

Christopher William Dick

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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

Appointments

2016- Professor and Curator, EEB and Herbarium, University of Michigan
2006- Research Associate, Smithsonian Tropical Research Institute
2017- Director of UM Herbarium and Museum of Zoology (beginning 7/01/2017)
2015-2017 Associate Chair for Herbarium Collections (Herbarium Director) (ending 7/01/2017)
2014-2017 Director of the Edwin S. George Reserve, University of Michigan (ending 7/01/2017)
2011-2016 Associate Professor and Associate Curator, EEB and Herbarium, University of Michigan
2012-2013 Acting Director of the University of Michigan Herbarium
2012-2013 Associate Chair for Museum Collections, EEB Department
2005-2011 Assistant Professor, Dept. of Ecology and Evolutionary Biology, University of Michigan
2005-2011 Assistant Curator, University of Michigan Herbarium
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

Grants, Fellowships and Awards

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 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
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
2012-17	NSF DEB 1240869: Dimensions US-BIOTA-Sao Paulo: <i>Assembly and evolution of the Amazonian biota and its environment: an integrated approach</i> (\$4 million total grant, UM PI C. Dick)	\$264,865
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 <i>Development of nuclear intron genetic markers for tropical tree species</i>	\$30,000
2007-11	NSF award DEB 0640379 (PI C. Dick) <i>Comparative phylogeography of 12 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

Publication List (*Student or post-doc working in the Dick lab) for citation history see <https://scholar.google.com/citations?user=7iy44V4AAAAAJ>

1. Allen, D., **C. W. Dick**, E. Strayer, I. Perfecto, J. Vandermeer (in revision) Mesophication of a transitional oak–hickory forest in southeast Michigan.
2. Wei, N., M. Detto, **C. W. Dick** (in revision) Seed dispersal drives spatial genetic patterns in tropical trees.
3. Torroba-Balmori, P., K. Budde, K. Heer, S. González-Martínez, C. Scotti-Saintagne, M. Casalis, B. Sonké, **C. W. Dick**, and M. Heuertz (in review) From Africa to America: fine-scale spatial genetic structure in an ancient tropical tree species.
4. Nazareno*, C. W. Dick, L.G. Lohmann (revised version in review) Wide but not impermeable: Testing Riverine Barrier Hypothesis for an Amazon plant species. *Molecular Ecology*
5. 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 (in review) Ecology shapes genetic diversity in neotropical trees.
6. 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*
7. Yang, A., **C. W. Dick**, X. Yao, H. Huang (2016) The role of biogeographic history and range margin genetics in determining species range limits: a case study in *Liriodendron chinense* (Magnoliaceae) *Nature Scientific Reports* 6: article number 25632.
8. **Dick, C. W.**, M. Penskar, A. A. Reznicek (2016). Burton V. Barnes as a forest botanist. *The Michigan Botanist* 54: 46-52.
9. **Dick, C. W** (in press) The University of Michigan Herbarium (1837-2017). Chapter 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
10. 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.
11. *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.
12. *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
 13. *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.
 14. *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
 15. *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.
 16. *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.
 17. *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.
 18. *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.
 19. 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.
 20. *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*
 21. *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
 22. *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.
 23. *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
 24. **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.
 25. Cavers S., **C. W. Dick** (2013) Special Issue: Phylogeography of Neotropical trees. *Journal of Biogeography* 40 (4): 615–617.
 26. 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.
 27. Scotti-Saintagne, C., **C. W. Dick**, H. Caron, G. G. Vendramin, V. Troispoux, 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.
 28. 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.
 29. 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.
30. *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.
 31. *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.
 32. **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.
 33. **Dick, C. W.**, and R. T. Pennington (2012) Molecular systematic perspectives on biome origins and dynamics. *New Phytologist* 193: 9–11.
 34. **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
 35. *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.
 36. *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.
 37. *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.
 38. **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)
 39. 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.
 40. 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.
 41. 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.
 42. *Kenfack, D., **C. W. Dick** (2009) Isolation and characterization of 14 microsatellite loci in *Tetragastris panamensis* (Bursaceae), a widespread forest canopy tree in the neotropics. *Conservation Genetics Resources* 1: 385-387.
 43. 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.
 44. **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.
 45. **Dick, C. W.** and W. J. Kress (2009) Dissecting tropical plant diversity with forest plots and a molecular toolkit. *BioScience* 59: 745-755.
 46. *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.
 47. *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.
 48. *Jha, S., **C. W. Dick**. (2008) Shade coffee farm promote genetic diversity of native trees. *Current Biology* 18: 1126-1128.

49. **Dick, C. W.**, M. Heuertz (2008) The complex biogeographic history of a widespread tropical tree species. *Evolution* 62: 2760-2774.
50. Petit, R. J., F. S. Hu, **C. W. Dick** (2008) Forests of the past: a window to future changes. *Science* 320: 1450-1452.
51. **Dick, C. W.** (2008) New interpretations of fine scale spatial genetic structure. *Molecular Ecology* 17: 1873-1874.
52. **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.
53. **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.
54. 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.
55. 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.
56. **Dick, C. W.**, S. J. Wright (2005) Tropical mountain cradles of dry forest diversity. *Proceedings of the National Academy of Sciences USA* 102 (31): 10757-10758.
57. Laurance, W. F., A. A. Oliveira, S. G. Laurance, R. Condit, H. E. M. Nascimento, **C. W. Dick**, A. C. Sanchez-Thorin, T. E. Lovejoy, and J. E. L. S. Ribeiro (2005). Late twentieth-century trends in tree-community composition in an Amazonian forest. Chapter 9 in *Tropical Forests and Global Atmospheric Change* (Y. Mahli and O. Phillips, eds.), pp 97-106.
58. 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.
59. **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.
60. Moritz, C., **C. W. Dick**, and E. Bermingham (2005) From the past to the future: evolution, ecology and conservation of tropical rainforests. Chapter 1 in *Tropical Rain Forests: Past, Present and Future* (E. Bermingham, C. W. Dick and C. Moritz, eds.), pp. 1-6. Chicago, University of Chicago Press.
61. 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.
62. 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.
63. 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.
64. 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.
65. **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.
66. 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.
67. Austerlitz, F., **C. W. Dick**, C. Dutech, E. Klein, S. Oddou-Muratoria, P. E. Smouse, V. L. Sork (2004) Using genetic markers to estimate the pollen dispersal curve. *Molecular Ecology* 13: 937-

- 954.
68. **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.
 69. 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.
 70. **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.
 71. 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.
 72. **Dick, C. W.** (2002) Genetic relationships of plants in the CTFS network. *Inside CTFS*, summer 2002, Center for Tropical Forest Sciences, pp. 1-6.
 73. **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.
 74. ***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*
 75. Bermingham, E. and **Dick, C. W.** (2001) The *Inga*: Newcomer or museum antiquity? *Science* 293: 2214-2216.
 76. **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.
 77. **Dick, C. W.** and M. Hamilton (1999) Microsatellites from the Amazonian tree *Dinizia excelsa* (Fabaceae). *Molecular Ecology* 8: 1765-66.
 78. 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

79. Bermingham, E., **C. W. Dick**, and C. Moritz, editors (2005) *Tropical Rain Forests: Past, Present and Future*, University of Chicago Press, Chicago.
80. 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

81. **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)
82. **Dick, CW.** 1990. *Phylogenetic relationships among Megabats, Microbats and Primates*. Hampshire College, Amherst, MA (Principle Advisor L. Miller)

Popular

83. **Dick, C. W.** (2016) Why ecologists support the Ann Arbor deer cull. *Bridge Magazine* (January issue)

Contributions to Biological Infrastructure

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

Incorporation of a 23 ha forest inventory plot at the E.S. George Reserve into the Smithsonian's ForestGEO network in 2014. Over 48,000 woody plants were inventoried as part of this ongoing effort to understand forest dynamics.

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 (Amazon Rain Forests (2013), and (4) Field Ecology (NRE556/EEB477 to be taught 2015, 2016). 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 Advisor

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-present)
Jordan Bemmels (NSF Doctoral Fellow; PhD 2011-present)
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; Tupper Postdoctoral Fellow, STRI)
Shalene Jha (2009 PhD; coadvised with J. Vandermeer; Assistant 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

Paula Teichholtz (Phd, ongoing)
Amanda Meier (PhD, ongoing)
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

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, 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

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)

School of Natural Resources and Environment (SNRE)

Faculty search committee, forest ecologist (2006-2007)

Graduate School of LSA

Museum Studies Committee

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 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

- 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 Tecnologia, 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

- 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 (intermediate)