C. Machado, A. G., Himler, E. A. Herre, E. K. V. Kalko, **C. W. Dick**, (2012) Anonymous and EST-based microsatellite DNA markers that transfer broadly across the fig tree genus (*Ficus* L. Moraceae). *American Journal of Botany (Primer Notes & Protocols in the Plant Sciences)* e330-e333.
 43. *Sedio, B. E., S. J. Wright, and **C. W. Dick** (2012) Trait evolution and the coexistence of a species swarm in the tropical forest understory. *Journal of Ecology* 100: 1183-1193.
 44. **Dick, C. W.** and C. O. Webb (2012) Plant DNA Barcodes, Taxonomic Management and Species Discovery in Tropical Forests. *Methods Mol Biol* 858:379-93.
 45. **Dick, C. W.**, and R. T. Pennington (2012) Molecular systematic perspectives on biome origins and dynamics. *New Phytologist* 193: 9–11.
 46. **Dick, C. W.** (2011) Review of *Tropical Rain Forest Ecology, Diversity, and Conservation*, by Jaboury Ghazoul and Douglas Sheil. *Quarterly Review of Biology* 86 (1): 45
 47. *Saeki, I., **C. W. Dick**, B.V. Barnes, N. Murakami (2011) Comparative phylogeography of red maple (*Acer rubrum* L.) and silver maple (*A. saccharinum* L.): impacts of habitat specialization, hybridization and glacial history. *Journal of Biogeography* 38: 992-1005.
 48. *Jha, S., **C. W. Dick** (2010) Native bees mediate long distance pollen dispersal in a shade coffee landscape mosaic. *Proceedings of the National Academy of Sciences USA* 107 (31) 13760-13764.
 49. *Kabat, S. M., **C. W. Dick**, M. D. Hunter (2010) Isolation and characterization of microsatellite loci in the common milkweed, *Asclepias syriaca* L. (Apocynaceae) *American Journal of Botany (Primer Notes & Protocols in the Plant Sciences)* e37-e38.
 50. **Dick, C. W.** (2010) Phylogeography and population structure of tropical trees. *Tropical Plant Biology* 3 (1): 1-3. (Introduction to a special issue edited by C. W. Dick)
 51. Hardesty, B. D., **C. W. Dick**, J. L. Hamrick, B. Degen, S. P. Hubbell, E. Bermingham (2010) Geographic influence on genetic structure in the widespread Neotropical tree, *Simarouba amara* (Simaroubaceae). *Tropical Plant Biology* 3 (1): 28-39.
 52. Lemes, M.R., **C. W. Dick**, C. Navarro, A. J. Lowe, S. Cavers, R. Gribel (2010) Chloroplast DNA microsatellites reveal contrasting phylogeographic structure in mahogany (*Swietenia macrophylla* King, Meliaceae) from Amazonia and Mesoamerica. *Tropical Plant Biology* 3 (1): 40-49.
 53. Pennington, R. T., **C. W. Dick** (2010) Diversification of the Amazonian flora and its relation to key geological and environmental events: a molecular perspective. Chapter 23 in C. Hoorn and F. P. Wesselingh (eds) *Amazonia, Landscape and Species Evolution*. Blackwell Publishing, Oxford, UK. Pp.373-385.
 54. Kenfack*, D., **C. W. Dick** (2009) Isolation and characterization of 14 microsatellite loci in *Tetragastris panamensis* (Burseraceae), a widespread forest canopy tree in the neotropics. *Conservation Genetics Resources* 1: 385-387.
 55. Stork, N. E., J. A. Coddington, R. K. Colwell, R. L. Chazdon, **C. W. Dick**, C. A. Peres, S. Sloan, K. Willis (2009) Vulnerability and resilience of tropical forest species to land-use change. *Conservation Biology* 12: 1438-1447.
 56. **Dick, C. W.** (2009) Book Review: *Living in a Dynamic Tropical Forest Landscape*, by N. E. Stork

- and S. M. Turton. *Quarterly Review of Biology* 84:292-293.
57. **Dick, C. W.** and W. J. Kress (2009) Dissecting tropical plant diversity with forest plots and a molecular toolkit. *BioScience* 59: 745-755.
 58. *Draheim, H., M. Cui* and **C. W. Dick** (2009) Characterization of 14 microsatellite DNA markers for the tropical forest tree *Virola surinamensis* (Rol.) Warb. (Myristicaceae). *Molecular Ecology Resources* 9: 1386-1388.
 59. *Jha, S., **C. W. Dick.** (2009) Isolation and characterization of nine microsatellite loci for the tropical understory tree *Miconia affinis* Wurdack (Melastomataceae). *Molecular Ecology Resources* 9: 344-345.
 60. *Jha, S., **C. W. Dick.** (2008) Shade coffee farm promote genetic diversity of native trees. *Current Biology* 18: 1126-1128.
 61. **Dick, C. W.**, M. Heuertz (2008) The complex biogeographic history of a widespread tropical tree species. *Evolution* 62: 2760-2774.
 62. Petit, R. J., F. S. Hu, **C. W. Dick** (2008) Forests of the past: a window to future changes. *Science* 320: 1450-1452.
 63. **Dick, C. W.** (2008) New interpretations of fine scale spatial genetic structure. *Molecular Ecology* 17: 1873-1874.
 64. **Dick, C. W.**, F. A. Jones, O. J. Hardy, R. Petit (2008) Spatial scales of seed and pollen-mediated gene flow in tropical forest trees. *Tropical Plant Biology* 1: 20-33.
 65. **Dick, C. W.**, E. Bermingham, M. Lemes, and R. Gribel (2007) Extreme long distance dispersal of the lowland rainforest tree *Ceiba pentandra* L. (Malvaceae) in Africa and the Neotropics. *Molecular Ecology* 16: 3039-3049.
 66. Ward, M., **C. W. Dick**, R. Gribel, A. J. Lowe (2005) To self or not to self... A review of outcrossing and pollen mediated gene flow in neotropical trees. *Heredity* 95: 246-254.
 67. Hardesty, B. D., **C. W. Dick**, A. Kremer, S. P. Hubbell, and E. Bermingham (2005) Fine scale spatial genetic structure of *Simarouba amara* Aubl. (Simaroubaceae), a dioecious, animal-dispersed Neotropical tree, on Barro Colorado Island, Panama. *Heredity* 95: 290-297.
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 70. Laurance, W. F., A. A. Oliveira, S. G. Laurance, R. Condit, **C. W. Dick**, A. Andrade, H. E. M. Nascimento, T. E. Lovejoy, and J. E. Ribeiro (2005). Altered tree communities in undisturbed Amazonian forests: A consequence of global change? *Biotropica* 37 (2): 160-162.
 71. **Dick, C. W.**, R. Condit and E. Bermingham (2005) Biogeographic history and the high β -diversity of rainforest trees in Panamá. Chapter 6 in *Rio Chagres: A multi-disciplinary profile of a tropical watershed* (R. Harmon, ed), pp. 259-268. New York, Springer Publishing Company.
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 73. Bermingham, E. and **C. W. Dick** (2005) The history and ecology of tropical rainforest communities. Chapter 2 in *Tropical Rain Forests: Past, Present and Future* (E. Bermingham, C. W. Dick and C. Moritz, eds.), pp. 7-15. Chicago, University of Chicago Press.
 74. Moritz, C., **C. W. Dick**, and E. Bermingham (2005) Processes, people and the prospects for tropical rainforests. Chapter 25 in *Tropical Rain Forests: Past, Present and Future* (E. Bermingham, C. W. Dick and C. Moritz, eds.), pp. 529-531. Chicago, University of Chicago Press.
 75. Pennington, R. T., **C. W. Dick** (2004) The role of immigrants in the assembly of the South American rainforest tree flora. *Philosophical Transactions of the Royal Society of London* 359:

- 1611-1622.
76. Leigh, E.G., P. Davidar, **C. Dick**, J. P. Puyravaud, J. Terborgh, H. T. Steege, S. J. Wright (2004) Why do some tropical forests have so many kinds of trees? *Biotropica* 36 (4): 447-473.
 77. **Dick, C. W.**, D. W. Roubik, K. Gruber and E. Bermingham (2004) Long distance gene flow and cross-Andean dispersal of lowland rainforest bees (Apidae: Euglossini) revealed by comparative mtDNA phylogeography. *Molecular Ecology* 13: 3775-3785.
 78. Laurance, W. F., A. A. Oliveira, S. G. Laurance, R. Condit, H. E. M. Nascimento, A. C. Sanchez-Thorin, T. E. Lovejoy, A. Andrade, S. D'Angelo, J. E. Ribeiro and **C. W. Dick** (2004) Pervasive alteration of tree communities in undisturbed Amazonian forests. *Nature* 428: 171-175.
 79. Austerlitz, F., **C. W. Dick**, C. Dutech, E. Klein, S. Oddou-Muratorio, P. E. Smouse, V. L. Sork (2004) Using genetic markers to estimate the pollen dispersal curve. *Molecular Ecology* 13: 937-954.
 80. **Dick, C.W.**, K. Abdul-Salim and E. Bermingham (2003) Molecular systematics reveals cryptic Tertiary diversification of a widespread tropical rainforest tree. *American Naturalist* 160 (12): 691-703.
 81. Novick, R. S., **C. W. Dick**, M. Lemes, C. Navarro, A. Caccone and E. Bermingham (2003) Genetic structure of Mesoamerican populations of big-leaf mahogany (*Swietenia macrophylla*) inferred by microsatellite analysis. *Molecular Ecology* 12: 2885-2893.
 82. **Dick, C. W.**, G. Etchelecu and F. Austerlitz (2003) Pollen dispersal of tropical trees (*Dinizia excelsa*: Fabaceae) by native insects and African honeybees in pristine and fragmented Amazonian rainforest. *Molecular Ecology* 12: 753-764.
 83. Morley, R. J. and **C. W. Dick** (2003) Missing fossils, molecular clocks and the origin of the Melastomataceae. *American Journal of Botany* 90: 1638-1645.
 84. **Dick, C. W.** (2002) Genetic relationships of plants in the CTFS network. *Inside CTFS*, summer 2002, Center for Tropical Forest Sciences, pp. 1-6.
 85. **Dick, C. W.** (2002) Effect of pollinator composition on the breeding structure of tropical timber trees. Pp. 140-152 in B. Degen, M. Loveless and A. Kremer (eds) *Modeling and Experimental Research on Genetic Processes in Tropical and Temperate Forests*, EMBRAPA, Belém.
 86. ***Dick, C. W.** (2001) Genetic rescue of remnant tropical trees by an alien pollinator. *Proceedings of the Royal Society of London B*. 268: 2391-2397. *Featured as Editor's Choice in *Science*
 87. Bermingham, E. and **Dick, C. W.** (2001) The *Inga*: Newcomer or museum antiquity? *Science* 293: 2214-2216.
 88. **Dick, C. W.** (2001) Habitat change, African honeybees and fecundity in the Amazonian tree *Dinizia excelsa* (Fabaceae). In *Lessons from Amazonia: The Ecology and Conservation of a Fragmented Tropical Forest* (eds. R. O. Bierregaard, C. Gascon, T. E. Lovejoy and R. Mesquita), pp. 146-157. New Haven, CT: Yale University Press.
 89. **Dick, C. W.** and M. Hamilton (1999) Microsatellites from the Amazonian tree *Dinizia excelsa* (Fabaceae). *Molecular Ecology* 8: 1765-66.
 90. Mindell, D., **Dick, C. W.** and R. Baker (1991) Phylogenetic relationships among microbats, megabats and primates. *Proceedings of the National Academy of Sciences USA* 88: 10322-10326.

Books

91. Bermingham, E., **C. W. Dick**, and C. Moritz, editors (2005) *Tropical Rain Forests: Past, Present and Future*, University of Chicago Press, Chicago.
92. Barnes, B. V., **C.W. Dick**, M. L. Gunn (2016) *Michigan Shrubs and Vines: A Guide to Species of the Great Lakes Region*, University of Michigan Press.

Theses

93. **Dick, C. W.** 1999. *Effect of Habitat Fragmentation on the Breeding Structure of Amazonian Rain*

Forest Trees. Harvard University, Cambridge, MA. (Principle Advisor P.S. Ashton, committee members R. C. Lewontin and S. R. Palumbi)

94. **Dick, CW**. 1990. *Phylogenetic relationships among Megabats, Microbats and Primates*. Hampshire College, Amherst, MA (Principle Advisor L. Miller)

Current and Pending Grants

- 2019-2022** NSF DEB Collaborative Research: Temperate radiations and tropical dominance: the diversification and evolution of the plant clade Ericales (UM PI (Lead) Stephen Smith; Co-PI C. Dick)
- 2013-20** NSF FESD Type I 1338694: The Dynamics of Mountains, Landscapes and Climate in the Distribution and Generation of Biodiversity of the Amazon/Andean Forest (\$4.43 million total grant, Paul Baker PI – Duke University, University of Michigan PI C. Dick, Co-PI Stephen Smith) \$672,000

Prior Grants, Fellowships and Awards

- 2012-18** NSF DEB 1240869: Dimensions US-BIOTA-Sao Paulo: *Assembly and evolution of the Amazonian biota and its environment: an integrated approach* (\$4 million total grant, UM PI C. Dick) \$264,865
- 2016-18** NASA Workshop Grant: Mapping Linkages between Geophysical and Biological Diversity Across Space and Time in the Andes, Amazon, and Chocó of Perú, Ecuador, and Colombia (Lead PI Sherylin Fritz)
- 2016-17** National Park Service Contract: Digitize Herbarium Specimens for Isle Royale National Park and Pictured Rocks National Lakeshore \$7,684.00
- 2015-18** NSF DISSERTATION RESEARCH: A hypothesis test for cryptic northern refugia in bitternut and shagbark hickory, with implications for migration and adaptation (PhD student Jordan Bemmels) \$18,250
- 2014-17** Brazilian Visiting Scholar Fellowship (PVE), supported by FAPES and CAPES (Ciencias Sem Fronteiras Program). Research support and hosting at the University of São Paulo (host, Lúcia Lohmann) R\$90,400
- 2014-15** Hanes Foundation Award in support of new book development (*Michigan Shrubs and Vines*, with B. Barnes and M. Gunn) \$14,000
- 2013-17** NSF EF 1303779: Collaborative Research: Digitization TCN: The Macroalgal Herbarium Consortium: Accessing 150 Years of Specimen Data to Understand Changes in the Marine/Aquatic Environment (UM PI) \$165,604
- 2015** NSF CONFERENCE: The Multiple Dimensions of Biodiversity Science; Sao Paulo, Brazil, June 26-30, 2015; Lead PI Ana Carnaval, Co-PI C. Dick \$48,588
- 2013-15** School of Literature, Science and Arts, Associate Professor Research Award Supported by the Margaret and Herman Sokol Faculty Fund \$82,000
- 2013- 15** CTFS-STRI research grant: Ecological and genetic consequences of effect seed dispersal in tropical trees (supporting PhD Student Na, Wei) \$ 9,375
- 2012** NESCENT Catalysis meeting on “GeoGenomics” with P. Baker (PI), S. Fritz (Co-PI), C. W. Dick (Co-PI).
- 2012** Emerging Frontiers in Tropical Science “GeoGenomics” Working Group Proposal Organization for Tropical Studies (OTS). Led by Paul Baker (PI, Duke University), Sherilyn Fritz (Co-PI University of Nebraska) and C. W. Dick (Co-PI)
- 2011** University of Michigan (joint OVPR, LSA, EEB) award for project \$30,000
Development of nuclear intron genetic markers for tropical tree species
- 2007-11** NSF award DEB 0640379 (PI C. Dick) *Comparative phylogeography of 12*

	<i>widespread tropical rainforest tree species</i>	\$484,000
	2010 REU supplement DEB 0822657 for field work in Panama	\$7,000
	2008 REU supplement DEB 0822657 for field work in Panama	\$6,000
	2007 REU supplement DEB 0724690 for field work in Panama	\$6,000
2010	NSF Doctoral Dissertation Improvement Grant (PI C. Dick; Co-PI B. Sedio) <i>Plant-herbivore community assembly and the problem of specificity: Do insect herbivores specialize among sympatric, congeneric plants in tropical forests?</i>	\$15,000
2010	Smithsonian Scholarly Studies Grant <i>Host specificity and control of gene flow in the fig- wasp pollination mutualism</i> (PI, A. Herre; Co-PI C. Dick and C. Machado)	\$37,960
2009	NSF Doctoral Dissertation Improvement Grant (PI C. Dick; Co-PI S. Jha) <i>Miconia affinis in a tropical forest and coffee landscape mosaic: the population genetics of a buzz-pollinated understory tree</i>	\$14,920
2008-15	CTFS-STRI research grant (PI C. Dick; Co-PI R. Valencia): <i>Well dispersed or well disguised? A curatorial initiative focused on 85 tree species shared between BCI and Yasuni</i>	\$15,000
2008	UM Faculty IT Grant (PI C. Dick) <i>Web-based interactive key to the woody plants of Michigan</i>	\$4,500
2008-10	NSF Doctoral Dissertation Improvement Grant (PI C. Dick; Co-PI J. Peirson) <i>Testing phylogeographic hypotheses of Holocene plant migration and endemism in the Solidago simplex species complex</i>	\$11,920
2004-08	SEEDSOURCE consortium (www.seed-source.net) (Subcontract to C. Dick) <i>Collaborative project funded by the European Commission under FP6. Aimed to establish the evolutionary basis and geographic distribution of genetic variation in a range of important Neotropical tree species</i>	€1.9 million
2005	International Plant Genetics Research Institute (IPGRI) Grant	\$5,000
2003	Center for Tropical Forest Sciences Research Grant	\$6,500
2002-05	Tupper Postdoctoral Fellowship (3 years), Smithsonian Institution	\$150,000
2001	International Plant Genetics Research Institute (IPGRI) Grant	\$17,200
2000	Mellon Foundation Award (Co-PIs C. Dick and A. Kremer)	\$100,800
2000	International Plant Genetics Research Institute (IPGRI) Grant	\$5,000
2000	Research Opportunity Award, Smithsonian Institution	\$1,800
1999	OTS/Mellon Fellowship for Field work in Costa Rica	\$2,800
1999-01	Molecular Evolution Postdoctoral Fellowship, Smithsonian Institution	\$66,000
1998	Department of OEB, Harvard University Student Research Grant)	\$2,500
1997	Deland Award, Arnold Arboretum	\$5,000
1994	Sigma Xi Grants-in-Aid of Research	\$700
1994	National Science Foundation Doctoral Fellowship Travel Grant	\$1000
1994	Committee on Latin American Studies, Harvard University	\$2200
1993	Department of OEB, Harvard University Student Research Grant	\$2500
1992-95	National Science Foundation Pre-Doctoral Fellowship	\$80,000
1991	Bowman Travel Award, Hampshire College	\$800
1990	Hampshire College Senior Thesis Award	\$1000
1988	Explorer's Club Youth of the Year Award	
1987	Explorer's Club Expedition Grant	\$1000
1985	Johnson Academic Scholarship, Hampshire College	\$10,000

Contributions to Biological Infrastructure

Over 80,000 macroalgal specimens from MICH were photographed, transcribed, and georeferenced as part of the NSF funded Macroalgal TCN. These digitized specimens and metadata can be accessed at macroalgae.org

As Director of the E. S. George Reserve, I oversaw the incorporation of a 23-ha inventory plot of oak-hickory forest into the Smithsonian's ForestGEO network. Over 48,000 woody plants were inventoried as part of this ongoing effort to understand forest dynamics and response to climate change.

Teaching experience

At the University of Michigan, I have taught: (1) **Molecular Ecology** (EEB 412; taught in 2006, 2008, 2011, 2012, 2013), (2) **Woody Plants** (EEB-SNRE-PitE 436; taught 2006, 2007, 2008, 2009, 2010, 2012, 2014, 2015), (3) **First Year Seminar on Amazon Rain Forests** (2013), and (4) **Field Ecology** (NRE556/EEB477 to be taught 2015, 2016). In fall 2018 I taught a new undergraduate course titled **Unlocking the Museums** (Bio 201), which gave students a hands-on introduction to specimen-based research in the biological museums. For several years at Michigan I organized weekly seminar on Tropical Biology (TROPBIO; EEB 800). I was a graduate teaching fellow at Harvard for *Organismic and Evolutionary Biology* (1992) and *Botany* (1993), *Evolution* (1998), and *Tropical Ecology* (including the field course to Venezuela; 1992 and 1994). I led nine expeditions along the Amazon River and Rio Negro as a biological guide from 1994-1998.

Mentoring of graduate students at University of Michigan

Principal or co-principal advisor

Priscila Souza (PhD, INPA, 2016-present, coadvised with Alberto Vicentini)

Stephanie Alcalá (MSc 2016-2018)

Drew Larson (PhD fall 2016-present, coadvised with Stephen Smith)

Tamara Milton (PhD fall 2016-present, coadvised with Robyn Burnham)

Caroline Fukuchi-Parins (PhD fall 2016-2019, coadvised with Phil Meyers)

Jordan Bemmels (NSF Doctoral Fellow; 2018 PhD)

Euder Martins (University of São Paulo, coadvised with Jose Rubens Pirani)

Na Wei (2015 PhD; Dimensions of Biodiversity Post-doc at University of Pittsburgh)

Brian Sedio (2013 PhD; Assistant Professor at UT Austin starting in 2019)

Shalene Jha (2009 PhD; coadvised with J. Vandermeer; Associate Professor at UT Austin)

Jess Peirson (2010 PhD; coadvised with A. Reznicek)

Roosevelt Garcia (PhD advisor 2006-2008; 2016 PhD at University of Edinburgh).

Committee member

Hector Figueroa (PhD, ongoing)

Lijun Zhao (PhD, ongoing)

Rachel Wadleigh (PhD, ongoing)

Paula Teichholtz (PhD, ongoing)

Amanda Meier (PhD, 2018 PhD)

Daniel Buonaiuto (2016 MSc)

Allison Gould (PhD, 2016 PhD)

N. Omar Bonilla (2014 MSc)

Cori Richards-Zawacki (2007 PhD)

David Allen (2011 PhD)

Zacharias Miller (2009 PhD)

Celia Churchill (2012 PhD)

David Marvin (2013 PhD)

Liz Wason (2012 PhD)
Ya Yang (2011 PhD)
Sandra Yap (2010 PhD)
Diego Alvarado-Serrana (2013 PhD)
Katrin Heer (University of Ulm, PhD, external member/host 2011-2013)
Ashley Thomson (Concordia University, Montreal, Canada; PhD collaborator/host)
Susan Kabat (2010 MSc)

Post-doctoral researchers

Caroline Fukuchi-Parins (2019) NSF sponsored, co-supervised with Stephen Smith
Hannah Marx (2018-2020), NSF sponsored, co-supervised with Stephen Smith
Diego Alvarado (2018-2020) NSF sponsored, co-supervised with Stephen Smith
Greg Stull (2017-2019) NSF Post-doc, co-supervised with Stephen Smith
Oscar M. Vargas (2016-2018) Post-doc under Dimensions of Biodiversity Grant
James Pease (2015-2016) co-supervised with Stephen Smith; Assistant Prof at Wake Forest University
Alison Gonçalves Nazareno (2015) visiting scholar/CAPES
Ashley Thomson (2014-2015) funded by LSA/EEB
David Kenfack (2008-2009) NSF funded post-doctoral fellow
Kasso Dainou (6 months, 2012) post-doctoral fellowship with funding from Belgium
Hoa Tran (2008-2009) Visiting Scholar from the Institute of Agricultural Genetics, Hanoi, Vietnam
Xiao-Hong Yao (2011) Visiting Professor Wuhan Botanical Garden, Chinese Academy of Sciences

Peer Review Activities (50+ journals)

American Journal of Botany, Agricultural and Forest Entomology, American Naturalist, Annals of Botany, Biological Conservation, Biological Journal of the Linnaean Society, Biological Reviews, BioScience, Biotropica, BMC Evolutionary Biology, Botanical Journal of the Linnaean Society, Brittonia, Canadian Journal of Botany, Comptes Rendus Geoscience, Condollea, Conservation Genetics, Current Biology, Diversity, Ecological Research, Ecology Letters, Edinburgh Journal of Botany, Evolution, Forest Ecology and Management, Frontiers in Genetics, Frontiers in Ecology and the Environment, Genetics and Molecular Biology, Global Ecology and Biogeography, Heredity, International Journal of Plant Sciences, Journal of Biogeography, Journal of Ecology, Journal of Heredity, Journal of Plant Ecology, Journal of Tropical Ecology, Methods in Ecology and Evolution, Molecular Ecology, Molecular Phylogenetics and Evolution, New Phytologist, Oecologia, Perspectives in Plant Ecology, Evolution and Systematics, Philosophical Transactions of the Royal Society, PloS ONE, Proceedings of the National Academy of Sciences - USA, Proceedings of the Royal Society, Royal Society Open Science, Science, Silvae Genetica, Symbiosis, Systematic Biology, Tree Genetics and Genomes, Trends in Ecology and Evolution, Tropical Plant Biology, World Book Encyclopedia, National Geographic Society, National Science Foundation, Netherlands Science Foundation

Service Activities

Current:

Board Member, Specify Collections Consortium (2019 onward)
Executive Committee, Museum of Anthropological Archeology, University of Michigan
Co-Chair, Faculty Science Advisory Committee, U-M Museum of Natural History
Executive Committee, University of Michigan Biological Station
College of LSA Museum Collections Steering Committee

External

Center for Tropical Forest Sciences Proposal Review Panel 2016
Organization for Tropical Studies (OTS) Scientific Committee Member 2016-2018
ATBC Conservation Committee Chair, 2013-14
Associate Editor of *Tropical Plant Biology* (Springer) 2008-2015
Subject Editor of *Biotropica* (Blackwell-Wiley) 2010-2017
Councilor, Association for Tropical Biology and Conservation (ATBC) 2010-2012
Academic Committee, ATBC annual meeting in Bonito, Brazil, 2012
Conservation Committee, ATBC, 2012-2014
National Science Foundation Panel (2014)
National Science Foundation Panel (2013)
National Science Foundation Panel (2007)

Program in the Environment (PitE)

Ad Hoc Faculty Search, bird biologist (2018)

School of Natural Resources and Environment (SNRE)

Faculty search committee, forest ecologist (2006-2007)

Rackham Graduate School

Museum Studies Steering Committee (2015-2018)

School of Literature, Science and Arts (LSA)

Curriculum Committee (2012-2015)
Race and Ethnicity Review Committee (2014-2015)
Collections Management Steering Committee (2012-2013, 2016 onward)
LSA Undergraduate Teaching Awards Committee (2014)
Executive Committee, University of Michigan Biological Station (2014 onward)
Executive Committee, U-M Museum of Anthropological Archaeology (2016 onward)

Department of Ecology and Evolutionary Biology

Director U-M Herbarium and U-M Museum of Zoology (2017- present)
Director ES George Reserve (2014 onward)
Director University Herbarium (2015-2017)
Faculty search committee, community ecologist (2016)
Faculty search committee, bird or fish biologist (2014)
Graduate Affairs Committee (2014-2015)
Undergraduate Affairs Committee (2013-2014)
Nominating Committee (2013)
Associate Chair for Collections (2012-2013)
Executive Committee (2012-2014)
New Building Planning Committee (2010)
Preliminary Exams Evaluation committee (2009-2011)
Chair, Department Seminar committee (2007-2009)
Graduate affairs committee (2005)
Diversity committee (2006)
Early Career Scientist Symposium committee member (2007, 2009) and chair (2012)
Faculty search committee, fungal biologist (2007-2008)

Talks and Meetings

2018 Invited Plenary Speaker, Colombian Botanical Congress (August 2018)
2018 Department Seminar, Morton Arboretum, Chicago, IL
2018 Invited speaker, Symposium, Diversification Processes in Dynamic Landscapes, Ann Arbor
2018 Invited Seminar Speaker, Duke University, Durham NC
2017 Invited Seminar Speaker, Oregon State University, Corvallis, OR
2017 Botany Department Seminar, Universidad de São Paulo (USP), SP, Brazil
2017 PDBFF Seminar, Instituto Nacional de Pesquisas da Amazõnia, Manaus, Brazil
2017 NASA Biodiversity and Ecological Forecasting Team Meeting, Washington D. C.
2017 Keynote Speaker, 34th Midcontinent Paleobotanical Colloquium, Ann Arbor
2017 NASA Andean-Amazon GeoBiology Workshop
2016 Symposium talk, Association for Tropical Biology and Conservation, Montpellier, France
2015 Keynote Speaker, St. Louis Ecology, Evolution, Conservation Retreat, St. Louis Zoo
2015 Invited Symposium Speaker, SSE Meeting, Guarujá, Brazil
2015 Invited Research Seminar, Field Museum, University of Chicago
2015 Invited Speaker, Intercontinental Scientific Drilling Program (ICDP), Manaus, Brazil
2015 Smithsonian/SIGEO workshop on temperate zone forest inventory plots, Washington, DC
2015 Smithsonian Tropical Research Institute, BCI talk
2015 Departmental Seminar, Cornell University, Plant Sciences, Ithaca, NY
2015 Departmental Seminar, Univ. Texas at Austin, Ecology and Evolutionary Biology
2014 American Geophysical Union, oral presentation, San Francisco, CA.
2014 Botanical Society of America, oral session, Boise, Idaho
2014 Methods in Biogeography, Invited Symposium Speaker, INPA, Manaus, Brazil
2013 Student-Invited Seminar Speaker, Kellogg Biological Station, Michigan State University
2013 Invited Departmental Seminar Speaker, EEB Department, Brown University
2013 ATBC meeting, Costa Rica, symposium organizer and invited speaker (Tropical tree evolution)
2013 Invited Seminar, Rancho Santa Ana Botanical Garden, Claremont Graduate Program, California
2013 OTS Emerging Frontiers in Tropical Biology, conference organizer and participant, Costa Rica
2013 FAPESP Symposium speaker and participant, Sao Paulo, Brazil
2013 Departmental Seminar, Univ. of Wisconsin/Madison, Department of Botany
2013 Departmental Seminar, Univ. of Maryland, Plant Sciences and Landscape Architecture
2012 Center for Tropical Forest Sciences Genomics Workshop, Smithsonian Institution
2012 Co-Organizer and participant in Nescent “Geogenomics” Catalysis meeting, Durham, NC
2012 Poster, Society for the Study of Evolution, Ottawa, Canada
2012 Talk and Symposium organizer, ATBC meeting, Bonito, Brazil
2012 Departmental Seminar, Ecology and Evolutionary Biology, University of Michigan
2012 Department of Ecology, Evolution and Behavior, UCLA
2012 Departmental Seminar, Plant Biology, University of Minnesota
2011 Invited talk, Colombian Botanical Congress, Cali, Colombia
2011 Invited talk, Chinese Academy of Sciences, Beijing, China
2011 Tupper Seminar, Smithsonian Tropical Research Institute, Panama City, Panama
2011 Plenary talk, British Ecological Society meeting, Cambridge University, UK
2010 Invited talk, Phylogeny and Biodiversity Symposium, ATBC, Bali, Indonesia
2010 Invited participant, Conservation and Restoration Genetics Workshop, University of Adelaide
2009 Plenary speaker, International Symposium on DNA Barcoding, FAPESP, São Paulo, Brazil
2009 Plant Biology Departmental Seminar, Michigan State University
2009 Plant Biology Departmental Seminar, University of Georgia
2009 Invited talk, symposium organizer, ATBC meeting, Marburg, Germany
2008 Plenary talk, ATBC meeting, Suriname, South America
2008 Biology Department Seminar, Bowling Green State University, OH
2008 Biology Department Seminar, Eastern Michigan University, MI
2007 Invited plenary talk, 9th International Pollination Symposium, Ames, Iowa.

- 2007 Invited lecture, Association for Tropical Biology and Conservation, Morelias, Mexico.
- 2007 Invited Tupper Seminar, Smithsonian Tropical Research Institute, Panama City, Panama
- 2007 Association for the Taxonomic Study of the Flora of Tropical Africa (AETFAT), Cameroon
- 2006 Invited lecture, Michigan State University, Kellogg Biological Station, Lansing, MI.
- 2006 Two invited lectures, Endowed Bennett lecture series, UM Biological Station, Pelham, MI.
- 2006 Invited lecture, Museu Noel Koempf, Santa Cruz, Bolivia.
- 2006 Invited lecture, Center for Tropical Forest Sciences, STRI, Panama City.
- 2005 Lecture; Association for Tropical Biology and Conservation. Uberlandia, Brazil.
- 2005 Invited lecture. Center for Tropical Forest Sciences, 25th year symposium. Panama City, Panama.
- 2005 Invited lecture (Spanish) Reunión del Red de Herbarios de Mesoamerica y el Caribe. Panama.
- 2004 Invited lecture (Spanish) Colombian National Botanical Congress, Popayán, Colombia.
- 2004 Lecture. Association for Tropical Biology and Conservation, Miami, Florida.
- 2004 Poster, Society for the Study of Evolution, Ft. Collins, Colorado.
- 2003 Invited lecture, Association for Tropical Biology and Conservation, Aberdeen, Scotland.
- 2003 Invited lecture. Symposium: “Rio Chagres: profile of a tropical watershed”, Panama.
- 2002 Two invited lectures, Association for Tropical Biology and Conservation, Panama City, Panama.
- 2001 Invited keynote address (Spanish), Congreso Nacional de Ciencia y Tecnología, Panama City.
- 2001 Lecture. Society for the Study of Evolution, Knoxville, Tennessee.
- 2000 Invited lecture. “Genetic processes in tropical and temperate forests” INRA, French Guiana.
- 1999 Invited symposium speaker. International Botanical Congress, St. Louis, Missouri.
- 1999 Invited lecture (Portuguese) “Seminario da Amazônia”, INPA campus, Manaus, Brazil.
- 1998 Invited symposium speaker. Ecological Society of America, Baltimore, Maryland.

Coordination Activities

- 2015 Co-organizer (with Ana Carnaval) of NSF funded symposium “Multiple Dimensions of Biological Diversity” for SSE (Evolution) meeting in Guarujá, Brazil.
- 2013 Lead organizer of Symposium on Geogenomics (with P. Baker and S. Fritz) ATBC meeting
- 2012 Co-organizer of OTS Emerging Frontiers in Tropical Science “GeoGenomics” Working Group Proposal Organization for Tropical Studies with Paul Baker (PI, Duke University), Sherilyn Fritz (Co-PI University of Nebraska)
- 2012 Co-organizer of NESCENT Catalysis meeting on “GeoGenomics with P. Baker (PI) and Sherlyl Fritz (Co-PI) Durham, NC.
- 2012 Co-organizer of symposium on “New Technologies for Biological Inventory in the Amazon Basin” (with Alberto Vicentini) for Association for Tropical Biology and Conservation (ATBC), Bonito, Brazil.
- 2012 Invited instructor for DIVERSITAS (United Nations) capacitation workshop, “Evolutionary Approaches to the study of Biodiversity” at Universidade de Mato Grosso, Brazil.
- 2012 Chair, University of Michigan’s Early Career Scientist Symposium, “Biodiversity Informatics”
- 2011 Co-editor of special issue of *Journal of Biogeography* “Phylogeography of Neotropical Trees” with S. Cavers
- 2009 Editor of special issue of *Tropical Plant Biology* (Springer) “Phylogeography and Population Structure of Tropical Trees” (published in 2010)
- 2009 Co-organizer of symposium “Phylogeography and Population Structure” for Association for Tropical Biology and Conservation meeting, with Birgit Ziegenhagen, Marburg, Germany
- 2009 Organizing committee member of University of Michigan’s Early Career Scientist Symposium, “Using Phylogenies in Ecology”
- 2007 Organizing committee member of University of Michigan’s Young Scientist Symposium, theme “Evolutionary Ecology”
- 2004 Co-Chair of symposium of the Royal Society of London “Plant phylogeny and the origin of major biomes”, with R. T. Pennington

- 2003** Co-organizer of symposium “Why are there so many kinds of tropical trees? A historical perspective”, with Elizabeth Stacy; ATBC meeting, Aberdeen Scotland,
- 1998** Co-organizer of symposium Ecological Society of America, Baltimore, “Population genetics of tropical trees”, with Matthew Hamilton.

Languages

Portuguese (advanced), Spanish (advanced) and French (basic)