

Ivette Perfecto
Curriculum Vitae

School for Environment and Sustainability, The University of Michigan
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Education

- 1989 Ph.D., Ecology and Natural Resources, University of Michigan
- 1982 M.S., Biology, University of Michigan
- 1977 B.S., *Cum Laude*, Biology, Universidad Sagrado Corazón, Puerto Rico

Academic Positions

- 2009 to present George W. Pack Professor of Environment and Sustainability,
University of Michigan, Ann Arbor, MI
- 2006 to present Professor, School for Environment and Sustainability, University
of Michigan, Ann Arbor, MI
- 1996 to 2006 Associate Professor, School for Environment and Sustainability,
University of Michigan, Ann Arbor, MI
- 1989 to 1996 Assistant Professor, School for Environment and Sustainability,
University of Michigan, Ann Arbor, MI

Visiting and Associated Positions

- 2000 to present Associate Faculty, Latina/o Studies Program, American Culture,
University of Michigan
- 2012 to 2013 Adjunct Faculty, Collage of Graduate Studies, University of
Toledo, Toledo, Ohio.
- 2003 to present Associate Faculty, Program in the Environment, University of
Michigan
- 2004 to present Associate Faculty, Centro de Estudios de Desarrollo Agrario Rural,
Universidad Agrária de la Habana, Cuba
- 2005 to 2006 Visiting Faculty, El Colegio de la Frontera Sur (ECOSUR),
Chiapas, Mexico
- Fall, 2004 Visiting Faculty, Universidad Federal de Minas Gerais, Brazil

- 9/2000 to 5/2002 Acting Director, Latina/o Studies Program, American Culture,
School of Literature, Science and Art, University of Michigan
- 9/1996 to 9/1997 Visiting Scholar, Department of Entomology, Wageningen
Agricultural University, The Netherlands
- 2/1986 to 6/1987 Visiting Faculty, National Agricultural University, Nicaragua
- 1/1982 to 7/1983 Instructor, Department of Biology, Interamerican University,
Puerto Rico

Other Academic and Professional Experience

January 2019	Instructor of an intensive two-week course entitled “Ecology for Agroecology”, Universidad de Puerto Rico, Utuado
January 2018	Instructor of an intensive one-week course entitled “Complejidad Ecológica y Agroecología”, El Colegio de la Frontera Sur, San Cristóbal de las Casa, México
January 2017	Instructor of an intensive one-week course entitled “Complejidad Ecológica y Agroecología”, Universidad del Valle, Cali, Colombia
April, 2016	Instructor of an intensive 2-day course entitled “Complejidad Ecológica y Agroecología”, Casa Pueblo y Universidad de Puerto Rico, Recinto de Mayaguez, Adjuntas, Puerto Rico
January 2016	Instructor of an intensive one-week course entitled “Biodiversity, Ecological Complexity and Agroecosystems”, Universitat degli Studi di Firenze, Florence, Italy
April 2015	Instructor for a two-week course entitled Agroecology: Educating the Intuition through Ecological Theory, University of Natural Resources and Life Sciences (BOKU), Vienna, Austria
February 2014	Instructor of an intensive one-week course entitled “Biodiversity Conservation and Agriculture”, Proyecto Biodiversidad Agrícola en Ecosistemas Protegidos Cubana (COBARB), Instituto Nacional de Investigaciones Fundamentales Agrícolas Tropical (INIFAT), Habana Cuba in collaboration with UNESCO and Bioversity, Rome, Italy.
2005 - 2008	Coordinating Lead Author – International Assessment of Agricultural Science and Technology for Development (IAASTD), Latin America/Caribbean Assessment Report and Synthesis Report.
1992 - 2007	Co-coordinator and Instructor of a three-week intensive field course entitled "The Dynamics of Tropical Rain Forests," which is part of a research expedition to examine the regeneration of the rain forest in Nicaragua after hurricane and agricultural disturbance.
May 2005	Instructor of an intensive one-week course entitled ‘Biodiversity and Conservation’ Charles University, Prague, Czech Republic.
October 2004	Instructor of an intensive one-week course entitled "Biodiversitas e conservação” Universidad Federal de Minas Gerais, Belo Horizonte, Brazil.
April 2003	Invited Professor: Series of (7) Lectures on Biodiversity at Università di Firenze, Italy.
July 2000, 2002 and 2005	Instructor of an intensive one-week course entitled "Measurement and Analysis of Biodiversity,” ECOSUR, Chiapas, Mexico.
1996 (7/4 to 7/14)	Visiting Faculty, Ecological Principles of Agroecology, part of the Masters in Agroecology offered by the Universidad Iberoamericana, Spain.

1995 (1 week)	Co-coordinator and Instructor, Ecology of Intercropping, Centro de Investigaciones de Horticultura Liliana Dimitrova, Provincia de La Habana, Cuba.
1992 (1 week)	Co-coordinator and Instructor, Ecology of Multi-species Systems, Centro de Investigaciones Ecológicas del Sureste, San Cristóbal de las Casas, Chiapas, México.
1990 and 1991	Visiting Faculty, Tropical Managed Ecosystems Course (Summer Session), Organization for Tropical Studies, Costa Rica.
1988 and 1989	Co-coordinator, Agroecology Course (Summer Session), Organization for Tropical Studies, Costa Rica.
1987	Consultant for the Nicaraguan Ministry of Agriculture Project: Environmental and Socio-Economic Effects of Pesticide Subsidies.

Awards and Honors

- 2019 Elected Senior Fellow of the Michigan Society of Fellows
- 2015 Elected Senior Fellow of the Ecological Society of America
- 2012-2013 Elected Member of the Scientific Council of the Regional Institute of Biodiversity (IRBIO) for Central America and the Dominican Republic (three-year appointment).
- 2011 Ecological Society of America Diversity Award (awarded by the Education and Human Resources Committee)
- 2010 Faculty Recognition Award (University of Michigan, university-wide award)
- 2009 George W. Pack Professorship (permanent endowed chair)
- 2009 Elected Fellow of the American Association for the Advancement of Science
- 2007-2008 Outstanding Faculty Award (chosen by SNRE Student Government)
- 2004-2005 Fulbright Scholar (Brazil)
- 2002 Faculty Career Development Award, University of Michigan
- 2001 Certificate of Recognition for Service to Latina/o Students, Latino Task Force
- 1989 The Samuel A. Graham Award, SNRE, University of Michigan
- 1988 Special Recognition (Ford Foundation)
- 1986-1987 Fulbright Fellow (Nicaragua)

Grants and Other Financial Awards (Perfecto as Lead PI)

2019-2021	Fusing Satellite and Drone Data with GIS to Create New Analytical Decision Support Tools for Varying Farm Types (USDA-NIFA) Kevin Atkins, PI, Ivette Perfecto, Co-PI. (\$243,959)
2019-2022	The Ecology of Critical Transitions in Pest Control in the Coffee Agroecosystem (National Science Foundation) John Vandermeer, Co-PI (\$699,875)
2018-2020	Reimagining Puerto Rico's Energy and Food Systems through Community Engagement (Graham Sustainability Institute Transformation Grant) José

- Alfaro, John Vandermeer, Javier Lugo, Mariangie Ramos, Olgaly Ramos, Lorenzo Salecetti, Yanira Sanchez, Co-PIs (\$302,291)
- 2018-2020 Evaluating Hurricane Damage and Resilience in Coffee Agroecosystems in Puerto Rico (USDA-NIFA) John Vandermee and Javier Lugo, Co-PIs (\$100,000)
- 2018-2019 Sustainability with an Equity Lense: Cultivating an Inclusive Core Curriculum and Culture in the School for Environment and Sustainability (Rackham Graduate School) Victoria Cambell-Arvai, Sheila Schueller, Sonia Joshi, Dorceta Taylor, Co-PIs (\$11,000)
- 2018-2019 Recruitment Program of Students from Puerto Rico to SSEAS and EEB (Rackham Graduate School) John Vandermeer, Co-PI (\$5,000)
- 2017-2020 Understanding Multifunctional Landscapes Within The Model Forest of Puerto Rico (USDA-NIFA), John Vandermee and Javier Lugo, Co-PIs (\$500,000)
- 2015-2018 Curriculum Development in Sustainable Food Systems: Increasing Number and Diversity of Students in Sustainable Food Systems Studies (USDA-HEC Program) Robert Greses, Jenifer Blesh, Karen Peterson and Susan Aaronson, Co-PIs. (\$150,000)
- 2014-2016 Generation of spatial pattern and consequences for the succession of a northeastern deciduous forest in Michigan (USDA-NIFA McIntire Stennis Program) John Vandermeer, Co-PI
- 2013-2014 Student engagement with the local and global food system (Third Century Initiative Award, UM)
- 2013-2015 Doctoral Dissertation Improvement Grant (for David Gonthier): Causes and Consequences of Biodiversity in Coffee Agriculture (DDIG-NSF)
- 2012-2014 Urban Gardens: spontaneous generation of spatial pattern, consequences for ecosystem and human health (MCube Award, UM)
- 2012-2013 Expanding horizons of research questions in agroecology: exploring the consequences of climate change and agricultural intensification in the coffee agroecosystem (Crosby Award, UM)
- 2012-2014 Ecology and complexity of the coffee farm (NSF: OPUS)
- 2011-2013 SNRE Envoys Initiative (Faculty Allies Diversity Grant) Bill Currie and Nick Reo, CoPIs
- 2006-2009 Forest Successional Dynamics in the Oak-Dominated Forests of the E. S. George Reserve: A Spatially Explicit Approach (MacIntyre-Stennis Grant) John Vandermeer Co-PI
- 2006-2008 Matrix Quality and the Value of Biodiversity: Conservation of Bats in Neotropical Agroforestry Systems (NSF Postdoctoral Fellowship to Kimberly Williams-Guillén)
- 2004-2010 Spatial scaling with an unusual food web structure: the case of *Azteca* ants in the coffee agroecosystem (NSF) John Vandermeer, Co-PI
- 2003-2006 Pesticide reduction through a better understanding of fertilizer/pest relationship (US Department of Agriculture)
- 2003-2004 Incorporation of technical education into an international institutional framework: a case study of the Mesoamerican Biological Corridor in Nicaragua (Advance Study Center, II, UM) Maria Lemos, Co-PI

- 2003-2004 Achieving economic and environmental goals by reducing the gap between producers and consumers: a case study of Ann Arbor's coffee consumers and Chiapas' coffee producers (Center for International Business Education, and Advance Study Center, II, UM) Tom Princen-Co-PI
- 2003-2004 Forest Successional Processes in the E. S. George Reserve, Livingston County, Michigan (McIntyre Stennis Program) John Vandermeer Co-PI
- 2000 – 2004 Biodiversity and Ecosystem Function: Top Down Control of Herbivory by Birds and Invertebrate predators in the Coffee Agroecosystem. (NSF) Russell Greenberg and Guillermo Ibarra-Núñez co-PIs
- 2002 Latinos and Environmental Justice (a conference). (Office of Vice Provost for Research, UM; Rackham Graduate School; International Institute, UM)
- 2001-2002 Biodiversity loss and the function of leaf litter ants in contrasting coffee management. (The Land Institute)
- 2000 Neotropical resident and migratory bird conservation in coffee agroecosystems in Chiapas, Mexico. (Chicago Zoological Society)
- 1999 Civic Engagement through a Field Course in Agriculture, Center for Learning through Community Service (Kellogg Foundation) with Catherine Badgley
- 1998-2003 Pesticide Reduction through a Better Understanding of the Fertilizer/Pest Relationship. (US Department of Agriculture)
- 1996 Sabbatical Award, Office of Multicultural Affairs, University of Michigan
- 1994 Biodiversity and the Transformation of Tropical Agroecosystem, (Office of Vice-Provost for Research, UM; Office of the Vice Provost for Academic and Multicultural Affairs, UM)
- 1993 Biodiversity in Changing Agroecosystems: The Coffee Agroecosystem in Costa Rica. (Rackham Graduate School, UM).
- 1991 Methane Uptake and the Modernization of Coffee: A Case Study in Costa Rica. (Population and Environment Dynamics Project Award, UM)
- 1990 / 1991 Ecological Consequences of a New Coffee Production Technology, (NSF)
- 1990 Ecological Consequences of a New Coffee Production Technology (Office of Vice-Provost for Research, UM).

Publications

Books

1. **Perfecto, I., J. Vandermeer and A. Wright** (Revised Edition). 2019. *Nature's Matrix: Linking Agriculture, Conservation and Food Sovereignty*, Routledge, London.
2. Vandermeer, H. and I. **Perfecto**. 2017. *Ecological Complexity for Agroecology*, Routledge, London.
3. **Perfecto, I.** and J. Vandermeer. 2015. *Coffee Agroecology*, Routledge, London.
4. **Perfecto, I., J. Vandermeer and A. Wright**. 2009. *Nature's Matrix: Linking Agriculture, Conservation and Food Sovereignty*, Routledge, London.

- Vandermeer, J. H. and I. **Perfecto**. 2005 (2nd Edition). *A Breakfast of Biodiversity: The Political Ecology of Rain Forest Deforestation*, Institute for Food Development Policy, San Francisco, CA

Peer-reviewed journals (* student or post doctoral collaborator)

- Vandermeer J., I. Armbrecht, A. de la Mora, K. K. Ennis, G. Fitch, D. J. Gonthier, Z. Hajian-Forooshani, H. Hsieh, A. Iverson, D. Jackson, S. Jha, M. E. Jiménez-Soto, G. Lopez-Bautista, A. Larsen, K. Li, H. Liere, A. MacDonald, L. Marin, K. A. Mathis, I. Monagan, J. R. Morris, T. W. Y. Ong, G. L. Pardee, I. S. Rivera-Salinas, C. Vaiyda, K. Williams-Guillen, S. Yitbarek, S. Uno, A. Zemenick, S. M. Philpott, I. **Perfecto**. *In press*. The community ecology of herbivore regulation in an agroecosystem: Lessons from complex systems. *BioScience*.
- Perfecto, I.** and J. Vandermeer. *In press*. Antagonism between *Anolis* spp. and *Wasmannia auropunctata* in coffee farms on Puerto Rico: Potential complications of biological control of the coffee berry borer. *Caribbean Journal of Science*.
- Perfecto, I.**, Z. Hajian-Forooshani*, A. Iverson, A. Irizarry, N. Medina*, C. Vaidya*, A. White*, J. Vandermeer. 2019. Response of coffee farms to Hurricane Maria: resistance and resilience from an extreme climatic event. Submitted to *Scientific Reports* (2019) 9:15668 | <https://doi.org/10.1038/s41598-019-51416-1>
- Iverson*, A., D. Gonthier, D. Pak*, K. Ennis, R. Burnham, I. **Perfecto**, M. Ramos Rodriguez, J. Vandermeer. 2019. A multifunctional approach for achieving simultaneous biodiversity conservation and farmer livelihood in coffee agroecosystems. *Biological Conservation* 238: 108179.
- Vandermeer, J. and I. **Perfecto**. 2019. Complex systems in applied ecology: the case of the green coffee scale. *Proceedings of the National Academy of Science* 116 (30): 15074-15079.
- McCune*, N., I. **Perfecto**, K. Aviles-Vazquez, J. Vazquez-Negron, J. Vandermeer. 2019. Peasant balances and agroecological scaling in Puerto Rican coffee farmers. *Agroecology and Sustainable Food Systems* 43 (7-8): 810-826 (DOI: 10.1080/21683565.2019.1608348)
- Perfecto, I.**, M. E. Jimenez Soto, and J. Vandermeer. 2019. Coffee Landscapes Shaping the Anthropocene: A Socio-Ecological Portrait of Coffee Plantations in the Soconusco Region of Chiapas, Mexico. *Current Anthropology* 60, Supplement 20, S236-S250.
- Blesh, J, L. Hoey, A. Jones, H. Friedmann, and I. **Perfecto**. 2019. Development pathways toward “zero hunger”. *World Development* 118: 1-14.
- Glum*, P., G. Fitch* , M. C. Simao* , C. Vaidya* , J. Matthijs* , B. Iuliano* , I. **Perfecto**. 2019. Changes in adult sex ratio in wild bee communities are linked to urbanization. *Scientific Reports* 9, Article number 3767.
- Kobusinge, J., H. G. Kagazi., A. Kasoma, P. Kucel, L. Nikibuule, I. **Perfecto** and W.W. Wagoire. 2018. Farmer’s knowledge of pests and diseases in the coffee-banana

agroforestry systems of mid-eastern Uganda. *Journal of Agriculture and Environmental Sciences* 7(2): Abstract 12 (DOI: 10.15640/jaes.v7n2a12).

11. Allen, D., A. Strayer, C. W. Dick, I. **Perfecto** and J. Vandermeer. 2018. Scale and strength of oak-mesophyte interactions in a transition oak-hickory forest. *Canadian Journal of Forest Research* 48(11): 1366-1372.
12. Simao*, M. C., J. Matthijs and I. **Perfecto**. 2018. Experimental small-scale floral patches increase species density but not abundance of small urban bees (Hymenoptera: Apoidea). *Journal of Applied Ecology* 55: 1759-1768.
13. Vandermeer, J. and I. **Perfecto**. 2018. Ecological complexity in the Rosennean framework. *Ecological Complexity* 35: 45-50.
14. Iverson*, A. D. Jackson, R. Burnham, I. **Perfecto**, N. Vandenberg* and J. Vandermeer. 2018. Species complementarity in two myrmecophilous lady beetle species in a coffee agroecosystem: implications for biological control. *BioControl* 63(2): 253-264.
15. Vandermeer, J., A. Aga, J. Allgeiers, C. Badgley, R. Baucom, J. Blesh, L. F. Shapiro, A.D. Jones, L. Hoey, M. Jains, I. **Perfecto** and M. Wilson. 2018. Feeding Prometheus: An interdisciplinary approach for solving the global food crisis. *Frontiers in Sustainable Food Systems*, Volume 2, article 39
<https://doi.org/10.3389/fsufs.2018.00039>
16. Vandermeer, J., Z. Hajian-Forooshani and I. **Perfecto**. 2018. The dynamics of the coffee rust disease: an epidemiological approach using network theory. *European Journal of Plant Pathology* 150(4): 1001-1010.
17. Nikubuule, L., G. H. Kagezy, P. Kuzel, J. Kubisinge, W. W. Wagoire, G. Kisolo, and I. **Perfecto**. 2017. Farmer's knowledge of agronomic and abiotic constraints in the coffee-banana agroforestry system of south-western Uganda. *International Journal of Nutrition and Agricultural Research* 4 (2): 1005-1012.
18. Fisher*, K., and I. **Perfecto**. 2017. Phenological floral resource complementarity explains patterns in bee abundance. *Ecological Applications* 27(6): 1815-1826
19. Morris*, J. R., E. Jiménez-Soto*, S.M. Philpott and I. **Perfecto**. 2017. Ant-mediated biological control of the coffee berry borer (*Hypothenemus hampei* Ferrari): diversity, ecological complexity, and conservation biocontrol. *Myrmecological News* 26: 1-17.
20. Vandermeer, J. and I. **Perfecto**. 2017. Ecological complexity in agroecosystems: seven themes from theory. *Agroecology and Sustainable Food Systems* 41(7): 697-722.
21. Yitbarek*, S., J. Vandermeer and I. **Perfecto**. 2017. From insinuator to dominator: foraging switching by an exotic ant. *Diversity and Distributions* 23: 820-827.
22. Garcia-Barrios, L., J. Cruz-Morales, J., Vandermeer, and I. **Perfecto**. 2017. The Azteca Chess Experience: Learning how to share concepts of ecological complexity with small coffee farmers. *Ecology and Society* 22(2): 37. ***Winner of the Best Paper of Ecology and Society Award of 2017.**

23. Monagan*, I., J. Morris*, A. Davis-Robosky, I. **Perfecto** and J. Vandermeer. 2017. Anolis lizards as biocontrol agents in mainland and island agroecosystems. *Ecology and Evolution* 7: 2193-2203.
24. Vaidya*, C., M. Cruz*, R. Kauzel*, D. J. Gonthier*, A. L. Iverson*, K. K. Ennis* and I. **Perfecto**. 2017. Local and landscape constrains on coffee leafhopper diversity. *Journal of Insect Science* 17(2): 38; 1-7 (doi: 10.1093/jisesa/iew127).
25. Li*, K., Y. He*, S. K. Campbell*, S. Colborn*, E. L. Jackson*, A. Martin*, I. V. Monagan*, W. Y. Ong* and I. **Perfecto**. 2017. From endogenous to exogenous pattern formation: Invasive plant species changes the spatial distribution of a native ant. *Global Change Biology* 23: 2250-2261. DOI: 10.1111/gcb.13671
26. Wittman, H., D. J. Abson, R. Bezner Kerr, J. Blesh, M. J. Chappell, J. Hanspach, I. **Perfecto** and J. Fischer. 2017. A socioecological perspective on harmonizing food security and biodiversity conservation. *Regional Environmental Change* 17 (5): 1291:1301. doi 10.1007/s10113-016-1045-9
27. Maas, B. D. S. Karp, S. J. Bumrungsri, K. Darras, D. Gonthier*, J. C. –C. Huang, C. Lindell, J. Maine, L. Mestre, L. Michel, E. Morrison, I. **Perfecto**, S. M. Philpott, C. H. Sekercioglu, R. M. Silva, P. Taylor, T. Tschardtke, S. Van Bael, C. J. Whelan, and K. Williams-Guillén*. 2016. Bird and bat predation services in tropical forestry and agroforestry landscapes. *Biological Reviews* 91(4): 1081-1101.
28. Morris*, J. R. and I. **Perfecto**. 2016. Testing the potential for ant predation of immature coffee berry borer (*Hypothenemus hampei*) life stages. *Agriculture, Ecosystems and Environment* 233: 224-238.
29. Hajian-Forooshani*, Z., I. S. Rivera Salinas*, E. Jimenez-Soto*, I. **Perfecto** and J. Vandermeer. 2016. Impact of regionally distinct agroecosystems communities on the potential for autonomous control of the coffee leaf rust. *Environmental Entomology* 45 (6): 1521-1526. doi: 10.1093/ee/nvw125.
30. Goulard, F., I. **Perfecto**, J. Vandermeer, D. Boucher, M. J. Chappell, G. Wilson Fernandez, A. Scariot, M. Correa Da Silva, W. L. Oliviera, R. Neville, J. Moor, M. Bustamante, S. Carvalho Ribeiro, B. Soares-Filho. 2016. The doubt promise of beef production to environmental conservation: Response to Oliveira Silva. *Nature Climate Change* 6: 893-894.
31. Garcia-Barrios, L., J. Vandermeer, and I. **Perfecto**. 2016. Ecological Complexity Game; Shade Coffee; Educational Board-Game; Autonomous Pest Control; Trait mediated interactions. *Agriculture, Ecosystems and Environment* 232 (2016): 190-198.
32. Li*, K., J. Vandermeer and I. **Perfecto**. 2016 Agricultural intensification increases the spatial distribution of an endogenous biological control system through the mediating role of trees in a coffee agroecosystem. *Royal Society Open Science* 3: 160073.
33. James, T. Y., J. A. Marino, I. **Perfecto** and J. Vandermeer. 2016. Identification of coffee rust mycoparasites using single molecule DNA sequencing of infected pustules. *Applied and Environmental Microbiology* 82 (2): 631-636.

34. Marin*, L., S. M. Philpott, A. de la Mora, G. Ibarra, S. Tryban and I. **Perfecto**. 2016. Response of ground spiders to local and landscape factors in a Mexican coffee landscape. *Agriculture, Ecosystems and Environment* 222: 80-92.
35. **Perfecto**, I. and J. Vandermeer. 2015. Structural constraints in novel ecosystems in agriculture: the rapid emergence of stereotypic modules. *Perspectives in Plant Ecology, Evolution and Systematics* 17: 522-530.
36. Morris*, J. J. Vandermeer and I. **Perfecto**. 2015. A keystone ant species provides robust biological control of the coffee berry borer under varying pest densities. *PLoS ONE* 10(11): e0142850. doi:10.1371/journal.pone.0142850.
37. Marin*, L.E., Jackson*, D. and I. **Perfecto**. 2015. Spatially explicit positive associations between ants and spiders and its potential mechanisms. *Oikos* 124: 1078-1088.
38. Iverson*, A., L. Marin*, K. Ennis*, D. Gonthier*, J. Remfert*, J. O'Connor-Barrie*, B. Cardinale and I. **Perfecto**. 2014. Do polycultures promote win-wins or tradeoffs in agricultural ecosystem services?: A meta-analysis. *Journal of Applied Ecology* 51: 1593-1602.
39. **Perfecto**, I., J. Vandermeer and S. M. Philpott. 2014. Complex ecological interactions in the coffee agroecosystem. *Annual Reviews of Ecology, Evolution and Systematics* 45: 137-158.
40. Gonthier*, D. J., K. K. Ennis*, S. Farinas*, H.Y. Hsieh*, A. L. Iverson*, P. Batary, J. Rodolphi, T. Tschardtke, B. J. Cardinale and I. **Perfecto**. 2014. Biodiversity conservation in agriculture requires a multi-scale approach. *Proceedings of the Royal Society of London* 281 (1791): 20141358
41. Hajian-Forooshani*, Z., D. J. Gonthier*, L. Marin*, A. L. Iverson* and I. **Perfecto**. 2014. Changes in species diversity of arboreal spiders in Mexican coffee agroecosystems: Untangling the web of local and landscape influences driving diversity. *PeerJ* 2:e623; DOI 10.7717/peerj.623
42. Jackson*, D., D. Allen*, I. **Perfecto** and J. Vandermeer. 2014. Self-organization of background habitat determines the nature of population spatial structure. *Oikos* 123 (6): 751-761.
43. Kuesel*, R., D. J. Gonthier*, M. Cruz*, C. Vaiyda*, Iverson*, A. L. and I. **Perfecto**. 2014. Local management and landscape use intensity associated with a coffee leaf-chewing beetle. *Agroecology and Sustainable Food Systems* 38(5): 532-440.
44. Liere*, H., I. **Perfecto** and J. Vandermeer. 2014. Stage-dependent response to habitat heterogeneity: consequences for a predatory insect population in a coffee agroecosystem. *Ecology and Evolution* 4 (16): 3201-3209
45. Jackson*, D., J. Vandermeer, I. **Perfecto** and S. Philpott. 2014. Population responses to environmental change in a tropical ant: the interaction of spatial and temporal dynamics. *PLoS ONE* 9(5): e97809. doi:10.1371/journal.pone.0097809.

46. Vandermeer, J., D. Jackson* and I. **Perfecto**. 2014. Qualitative dynamics of the coffee rust epidemic: educating the intuition with theoretical ecology. *BioScience* 2014; doi: 10.1093/biosci/bit034.
47. Briggs*, H. M., I. **Perfecto** and B. J. Brosi. 2013. The role of the agricultural matrix: coffee management and Euglossine bee (Hymenoptera: Apidae: Euglossini) communities in southern Mexico. *Environmental Entomology* 42 (6): 1210-1217.
48. Chappell, M.J., H. Wittman, C. Bacon, B. Ferguson, L. García Barrios, R. García Barrios, J. Lima, V. E. Méndez, H. Morales, L. Soto Pinto, J. Vandermeer, and I. **Perfecto**. 2013. Food sovereignty: an alternative paradigm for poverty reduction and biodiversity conservation in Latin America. *F1000Research* 2013, 2: 235 (doi:10.12688/f1000research.2-235.v1)
49. Silva*, E.N. and I. **Perfecto**. 2013. Coexistence of aphid predators in cacao plants: Does ant-aphid mutualism play a role? *Sociobiology* 60:259-265.
50. Jiménez-Soto*, M. E., J. A. Cruz-Rodríguez, J. Vandermeer and I. **Perfecto**. 2013. *Hypothenemus hampei* (Coleoptera: Curculionidae) and its interactions with *Azteca instabilis* and *Pheidole synanthropica* (Hymenoptera: Formicidae) in a shade coffee agroecosystem. *Environmental Entomology* 42: 915-924.
51. Belasen*, A., E. Burkett*, A. Injaian*, K. Li*, D. Allen*, and I. **Perfecto**. 2013. Effect of subcanopy on habitat selection in the blue-spotted salamander (*Ambystoma laterale-jeffersonianum* unisexual complex). *Copeia* 2013 (2): 254-261.
52. Gonthier*, D. J., K.K. Ennis*, S.M. Philpott, J. Vandermeer and I. **Perfecto**. 2013. Ants defend coffee berry borer colonization. *BioControl* (on line first: [BioControl DOI 10.1007/s10526-013-9541-z](https://doi.org/10.1007/s10526-013-9541-z))
53. Cunningham, S. A., S.J. Attwood, K.S. Bawa, T.G. Benton, L.M., Broadhurst, R.K. Didham, S. McIntyre, I. **Perfecto**, M.J. Samsways, T. Tscharntke, J. Vandermeer, M.A. Villard, A.G. Young and D.B. Lindenmayer. 2013. To close the yield-gap while saving biodiversity will require multiple locally relevant strategies. *Agriculture, Ecosystems and Environment* 173: 20-27.
54. Marin*, L. and I. **Perfecto**. 2013. Spider diversity in agroecosystems: the influence of agricultural intensification and aggressive ants. *Environmental Entomology* 42: 204-213.
55. **Perfecto**, I. and J. Vandermeer. 2013. Ant assemblages on a coffee farm: spatial mosaic versus shifting patchwork. *Environmental Entomology* 42: 38-48.
56. Vandermeer, J. and I. **Perfecto**. 2013. Complex traditions: Intersecting theoretic frameworks in agroecological research. *Agroecology and Sustainable Food Systems* 37: 76-89.
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13. Vandermeer, J. and I. **Perfecto**. 2007. The diverse faces of ecosystem engineers in agroecosystems, pp. 367-385. In K. M. D. Cuddington, J. E. Byers, A. Hastings, and W. G. Wilson (eds.). *Ecosystems Engineers: Concepts, Theory, and Applications in Ecology*. Elsevier, Inc., NY.
14. **Perfecto**, I., I. Armbrecht, S. M. Philpott, L. Soto Pinto and T. V. Dietsch. 2007. Shade coffee and the stability of forest margins in Northern Latin America. In T. Tschardt, M. Zeller and C. Leuschner (eds.), *The Stability of Tropical Rainforest Margins: Linking Ecological, Economic and Social Constraints*. Springer-Verlag, Berlin. Pp 227-263.

15. **Perfecto, I.** and I. Armbrrecht. 2003. The coffee agroecosystem in the Neotropics: Combining ecological and economic goals. In J. Vandermeer (ed.), pp 159-194. *Tropical Agroecosystems*, CRC Press, Boca Raton, FL.
16. **Perfecto, I.** and J. Vandermeer. 2002. Caficultura y biodiversidad: cafetales como reservas de biodiversidad y biodiversidad como benefactora de la caficultura. In J. Pohlen (ed.), pp 75-86. *Mexico y la Caficultura Chiapaneca: Reflexiones y Alternativas para los Caficultores*. Shaker Verlag, Aachen.
17. **Perfecto, I.** and A. Castiñeiras, 1998. Deployment of the predaceous ants and their conservation in agroecosystems. In Barbosa, P. (ed.), pp 269-289. *Perspectives on the Conservation of Natural Enemies of Pest Species*. Academic Press, San Diego, CA.
18. **Perfecto, I.** 1994. Sustainable agriculture embedded in a global sustainable future: agriculture in the United States and Cuba. In B. Bryant, (ed.), pp 172-186. *Issues, Policies, and Solutions for Environmental Justice*. Island Press, Washington DC.
19. **Perfecto, I.** 1992. Pesticide exposure to farm workers and the international connection. In B. Bryant and P. Mohai, (eds.), pp 177-203. *Race and the Incidence of Environmental Hazards*, Westview Press, Boulder, CO.
20. **Perfecto, I.** 1991. Hazardous waste and pesticides: an international tragedy. In B. Bryant, and P. Mohai (eds.), pp 36-39. *Environmental Racism: Issues and Dilemmas*, University of Michigan, Office of Minority Affairs, Ann Arbor, MI.

Non-Peer-reviewed arxiv.org/journals/magazines

1. Vandermeer, J. and I. **Perfecto**. 2017. Science for the People with the EZLN: The fault lies with the flower. *Against the Current*, May/June 2017, pp 13-14.
2. Vandermeer, J., P. Rohani and I. **Perfecto**. 2015. Local dynamics of the coffee rust disease and the potential effect of shade. arXiv:1510.05849 <http://arxiv.org/licenses/nonexclusive-distrib/1.0/>
3. Dos Santos*, I. A. and I. **Perfecto**. 2011. Impacts of Agroecosystems on ant biodiversity in the Amazon in Brazil. *Forestry Research Newsletter (China)* 18:20-23.
4. **Perfecto, I.** and C. Badgley. 2010. Can small-scale organic farms feed the world? *Sojourners*.
5. Ruiz, J., J. Vandermeer, I. Granzow de la Cerda, **I. Perfecto**, D. Boucher. *In Press*. Regeneración de bosques huracanados de Nicaragua (1988-2007): veinte años de experiencias de un programa de investigación y enseñanza. *Wani*.
6. Williams-Guillen, K., I. **Perfecto**, and J. Vandermeer. 2008. Non-phylostomid Bats across a gradient of agricultural intensification in coffee agroecosystems of Chiapas, Mexico. *Bat Research News* 49:185-186.
7. **Perfecto, I.** 2008. A new era for agriculture: International Agricultural Assessments Regional Reports, Latin America and the Caribbean. PAN North America Magazine. Summer 2008: 15.
8. Greenberg, R., I. **Perfecto**, S. M. Philpott. 2008. Coffee: Ecology in the Marketplace. (Guest Editorial) *Frontiers in Ecology and the Environment* 6: 115.
9. **Perfecto, I.** and C. Badgley. 2008. Kann Bio-landwirtschaft die welt ernähren? *Ökologie & Landbau* 146: 53-55.

10. Vandermeer, J. and **I. Perfecto**. 2007. Tropical conservation and grassroots social movements: ecological theory and social justice. *Bulletin of the Ecological Society of America*, April 2007: 171-175.
11. **Perfecto, I.** and C. Badgley. 2007. Can organic agriculture feed the world? *Pesticide News* 78, December, 2007.
12. Badgley, C. and **I. Perfecto**, J. Chappell, and A. Samulon 2007. Can organic agriculture feed the world? *Renewable Agriculture and Food Systems* 22(2). Solicited commentary.
13. **Perfecto, I.** 2007. Biodiversity meets environmental justice. Pp 106-107 In Bullard et al (eds). *Toxic Wastes and Race at Twenty, 1987-2007. A Report prepared for the United Church of Christ Justice and Witness Ministries.*
14. **Perfecto, I.** 2003. Conservation biology and agroecology: de un pájaro las dos alas. *Endangered Species Update* 20: 133-145.
15. Armbrecht, I. and **I. Perfecto**. 2002. Diversidad de Artrópodos en agroecosistemas cafeteros. Pp 11-16 *In* Monro, A. and M.C. Peña. *Actas del Simposio café y Biodiversidad. Revista Protección Vegetal, año 12(2) Edición Especial.* San Salvador. ISBN 0565091816.
16. Ruiz, J., D. H. Boucher, J. H. Vandermeer, I. Granzow de la Cerda, **I. Perfecto** and V. Martínez Salgado. 2001. Recuperación inicial de un bosque incendiado y previamente afectado por el huracán Juana en Nicaragua. *Encuentro* XXXII(58):66-75.
17. Granzow de la Cerda, I., J Vandermeer, I. **Perfecto** and D. Voucher. 2000. El papel de los huracanes en la diversidad y la estructura de los bosques tropicales. *Quercus Cuaderno* 176, Octubre 2000: 42-45.
18. Granzow de la Cerda, I, J. Vandermeer and I. **Perfecto**. 1999. Los bosques húmedos de Centro America. *El Ecologista* 18: 35-39.
19. **Perfecto, I.** 1996. Loss of insect diversity in a changing agroecosystem: the case of coffee technification. In: *Proceedings of the 1st Sustainable Coffee Congress, September 1996* Rice, R., A. M. Harris and J. McLean (eds.). Smithsonian Migratory Bird Center, Washington, DC.
20. Boucher, D. H., J. H. Vandermeer, M. A. Mallona, N. Zamora, I. **Perfecto**, I. Granzow. 1996. Mortalidad masiva y retardada de árboles después del huracán Juana (Massive and delayed tree mortality after hurricane Joan). *Wani* 19: 38-42.
21. Vandermeer, J. and **I. Perfecto**. 1995. Slicing up the rain forest on your breakfast cereal. *The Humanist*. September/October 1995: 24-30.
22. **Perfecto, I.**, M.A. Mallona, I. de la Cerda and J.H. Vandermeer. 1994. Los recursos terrestres del Caribe nicaragüense: hacia una filosofía de sostenibilidad (Natural resources of Nicaragua's Caribbean Coast: toward a philosophy of sustainability). *Wani* 15: 46-59.
23. Global Exchange Delegation Members (8 members). 1993. Sustainable agriculture: The Cuban experiment. *Global Pesticide Campaigner* 3 (4): 1, 8-10.
24. **Perfecto, I.** and B. Velázquez. 1992. Farm workers: amongst the least protected. *EPA Journal* 18: 13-14.
25. Vandermeer, J. H., **I. Perfecto** and D. Boucher. 1991. Conservation in Nicaragua and Costa Rica: indirect consequences of social policy. *International Ecology Conference Bulletin (INTECOL)* 20: 2-3.

26. Vandermeer, J. H., I. **Perfecto**, M. Reeves, and N. Zamora. 1991. Los bosques costeños tres años después del huracán Joan. (The Caribbean forests of Nicaragua, three years after Hurricane Joan). *Wani* 11: 78-102.
27. Benítez, J. and I. **Perfecto**. 1990. Patrón de distribución de hormigas en diferentes sistemas de café. (Ants distribution in various coffee systems). *Agroecología Neotropical*. 1: 11-15.
28. Vandermeer, J., D. Boucher, I. **Perfecto**, L. Roth, T. Will and W. K. Yih. 1990. Los bosques devastados de Bluefields: Segunda expedición (The devastated forests of Bluefields: Second expedition). *Wani* 8: 60-73.

Book Reviews

1. **Perfecto, I.** 2007. Applying Nature's Design. Corridors as Strategies for Biodiversity Conservation, by A. B. Anderson and C. N. Jenkins. *Environmental Conservation* 34 (1): 86.
2. **Perfecto, I.** 2003. Ecoagriculture: Strategies to Feed the World and Save Wild Biodiversity, by J. A. McNeely and S. J. Scherr. *Ecology* 84: 3100-3102.
3. **Perfecto, I.** 1996. A Cautionary Tale: Failed U.S. Development Policy in Central America, by M.E. Conroy et al., and Bittersweet Harvests for Global Supermarkets: Challenges in Latin America's Agricultural Export Boom by L.A. Thrupp. *Natural Resources and Society*
4. **Perfecto, I.** 1994. Crop Ecology, by R.S. Loomis and D. J. Connors. *Ecology* 75: 573-574.
5. **Perfecto, I.** 1991. A Race to Save the Tropics, by R. Goodland. *Endangered Species Update* 8 (11): 5.

Manuscripts Currently in Revision (accepted with revisions)

1. Yifan*, H., J. P. Baldivieso, A. Agrawal, I. **Perfecto**. Guardians of the forest: How should an indigenous community in Eastern Bolivia defend their land and forest under increasing political and economic pressures. *Case Studies in the Environment*
2. Schmitt, L., B. Aponte, I. **Perfecto**. Evaluating community effects of a keystone ant, *Azteca sericeasur*, on *Inga micheliana* leaf litter decomposition in a shaded coffee agro-ecosystem. *Biotropica*.
3. Hajian-Forooshani, Z., J. Vandermeer, I. **Perfecto**. Insight from excrement: invasive gastropod shift diet to consume the coffee leaf rust and its mycoparasite. *Ecology*.

Manuscripts in Review

1. **Perfecto, I.** Complex agroecosystems, ecological dialectics and games as alternative teaching tools: The case of Azteca Chess. *Experiencias de investigación en Agroecología: Métodos para Analizar Sistemas agroalimentarios en América Latina* (solicited chapter; submitted 8/2019).
2. Jedlicka, J. A., S.M. Philpott, M.L. Baena Hurtado, P. Bichier, T.V. Dietsch, L. Hayward, S. Langdrige, I. **Perfecto**, R. Greenberg. Dietary differences in insectivore birds in coffee agroecosystems in Chiapas, Mexico driven by shade management, season, and year. Submitted to *Journal of Field Ornithology* (8/2019)

3. Gonthier, D.J., R. Kousel and I. **Perfecto**. The pest suppression services of ant diversity are enhanced by herbivore biodiversity. Submitted to *Journal of Applied Ecology*. *PeerJ PrePrints* 1:e151v1
<https://dx.doi.org/10.7287/peerj.preprints.1509v1>
4. Yitbarek*, S. J. Vandermeer, R. Balaguer*, M. Cruz*, y I. **Perfecto**. Priority effects: slowness as an ecological strategy for invasiveness. Submitted to *Environmental Entomology* (6/2017).
5. Yitbarek*, S., I. **Perfecto** and J. Vandermeer. Competitive release from its native range does not predict invasive success of a globally dominant exotic ant species. Submitted to *Ecology* (12/2017)
6. Simao*, M. C. and I. **Perfecto**. Experimental small-scale flower patches increase species density but not abundance of small urban bees. Submitted to *Journal of Applied Ecology* (2/2018)
7. **Perfecto, I.** and J. Vandermeer. Nature's Matrix: The quality of managed and natural landscapes. In: *Family Farms, Food Sovereignty, and the Conservation of Agrobiodiversity in Cuba*. P.B. Eyzaguirre et al. (eds.), Biodiversity International and Earthscan.
8. **Perfecto, I.** and J. Vandermeer. Ecological complexity and contingencies: effects on biological control of a key coffee pests. Submitted to *Agriculture, Ecosystems and Environment* (5/2019)
9. McCune*, N., J. Vandermeer, K. Aviles-Vazquez, J. Vazquez-Negron, **I. Perfecto**. Disaster colonialism, populism, and resistance in Puerto Rico. Submitted to *Journal of Rural Studies* (4/19).
10. Schmitt, L., R. Greenberg, G. Ibarra Núñez, P. Bichier, C. Gordon, **I. Perfecto**. Cascading Effects of Birds and Bats in a Coffee Agroforestry System: Parasitoids are the missing link. Submitted to *Ecology and Evolution* (5/2019)
11. Iverson*, A., R. Burnham, I. **Perfecto**, N. Vandenberg*, J. Vandermeer. Lady beetle, *Diomus* sp. (Coleoptera: Coccinellidae), exploits an ant-protected agricultural pest through chemical mimicry. Submitted to *Journal of Insect Behavior* (7/2017).
12. Hajian-Forooshani, Z., I.S. Rivera Salinas, I. **Perfecto**, J. Vandermeer. Self-organized demographic spatial patterns emerging from the Turing mechanism. Submitted to *Science* (8/2019)

Manuscripts in Preparation (first draft completed)

1. Gonthier*, D.J., A. Iverson*, M. Dennis*, I. **Perfecto**. Agricultural intensification shifts overlaps and collapses ant trophic widths.
2. Simao*, M. C. and I. **Perfecto**. Urban heat island effect and pollinators increase food production and stability in urban agriculture.
3. Hsieh*, S. and I. **Perfecto**. Effect of trait-mediated indirect interactions on a consumer-resource system.
4. Hsieh*, S., J. Morris* and I. **Perfecto**. How widespread are cascading trait-mediated effects in arthropod communities?
5. Ennis*, K., J. Vandermeer and I. **Perfecto**. Keystone competitor creates spatial patterns of biodiversity.

6. **Perfecto**, I and S. M. Philpott. Ants in the city: Ecosystem services of ants in the urban environments. (for *Myrmecological News*)
7. Vandermeer, J., I. **Perfecto**, M. Sheffer and J. D. van der Ploeg. A framework for examining “the food question”: ecological syndromes of production and alternative rural economies.
8. **Perfecto** I. and Vandermeer, J. Interference with ecosystem function in an organic coffee farm: Ecological blowback from an emergency management decision.
9. Barney*, S., I. Rivera* and I. **Perfecto**. Management effects on hummingbird abundance and ecosystem services in a coffee landscape.
10. Aponte Rolon*, B. and I. **Perfecto**. Effect of quality of leaf litter on ant assemblages in a shade-grown coffee agroecosystems in Chiapas, Mexico.

Invited Symposia, Plenary Talks and Seminars (Last 10 years)

2018-2019 **Plenary /Key Note Speaker:**
 “Food Sovereignty: A Challenge to Food Regimes from Below,” Local Food Summit, Slow Food Huron Valley (Feb 16, 2019).

Invited Seminar Speaker:
 “Biodiversity conservation and agriculture: two wings of the same bird” ,
 Institute de Recherche pour de Developement, Marseille, France
 (October 19, 2018).

2017-2018 **Plenary /Key Note Speaker:**
 “Building sustainable food systems with agroecology”, Issues in the Public Square, Norbert O. Schedler Honors College at the University of Central Arkansas, Conway, AK (April 7, 2018)
 “La agroecología frente al muro”, Encuentro de l@s Zapatistas y ConCiencias para la Humanidad: La Ciencia frente al Muro. CIDECI, San Cristobál de las Casa, Mexico (Dec 26-30, 2017)
 “Sistemas diversificados en América Latina: Potencial para la alimentación y otros servicios ecosistémicos”, Congreso Internacional de Servicios Ecosistémicos en el Neotrópico (CISEN V), Oaxaca, Mexico (November 14-16, 2017)

Invited Seminar Speaker:
 “Patchy Anthropocene: Frenzies and Afterlives of Violent Simplifications” A Wenner-Gren Symposium, Sintra, Portugal,
 “Coffee landscapes: forced simplifications on complex systems”
 (September 8-14, 2017)
 Center for Latin American Studies Speaker Series, University of Chicago,
 “Coffee landscapes in the Anthropocene: a socio-ecological approach of coffee in Latin America” (February 12, 2018)

2016-2017

Plenary /Key Note Speaker:

“Land sparing and land sharing: can we have both? A debate with Ben Phalan. Association of Tropical Biology and Conservation, Annual Meeting, Merida, Mexico (July 9-14, 2017)

“Ecología como Ciencia y como Componente de las Cosmovisiones” Encuentro de l@s Zapatistas y las Con-Ciencias para la Humanidad, CIDECI, San Cristobal de las Casas, México (December 26, 2016-January 4, 2017)

“Complejidad Ecológica en el Agroecosistema de Café” Coloquio de Ecología y Café, Universidad del Valle, Cali, Colombia (January, 19-20, 2017)

Invited Symposium Speaker:

“Sustainable Development Goals, Can ecologists Help Them Transform Our World?, ESA Annual Meeting, Portland, OR, “Ending hunger and achieving food security through agroecology” (August 6-11, 2017)

“Eliminating the false dichotomy: the importance of human-modified landscapes for conservation plans”, ATBC Annual Meeting, Merida, Mexico, “The agroecological approach for the conservation of biodiversity at the landscape level” (July 9-14, 2017)

Invited Seminar Speaker:

Distinguished Ecologists Series, Colorado State University, “Agroecology and food sovereignty for poverty reduction and biodiversity conservation” (March 8, 2017), and “Complex ecological interaction and biological control” (March 9, 2017)

2015-2016

Plenary/Key Note Speaker:

“Student Conference in Conservation Science”, American Museum of Natural History, “Ecological Complexity in the Coffee Farm” (October, 2015)

Invited Symposium Speaker:

“Ecosystem services in shaded coffee systems” Symposium on Shade Coffee: Coffee, Agroecology and Agroforestry, University of Puerto Rico, Rio Piedras, Puerto Rico (April, 2016)

Agroecology Symposium, Universidad de Puerto Rico, Utuado, “Complex interactions in agroecosystems: Connections among trait-mediated indirect interaction.” (April, 2016)

Invited Seminar Speaker:

“Complex ecological interactions and autonomous pest control in coffee farms.” Department of Applied Ecology, North Carolina State University, Raleigh (March, 2016)

“The ant, its hemipteran, the beetle and its parasitoid: Complex ecological interactions in a tropical agroecosystems,” Department of Natural Resources and Environmental Sciences, University of Illinois, Urbana-Champaign (February, 2016)

2014-2015

Plenary/Key Note Speaker:

Manejo de Paisaje en Puerto Rico: Un Espacio de Intercambio Interdisciplinario para la Conservación y El Desarrollo Sustentable: “Agricultura y conservación de la biodiversidad: un estudio de case de los cafetales bajo sombra,” San Juan, Puerto Rico (November 6&7, 2014)

Invited Symposium Speaker:

Richard Levins Festschrift “The Truth is the Whole”: “Learning complexity through gaming”, Boston, MA (May 22-23, 2015)

“TEACH-IN + 50: End theWar Against the Planet”, Industrial Agriculture versus Small-Scale Agroecology: Which is Better for the Planet? (March, 2015)

World Wildlife Fund Fuller Symposium “Whole Planet, Full Plates, Finding Ways to Feed the Planet Sustainable”: “Biodiversity and the resilience and productivity of agriculture,” Washington, DC (November 12, 2014)

ActionAid Panel at the World Food Prize Conference “Changing Course to Feed the World in 2015: Land, Biofuels and Food Systems”: “Agroecology and the future of agriculture”, Des Moines, Iowa (October 16, 2014)

Symposium Organizer:

“100 Years of Agroecology: Pushing the Frontiers of Ecology”, Ecological Society of America Annual Meeting, Baltimore (August, 2015)

Invited Seminar Speaker:

“Interacciones ecológicas complejas y el control de plagas de café,” Instituto de Ecología, Xalapa, México (June 2015)

Kellogg Biological Station, Michigan State University: “Nature’s Matrix: beyond the land sharing/land sparing debate (October, 2014)

Department Seminar of the Department of Plant, Soil and Microbial Sciences and the Department of Horticulture, Michigan State University: “Diversity in the sciences and

the challenges of achieving a sustainable food system”
(October, 2014)

2013-2014

TED Talk:

TEDx River Rouge, Toronto: “Embracing biodiversity and complexity on the farm.” Toronto, Canada (July, 2014)

Plenary/Key Note Speaker:

The Color of Science II: The Innovation Potential of Relationships Networks: “Interactive networks in agroecosystems”, Berlin, Germany (March 2014)

Québec Center for Biodiversity Science Annual Symposium, Montreal, Quebec: “Biodiversity, Agriculture and Food Sovereignty” (December 12-13, 2013)

Invited Seminar Speaker:

Lectures on Latin American Conservation and Change: “Ecología, biodiversidad y aspectos sociales del cultivo de café”, University of Natural Resources of Vienna (BOKU), Vienna, Austria (March, 2014)

Development Conversations Lecture Series, Center for Critical Development Studies, Department of Geography, University of Toronto, Scarborough, Canada: “A conversation between Marney Isaac and Ivette Perfecto” (March, 2014)

Department Seminar of the Department of Ecology and Evolutionary Biology, University of Toronto, Toronto, Canada: “Yields and biodiversity conservation: tradeoffs or synergies?” (March, 2014)

Seminar series of the Department of Ecology and Evolutionary Biology, Columbia University, NY: “Nature’s matrix: balancing production and biodiversity in agricultural landscapes” (February, 2014)

Invited Symposium Speaker:

Science for the People Conference, University of Massachusetts, Amherst, MA: Science for the People in the World: “New World Agriculture and Ecology Group in Nicaragua” (April, 2014)

Workshop Speaker:

SESYNC Workshop on Food Security, Equity and Ecological Sustainability, Anapolis, Maryland (October 8-10, 2013)

2012-2013

Plenary/Key Note Speaker:

International Women's Coffee Alliance, III International Convention, Guatemala City, Guatemala: "Ecological complexity and biological control in coffee farms" (February 7-9, 2013)

Macalester College International Roundtable – Feeding the World: Globalization, Food and Agriculture in the 21st Century – A Call for Action, Macalester College, Saint Paul: "Agroecology and the struggle for food sovereignty in a globalized world" (October 11-12, 2012)

Invited Seminar Speaker:

Entomology Department, Cornell University, Ithaca: "Nature's matrix: conservation of biodiversity in agroecosystem" (April 10, 2013)

Biology Without Borders Seminar, Cornell University, Ithaca: "Complex ecological interactions and autonomous pest control in a coffee agroecosystem" (April 9, 2013)

Invited Symposium or Organized Oral Session Speaker:

Ecological Society of America Annual Meeting, Minneapolis, Minnesota, Organized Oral Session: Doing justice through your research, "The responsibilities of ecologists: Reflections on 30 year experience with the New World Agriculture and Ecology Group" (August 4-9, 2013)

Ecological Society of America Annual Meeting, Minneapolis, Minnesota, Ignite Session: Bridging the gap between basic science and applied problem-solving, "Playing with ecological complexity" (August 4-9, 2013)

Association of Tropical Biology and Conservation, Annual Meeting, San Jose Costa Rica: "Let's play Azteca: Linking the theory and practice of agroecology through gaming" (June 23-27, 2013)

Workshop Speaker:

Contribution of Women to Agroecology Workshop, Tapachula, Mexico: "Recruitment and retention of women and minorities in the sciences" (February 25-28, 2013)

2011-2012

Plenary/Key Note Speaker:

Annual Conference of the Society for Tropical Ecology, Erlangen, Germany (February 22-25, 2012)

III Congress of the Latin American Scientific Society of Agroecology (SOCLA), Oaxtepec, Morelos, Mexico.

Understanding and Managing Ecological Novelty – Towards an Integrative Framework of the Socio-Ecological Risks of Novel

Organisms (4-6 September, 2011) Swiss Federal Institute of Technology, University of Zurich, Zurich, Switzerland.

Invited Symposium Speaker:

Agroecology and Environmental Justice: Symposium at the Annual Meeting of the Ecological Society of America, Portland, Oregon: “Greening coffee production for biodiversity conservation and socio-environmental justice in Central America” (August 6-10, 2012).

Reconciling food security, biodiversity and multiple ecosystem services in agricultural landscapes, Symposium at the Planet Under Pressure Conference, London, UK: “Agroecology, biodiversity and food security: transcending the land sparing debate” (March 25-29, 2012)

Symposium du GDR MOSAIQUE, CNRS: Evolution, Paysageres, Domestications et Agrodiversites, CNRS, Paris, France: “Ecological complexity of a biodiverse ecosystem and the ecosystem service of pest control: the case of coffee in Mexico” (December 6, 2011)

Invited Seminar Speaker:

Graduate Students Selected Speaker, Applied Biodiversity Science (IGERT) Program, Department of Ecosystem Science and Management, Texas A&M, College Station, TX

Centre d'Ecologie Fonctionnelle & Evolutive, Centre National de la Recherche Scientifique, Montpellier, France.

Departamento de Agroecología, El Colegio de la Frontera Sur. Sa Cristobal de las Casas, Chiapas, Mexico.

2010-2011 **Plenary/Keynote Speaker:**

Functions and Services of Biodiversity Conference (June 20-22, 2011), George August University, Gottingen, Germany.
13th Annual Bay Area Conservation Biology Symposium, Berkeley, CA

Invited Seminar Speaker:

Food Security: How Can Science and Policy Contribute, Plant Science Center and Swiss Federal Institute of Technology, University of Zurich, Zurich, Switzerland.

Graduate Students Selected Speaker, Ecology and Evolutionary Biology, University of California, Davis, CA

Department of Environmental Science, Policy and Management, University of California, Berkeley, CA

CSIRO, Entomology Division, Spatial Ecology Seminar, Brisbane, Australia

Biodiversity and Ecosystem Services, International Center for Research in Organic Food Systems (ICROFS), Denmark (seminar in Washington DC, Danish Embassy)

“Biodiversity in the coffee agroecosystem”
Bennington College, North Bennington, VT.

Invited Workshop Participant:

Land Use Intensification and Biodiversity Conservation, CSIRO,
Ecosystem Science, Canberra, Australia.

Invited Symposium Speaker:

Semana de Seguridad Alimentaria en Puerto Rico, Universidad de Puerto Rico, Recinto de Mayagüez, Mayagüez, Puerto Rico.

2009-2010

Plenary/Keynote Speaker:

Forum on Agroecology and the Conservation of Biodiversity,
Autonomous University of Chapingo, Mexico (June, 2010)

Invited Symposium Speaker:

Climate Justice, Ecological Society of America, Pittsburgh, PA.

Co-Organizer and Speaker-Symposium:

Global Warming, Smallholder Agriculture and Environmental Justice:
Making Critical Connections, Ecological Society of America,
Pittsburgh, PA.

Invited Seminar Speaker:

Graduate Student Selected Speaker, School of Environment and Natural Resources, Ohio State University, Columbus, OH.

2008-2009

Plenary/Keynote Speaker:

2nd Annual Meeting of Scientific Society of Agroecology of Latin America (SOCLA), Curitiba, Brazil (October 2009)

McGovern Conference “Hungry for Green: Feeding the World Sustainable” Dakota Wesleyan University, Mitchell, SD.

Invited Seminars Speaker:

Distinguished Scientist Seminar Series, Ecosystem Center of the Marine Biological Laboratory, Woods Hole, MA

Departmental Seminar, EEB, University of Michigan

University of Queensland and the Australia’s Commonwealth

Scientific and Industrial Research Organization

Department of Ecology, Universidad Autónoma de Barcelona, Barcelona, España

Invited Symposium Speaker:

Landscape Ecology and Poverty, International Association of Landscape Ecology, Snowbird, Utah
Land-use Change at Local and Landscape Scales, Association of Tropical Biology and Conservation, Marburg, Germany.

Post Doctoral Fellows

Kimberly Williams-Guillén (2006-2008)

Dr. Jarvas Queiroz (2007-2008)

Nils McCune (2017-2018)

Current activity:

Director of Conservation Science, Paso Pacífico

Associate Professor, Universidad Federal Rural de Rio de Janeiro, Seropedica, Brazil

Graduate Students

Ph.D. Students (Committee Chair)

Graduated:

Dr. Patrick Christie (1999)

Dr. Helda Morales (2000)

Dr. Brent Blair (2002)

Dr. Thomas V. Dietsch (co-chair) (2003)

Dr. Inge Armbrecht (2003)

Dr. Stacy Philpott (co-chair) (2004)

Dr. Miguel Antonio Garcia (2004)

Dr. Virginia Nickerson (co-chair) 2006

Dr. Brenda B. Lin (2006)

Dr. Evandro do Nascimento Silva (2006)

Dr. Shinsuke Uno (2007)

Dr. Linda Marin (2014)

Dr. David Gonthier (2014)

Dr. Hsunyi Hsieh (2015)

Current activity:

Associate Professor (U. of Washington)

Investigador Titular A (ECOSUR, Mexico) (equivalent to Associate Professor)

Associate Professor (Xavier University)

Migratory Bird Biologist (US Fish and Wildlife)

Associate Professor (Universidad del Valle, Colombia)

Professor, Associate University of California, Santa Cruz

Director Fish and Wildlife (Department of Natural Resources, Puerto Rico)

Outreach Coordinator, Center for Sustainable Agriculture, University of Vermont

Interdisciplinary Ecologist and Science Policy Researcher (Commonwealth Scientific and Industrial Research Organization [CSIRO], Australia)

Associate Professor and Chief of Staff of the Provost Office, Universidade Estadual de Santa Ana, Bahia, Brazil

Lecturer, Hosei University, Japan

Postdoctoral Fellows, Colegio de la Frontera Sur, San Cristobal, Chiapas, Mexico

Assistant Professor, University of Kentucky, Louisville, KY

Data Scientists Offices, Royal Belgian Institute of Natural Sciences

Maria Carolina Simao (2016)

Environmental Horticulture Project
Coordinator, The IR-4 Project, Rutgers
School of Environmental and Biological
Sciences.

Current:

Lauren Schmitt
Jonathan Morris

Former Visiting Ph.D. Students from Abroad

Lorena Soto Pinto (2000-2001, Mexico)
Ethel Peternelli (2006-2007, Brazil)
Iracenir Dos Santos (2009-2010, Brazil)
Juliana Cepeda (2012, Colombia)

Master Students (Committee Chair)

Graduated:

Maria Antonia Mallona

Janine Bologna
Patrick Christie
Brent Blair
John Soluri
David Gisaru
Dana Roth

Current activity:

Director of Environmental Program (Peace
Corps, Nicaragua)

unknown

Associate Professor (U. of Washington)

Associate Professor (Xavier University)

Associate Professor (Carnegie-Mellon)

unknown

Southwest Assistant Regional Director for
Science Applications, Landscape
Conservation Cooperative, US Fish and
Wildlife

Staff Scientist, Washington Toxics
Coalition, Seattle, Washington

Investigador Titular A, ECOSUR, Mexico
(equivalent to Associate Professor)

Outreach Coordinator, Center for
Sustainable Agriculture, University of
Vermont

Laboratory technician, School of Public
Health, UM

Lecturer, Hosei University, Japan

Director of Strategic Partnerships, The
Nature Conservancy

Program Officer, David and Lucile Packard
Foundation

Department of Conservation and Recreation,
State of Massachusetts

Erika Schreder

Bruce Ferguson

Virginia Nickerson

Katie Richter

Shinsuke Uno

Alexandre Mas

Sergio Knaebel (co-chair)

Sara Cohen

Elizabeth Witt

Sandra Rodriguez	Environmental Lawyer
Darci Andresen	Northwest Account Manager/Integrated Promotions, RadyMade Magazine
Jeremy Moghtader	Farm Manager, Campus Farm University of Michigan
Monique Barry	Ford Motor Company
Katia Aviles	Director, Office of Model Forest, Puerto Rico
Hsunyi Hsieh	Data Analyst, Belgium
Saul Alarcón	Wildlands Program Manager, Wildcoast
Stefanie Krantz	Wildlife Biologist, Garcia and Associates
Andrea Samulón	Rainforest Action Network
Claudette Juska (practicum)	
Cynthia Koenig (practicum)	
Mariana Alvarez (practicum)	
Lorcan French (practicum)	
Katie Goodall	Faculty, School for Field Studies
Casey Taylor	Assistant Professor, School for Field Studies
Jesse Lewis	Independent artist and filmmaker.
Julie Cotton	Academic Specialist in Sustainable Agriculture and Food Systems, MSU
Geoffrey Michael	Manager and co-owner of Big Sky Recording Studio
Heather Briggs	Postdoctoral Fellow, Harvard University
Bob Barretto	PhD student University of Hawaii
Andy MacDonald	Assistant Research Faculty UC Santa Barbara
Kate Ennis	PhD student at University California, Santa Cruz
Stacy Mates	Nursery Manager, Ann Arbor Seed Company, Ann Arbor
Jane Skillman (2014)	Data Analysis, Ducks Unlimited
Jane Ramfert (2014)	Laboratory Technician, Univ. of Wisconsin
Kevin Li (2015)	PhD student, Georg August Universität, Göttingen, Germany
Kaleigh Fisher (2016)	PhD student, University of California, Riverside
Elisabeth Dorgay (2016)	
Jonnathan Morris (2016)	PhD student, University of Michigan
Zu D. Tan (2016)	PhD student, National University of Singapore
Lillie Kline (2016)	
Hailey Schurr (2016)	
Eliot Jackson (2017)	Instructor, Eastern Michigan University
Bolivar Aponte (2018)	PhD student, Tulane University
Jessica Robinson (2018)	

Austin Martin (2019)
Sarah Barney (2019)
Iris Seraeny Rivera Salinas (2019)
Princejonathan Pruitt (2019)
Arora Venugopal (2019)
Linnea Carver (2019)

Lecturer, Eastern University, Philadelphia
Farmer
PhD student, University of Michigan

Master Students (Committee Chair)

Current:

Kris Harmon (thesis)
Fern MacDougal (thesis)
Hagan Capnerhurst (thesis)

Master Project (Faculty Advisor)

Completed:

“Toward a Sustainable Food System in
Washtenaw County, Michigan” (2004)

Michael diRamiro
Adam Martin
Beth Murphy
Lea Katz
Garry Davis
Kanao Horigome

“Eating Our Way to a Sustainable
Future: Developing a Local Food
System in Southeastern Michigan”
(2006)

Laura E. Kaminski
Deirdra Stockmann
Ann J. Vail
Ken Anderson
Karl Buck

“Re-examining the relationship between
conservation and community in
Jamaica’s Blue and John Crow
Mountains National Park: Managing for
sustainability” (2008)

Anna Ruszai
Jesse Worker
Elizabeth Nellums
Jesse Lewis
Danielle Gartner

“Expanding Food Bank Impacts” (2015)

Alice Bowe
Kelsea Ballantyne
Rebecca Baylor
Jana Miller

“Assessing the performance of a small-scale
agroforestry projects in Nicaragua” (2016)

Beth Dorgay
Rachel Muelle

Andrew Klooster

“Conservation and economic vitalization through silvopastures in Nicaragua” (2017)

Lillie Kline
John Andreoni
Astrid Santiago
Alex Truelove

(Co-advise with Catherine Rinseng)
“Bijagual river watershed, Costa Rica: Improving watershed health and engaging local communities in monitoring and outreach” (2018)

Wenyang Mu
Audry Pallmeyer
Walker Stinnette
Brad Weiss

(co-advise with José Alfaro and John Vandermeer)
“Biomass Residue Fueled Micro-Grid for a Rural Community in Puerto Rico” (2019)

Davied Cordero
Michelle Farhat
Gabriela Porras
Princejonathan Pruit
Bret Fickes
Selim Sardag

Master Project (Faculty Advisor)

Current:

(co-advise with José Alfaro and John Vandermeer)
“Biomass Residue Fueled Micro-Grid for a Rural Community in Puerto Rico”

Juan Jhong Chun
Muzna Raheel
Stephen Barr

Undergraduate Honor Thesis Advisees

Joseph Mascaro
Jackie Silverman
Alex Bajcz
Maria Estelí Jiménez Soto (Universidad de Chapingo)

Other Undergraduate Advisees

Zachary Hajian-Forooshani
Ryan Kuesel
Raymond Balaguer (University of Puerto Rico, Mayaguez)
Magdalena Cruz

Courses

Undergraduate:

ENVIRON 270: Our Common Future: The Ecology, Economics and Ethics of Sustainable Development
ENVIRON 281: General Ecology
ENVIRON 316: Introduction to Food Systems
ENVIRON 318: Food, Land and Society
ENVIRON 319: Study Abroad component of Food, Land and Society
Graduate:
NRE 556: Field Ecology
NRE 553: Diverse Farming Systems in Theory and Practice
NRE 639: Graduate Seminar on Biodiversity in Agroecosystems; Graduate Seminar on Food Sovereignty

Professional Affiliations

Ecological Society of America; American Association for the Advancement of Science; Association of Tropical Biology and Conservation; Latin American Studies Association; International Union for the Study of Social Insects.

Editorial Duties

Review Editor for:

EcoHealth (2010 to present)
Journal of Sustainable Agriculture (2010 to present)
Ecology (2011 to present)
Ecological Monographs (2011 to present)
Myrmecological News (2012 to present)

Specialty Chief Editor for Agroecology and Ecosystem Services for:

Frontiers in Sustainable Food Systems

Member of the Editorial Board of the British Ecological Society

/ Cambridge University Press Ecological Reviews Book Series

Guest editor for:

Sustainability (Special issue on sustainability and urban agriculture)

Manuscripts Reviewed for:

Proceeding of the National Academy of Science, Ecology Letters, Proceedings of the Royal Society B, Climate Change, Nature, Nature Sustainability, Science, Biotropica, Bulletin of Entomological Research, Nature, Ecological Entomology, Environmental Entomology, American Naturalist, Behavioral Ecology and Sociobiology, Conservation Biology, Ecology, Ecological Applications, Science, Oecologia, Oikos, Basic and Applied Ecology, Canadian Entomology, Biological Control, Agriculture Ecosystems and Environment, Ecologia Austral, Insectes Sociaux, Natural Resources and Society, Manejo Integrado de Plagas, Renewable Agriculture and Sustainable Food Systems, Agriculture and Forest Entomology, PLoS One, BioScience, Biological Conservation

Grants Reviewed for:

National Science Foundation, National Geographic Society, Organization of Tropical Studies, Pacific Rim Research Program of the University of California, Office of the Vice President for Research of the University of Michigan, US Department of Agriculture, Latin American and Caribbean Studies Program, University of Michigan. Regular panel member for the NSF-Ecology Panel.

Other Professional Activities

Coordinator for the Conservation Ecology Field of Study, SNRE (2014-present)
Coordinating Leading Author of the International Assessment of Agricultural Knowledge, Science and Technology (IAASTD) 2006-2008
Track Chair for the Environmental Issues and Environmental Justice Track for the Latin American Association (LASA) 2006 Annual Meeting.
Secretary and Treasurer for the Agroecology Section of the Ecological Society of America (2001-2003)
Member of the New World Agriculture and Ecology Group
Member of Science for the People

Outreach and Other Activities

Board Member: Pesticide Action Network-North America (2000-2002)
Board Chair: Pesticide Action Network North America (2003-2004)
Participated as keynote speaker at the Sustainable Agricultural Commission of La Via Campesina (2010 in Malaga, Spain, 2011 in Guatemala City, Guatemala)
Member for 37 years of the New World Agriculture and Ecology Group (NWAEG)
Collaborate with Dr. Luis Garcia Barrios and John Vandermeer in the development of the educational board game “Azteca Chess”, that communicates the concept of ecological complexity in agroecosystems.
Participant for three consecutive years in BioBlitz D-Town Farm (2015-2017)
Co-organizer and participant for two consecutive years of Eco-Dia in Finca Irlanda (2017-2018)