

**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**

2020 to present James E. Crowfoot Collegiate Professor of Environmental Justice  
2009 to 2020 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.  
2011 to 2012 Visiting Faculty, Centre d'Ecologie Fonctionnelle et Evolutive,  
Université de Montpellier, Montpellier, France.  
2003 to present Associate Faculty, Program in the Environment, University of  
Michigan  
2004 to 2005 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**

- 2023 Elected Member of the American Academy of Arts and Sciences
- 2023 Doctoral Honorary Degree in Biology (*Honoris Causa*), Universidad Sagrado Corazón, Puerto Rico
- 2022 Elected Member of the National Academy of Sciences
- 2023-present Bunyan Bryant Collegiate Professor of Environmental Justice
- 2020-2023 James E. Crowfoot Collegiate Professor of Environmental Justice
- 2019-2023 Elected Senior Fellow of the Michigan Society of Fellows
- 2015 Elected Senior Fellow of the Ecological Society of America
- 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)
- 2009-2020 George W. Pack Professorship (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 or Co-PI)**

2021-2026	Transformative Food Systems Fellows Program: Cultivating Resilient Agriculture (USDA-NIFA- Food and Agricultural Sciences National
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- Needs Graduate and Postgraduate Fellowship (NNF) Grants Program, I. Perfecto, PI; J. Blesh, B. O'Neil, M. Jain and L. Hoey, Co-PIs (\$262,500)
- 2021-2026 Transformative Food Systems Fellows Program: Democratizing Planning and Enabling Public Health (USDA-NIFA- Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowship (NNF) Grants Program, L. Hoey, PI; I. Perfecto, A. Jones, Co-PIs (\$262,500)
- 2019-2021 Fusing satellite and drone data with GIS to create new analytical decision support tools for varying farm types (USDA-NIFA) K. Atkins, PI; I. Perfecto, J. Vandermeer, S. Brines, Co-PIs (\$243,959)
- 2019-2022 The ecology of critical transitions in pest control in the coffee agroecosystem (National Science Foundation) I. Perfecto, PI; J. Vandermeer, Co-PI (\$699,875)
- 2018-2020 Reimagining Puerto Rico's energy and food systems through community engagement (Graham Sustainability Institute Transformation Grant) I. Perfecto, PI; J. Alfaro, J. Vandermeer, J. Lugo, M. Ramos, O. Ramos, L. Salecetti, Y. Sanchez, Co-PIs (\$302,291)
- 2018-2020 Evaluating Hurricane Damage and Resilience in Coffee Agroecosystems in Puerto Rico (USDA-NIFA) I. Perfecto, PI; J. Vandermeer, J. Lugo, Co-PIs (\$100,000)
- 2018-2019 Sustainability with an equity lens: cultivating an inclusive core curriculum and culture in the School for Environment and Sustainability (Rackham Graduate School) I. Perfecto, PI; V. Cambell-Arvai, S. 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), I. Perfecto, PI; J. Vandermeer, Co-PI (\$5,000)
- 2017-2020 Understanding multifunctional landscapes within the Model Forest of Puerto Rico (USDA-NIFA), I. Perfecto, PI; J. Vandermee, J. 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) I. Perfecto, PI; R. Grese, J. Blesh, K. Peterson, S. 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) I. Perfecto, PI; J. 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. Vandermeer, J. and I. **Perfecto**. *Forthcoming. The Dialectical Agroecologist*, Cambridge University Press, Cambridge, UK.
2. Dooley K., Keith H., Larson A., Catacora-Vargas G., Carton W., Christiansen K.L., Enokenwa Baa O., Frechette A., Hugh S., Ivetic N., Lim L.C., Lund J.F., Luqman M., Mackey B., Monterroso I., Ojha H., **Perfecto** I., Riamit K., Robiou du Pont Y., Young V. 2022. The Land Gap Report 2022. Available at: <https://www.landgap.org/>
3. **Perfecto**, I., J. Vandermeer and A. Wright (Revised Edition). 2019. *Nature's Matrix: Linking Agriculture, Conservation and Food Sovereignty*, Routledge, London.
4. Vandermeer, H. and I. **Perfecto**. 2017. *Ecological Complexity for Agroecology*, Routledge, London.
5. **Perfecto**, I. and J. Vandermeer. 2015. *Coffee Agroecology*, Routledge, London.
6. **Perfecto**, I., J. Vandermeer and A. Wright. 2009. *Nature's Matrix: Linking Agriculture, Conservation and Food Sovereignty*, Routledge, London.
7. Vandermeer, J. H. and I. **Perfecto**. 2005 (2<sup>nd</sup> Edition). *A Breakfast of Biodiversity: The Political Ecology of Rain Forest Deforestation*, Institute for Food Development Policy, San Francisco, CA
8. Vandermeer, J. H. and I. **Perfecto**. 1995. *A Breakfast of Biodiversity: The Truth about Rain Forest Destruction*, Institute for Food Development Policy, San Francisco, CA

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

1. **Perfecto**, I. and J. Vandermeer. *In press*. Reflections on research agendas on agroecology: In search of a practical guide. *Journal of Agriculture, Food Systems, and Community Development*.
2. Vandermeer, J. and I. **Perfecto**. 2024 Combining intransitive and higher order effects in a coupled oscillator framework: a case study of an ant community. *Ecology*, 105(2), pp.e4218. <https://doi.org/10.1002/ecy.4218>
3. Rivera\*, I.S., A. Irizarry\*, K. Maldonado\*, and I. **Perfecto**. 2023. Predator interference prevents biological control. *Basic and Applied Ecology*. 74, pp.35-39. <https://doi.org/10.1016/j.baae.2023.11.006>
4. **Perfecto**, I, L. F. Chaves, G. M. Fitch\*, Z. Hajian-Forooshani\*, B. Iuliano, K. Li\*, N. Medina\*, J. Morris\*, B. Otero Jiménez\*, I. S. Rivera-Salinas\*, C. Su\*, J. Vandermeer, A. White\*, K. Williams-Guillén. 2023. Zoonosis and the agricultural matrix. *One Earth* 6(9): 1131-1142. <https://doi.org/10.1016/j.oneear.2023.08.010>

5. Wildtruth\*, F. and I. **Perfecto**. 2023. Canopy connectivity increases arboreal ant species density and influences assembly in a shaded coffee agroecosystem. *Biotropica* 55 (6): 1106-1113. <https://doi.org/10.1111/btp.13255>
6. Lugo Perez, J., Z. Hajian-Forooshani\*, J. Vandermeer, and I. **Perfecto**. 2023. The importance of shade trees in promoting carbon storage in the coffee agroforest system of Puerto Rico. *Agriculture Ecosystems and Environment* 355: 108594. <https://doi.org/10.1016/j.agee.2023.108594>
7. Li\*, K., Z. Hajian-Forooshani\*, J. Vandermeer and I. **Perfecto**. 2023. Coffee leaf rust (*Hemileia vastatrix*) is spread by rain splash from infected leaf litter in a semi-controlled experiment. *Journal of Plant Phytopathology* 105: 667-672. <https://doi.org/10.1007/s42161-023-01404-2>
8. Vandermeer, J. and I. **Perfecto**. 2023. Intransitivity as a dynamic assembly engine of competitive communities. *Proceedings of the National Academy of Science* 120 (15) e2217372120. [doi.org/10.1073/pnas.2217372120](https://doi.org/10.1073/pnas.2217372120)
9. **Perfecto**, I. and S. M. Philpott. 2023. Ants and ecosystem functions and services in urban areas: reflection on a diverse literature. *Myrmecological News* 33: 103-122. [dio.org/10.25849/myrmecol.news\\_033:103](https://doi.org/10.25849/myrmecol.news_033:103)
10. Shepon, A, T. Wu, C. Kremen, T. Dayan, I. **Perfecto**, C. Golden. 2023. Exploring future food systems in the context of emerging zoonotic diseases using scenario exploration. *Lancet Planetary Health* 7(4): E329-E335. [doi.org/10.1016/S2542-5196\(23\)00007-4](https://doi.org/10.1016/S2542-5196(23)00007-4)
11. Aponte, B. and I. **Perfecto**. 2023. Shaded-coffee agroecosystem supports high levels of ant biodiversity regardless of shade tree species planted by farmers. *Ecosphere* 14(2): e-4442. [doi.org/10.1002/ecs2.4442](https://doi.org/10.1002/ecs2.4442)
12. Hajian-Forooshani\*, Z., I. **Perfecto**, J. Vandermeer. 2023. Novel community assembly and the control of fungal pathogen in coffee agroecosystems. *Biological Control* 117: 105099. <https://doi.org/10.1016/j.biocontrol.2022.105099>
13. Avelino, J., S. Gagliardi, I. **Perfecto**., M. Isaac, T. Liebig, J. Vandermeer, I. Merle, Z. Hajian-Forooshani\*, N. Motisi. 2023. Tree effects on coffee leaf rust at field and landscape scale. *Plant Disease* 107(2): 1804-FE. <https://doi.org/10.1094/PDIS-08-21-1804-FE>
14. Morris\*, J and I. **Perfecto**. 2022. A dominant non-consumptive effect mediates pest control and multi-predator interactions in a coffee agroecosystem. *Ecological Applications* 32(7):e2653. <https://doi.org/10.1002/eap.2653>
15. Hsieh\*, H.Y., J. Vandermeer and I. **Perfecto**. 2022. Higher order interactions affect survival and sex ratio of a predatory beetle. *Science Reports* 12: 19378 <https://doi.org/10.1038/s41598-022-23763-z>
16. Mayorga\*, I., J. L. Vargas\*, Z. Hajian-Forooshani\*, J. Lugo Perez, J. Vandermeer, I. **Perfecto**. 2022. Tradeoffs and synergies among ecosystem services, biodiversity conservation, and food security in coffee agroforestry. *Frontiers in Forests and Global Change* 5: <https://doi.org/10.3389/ffgc.2022.690164>
17. Capnerhurst\*, H., A. P. Fischer, and I. **Perfecto**. 2022. Invasion adaptation: A socio-ecological assessment of cherry growers' adaptation potential to spotted wing drosophila. *Human Ecology* 50(4): 711-723.

18. Vandermeer, J., J. Flores\*, J. Longmeyer\*, I. **Perfecto**. 2022. Spatiotemporal foraging dynamics of *Solenopsis invicta* and the spatial structure of interspecific competition. *Environmental Entomology* <https://doi.org/10.1093/ee/nvac058>
19. Anjos, D., A. Tena, V.J. Arleu, R. Carvalho, H. M. Torezan-Silingardi, K. Del-Claro, I. **Perfecto**. 2022. Global effects of ants on pest control: boosted in agroforestry. *Proceedings of the Royal Society B*. 287: 20221316 <https://doi.org/10.1098/rspb.2022.1316>
20. Li\*, K. Hajian-Forooshani\*, C. Su\*, I. **Perfecto** and J. Vandermeer. 2022. Climate change and resistant varieties mediate critical transition in coffee rust disease. *Scientific Reports* 12: 1564 <https://doi.org/10.1038/s41598-022-05362-0>
21. Benitez, M., J. A. Rosell, I. **Perfecto**. 2022. Mathematical modelling and complex systems in agroecology (Editorial). *Frontiers in Sustainable Food Systems* 560. <https://doi.org/10.3389/fsufs.2022.829551>
22. Iverson\*, A., R. Burham, I. **Perfecto**, N. Vandenberg\* and J. Vandermeer. 2022. A tropical lady beetle, *Diomus lupusapudoves* (Coleoptera: Coccinellidae), deceives potential enemies to predate an ant-protected coffee pest through putative chemical mimicry. *International Journal of Tropical Insect Science* 42(1): 947-953. <https://doi.org/10.1007/s42690-021-00621-5>
23. Jedlicka, J. A., S.M. Philpott, M.L. Baena Hurtado, P. Bichier, T.V. Dietsch, L. Hayward, S. Langdrige, I. **Perfecto**, R. Greenberg. 2021. Differences in insectivore bird diets in coffee agroecosystems driven by obligate or generalist guild, shade management, season, and year. *PeerJ* 9:e12296 <https://doi.org/10.7717/peerj.12296>
24. Newson\*, J., J. Vandermeer and I. **Perfecto**. 2021. Differential effects of ants as biological control of the coffee berry borer in Puerto Rico. *Biological Control* 160: 104666. <https://doi.org/10.1016/j.biocontrol.2021.104666>
25. González González\*, C, E. Mora Van Cauwelaert\*, D. Boyer, I. **Perfecto**, J. Vandermeer, M. Benítez. 2021. High-order interactions maintain or enhance structural robustness of a coffee agroecosystem network. *Ecological Complexity* 47: 100951. <https://doi.org/10.1016/j.ecocom.2021.100951>
26. Soley, F. and I. **Perfecto**. 2021. A way forward for biodiversity conservation: high quality landscapes. Submitted to *Trends in Ecology and Evolution* 36(9): 770-773. <https://doi.org/10.1016/j.tree.2021.04.012>
27. Irizarry\*, A., J. A. Collazo, J. Vandermeer, and I. **Perfecto**. 2021. Coffee plantations, hurricanes and avian resiliency: insights from local occupancy, colonization and extinction rates in Puerto Rico. *Global Ecology and Conservation*, 27: e01579. <https://doi.org/10.1016/j.gecco.2021.e01579>
28. Schmitt\*, L., R. Greenberg, G. Ibarra Núñez, P. Bichier, C. Gordon, I. **Perfecto**. 2021. Cascading effects of birds and bats in a shaded coffee agroforestry system. *Frontiers in Sustainable Food Systems*, 27 April, 2021. <https://doi.org/10.3389/fsufs.2021.512998>
29. Iuliano\*, B., A. Cartmill, S. Davis, A. Kerr, I. **Perfecto**. 2021 Human Dimensions: Agroecology for just and sustainable food systems. *Bulletin of the Ecological Society of America*, 102 (3): e01871. <https://doi.org/10.1002/bes2.1871>



30. Davies et al.,... **I. Perfecto**, ... (157 authors). 2021. Forest GEO: Understanding forest diversity and dynamics through a global observatory network. *Biological Conservation* 253, 108907. <https://doi.org/10.1016/j.biocon.2020.108907>
31. Vandermeer, J., Z. Hajian-Forooshani\*, N. Medina\* and **I. Perfecto**. 2021. New forms of structure in ecosystems revealed with the Kuramoto model. *Royal Society Open Science*. 8: 210122 <https://doi.org/10.1098/rsos.210122>
32. Schmitt\*, L. and **I. Perfecto**. 2021. Coffee leaf litter decomposition: short term home field advantage in shaded coffee agroecosystems. *Applied Soil Ecology* 161 May 2021, 103854 <https://doi.org/10.1016/j.apsoil.2020.103854>
33. Vandermeer, J. and **I. Perfecto**. 2020. Endogenous spatial pattern formation from two intersecting ecological mechanisms: the dynamic coexistence of two invasive ant species in Puerto Rico. *Proceedings of the Royal Society B*. 287, no. 1936 (2020): 20202214. <https://doi.org/10.1098/rspb.2020.2214>
34. **Perfecto**, I. and J. Vandermeer. 2020. The assembly and importance of a novel ecosystem: The ant community of coffee farms in Puerto Rico. *Ecology and Evolution* 10(23): 12650-12621. (<https://doi.org/10.1002/ece3.6785>)
35. Schmitt\*, L., B. Aponte\*, **I. Perfecto**. 2020. Evaluating community effects of a keystone ant, *Azteca sericeasur*, on *Inga micheliana* leaf litter decomposition in a shaded coffee agro-ecosystem. *Biotropica* 52(6): 1253-1261. <https://doi.org/10.1111/btp.12833>
36. **Perfecto**, I., Z. Hajian-Forooshani\*, A. White\* and J. Vandermeer. 2020. Ecological complexity and contingency: ants and lizards affect biological control of the coffee leaf miner in Puerto Rico. *Agriculture, Ecosystems and Environment* 305: 107104. <https://doi.org/10.1016/j.agee.2020.107104>
37. Wagner, T. M. et al (14 authors total). 2020. Integrating agroecological production in a robust post-2020 global biodiversity framework. *Nature Ecology & Evolution* 4: 1150-1152. (<https://doi.org/10.1038/s41559-020-1262-y>)
38. Allen, D., C. W. Dick, R. J. Burnham, **I. Perfecto** and J. Vandermeer. 2020. The Michigan Big Woods Research Plot at the Edwin S. George Reserve, Pickney, Michigan. *Miscellaneous Publications of the Museum of Zoology, University of Michigan*, 207. <http://hdl.handle.net/2027.42/156251>
39. Maas, B., et al. (18 authors total) 2020. Calling on the ecology leadership to support retention and diversity among early-career scientist during COVID-19. *Nature Ecology & Evolution* June 3 (Vol 4): 997-998. (<https://doi.org/10.1038/s41559-020-1233-3>).
40. Schmitt\*, L. and **I. Perfecto**. 2020. Who gives a flux? Synchronous flowering of *Coffea arabica* accelerates leaf litter decomposition. *Ecosphere* 11(7) e03186. <https://doi.org/10.1002/ecs2.3186>
41. Hajian-Forooshani\*, Z., J. Vandermeer, **I. Perfecto**. 2020. Insight from excrement: invasive gastropod shift diet to consume the coffee leaf rust and its mycoparasite. *Ecology*, Early View (<https://doi.org/10.1002/ecy.2966>)
42. **Perfecto**, **I.** and J. Vandermeer. 2020. 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* 50 (1): 43-47. <https://doi.org/10.18475/cjos.v50i1.a6> Highlighted in Project Biodiversify [www.projectbiodiversify.org/ivette-perfecto](http://www.projectbiodiversify.org/ivette-perfecto)
43. Yifan\*, H., J. P. Baldivieso, A. Agrawal, I. **Perfecto**. 2019. 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* November 2019 (DOI: <https://doi.org/10.1525/cse.2019.sc.946307>)
  44. 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. Vaidya, K. Williams-Guillen, S. Yitbarek, S. Uno, A. Zemenick, S. M. Philpott, I. **Perfecto**. 2019. The community ecology of herbivore regulation in an agroecosystem: Lessons from complex systems. *BioScience* 69 (12): 974-996. <https://doi.org/10.1093/biosci/biz127>
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31. **Perfecto, I.** and B. Velázquez. 1992. Farm workers: amongst the least protected. *EPA Journal* 18: 13-14.
32. 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.
33. Vandermeer, J. H., **I. Perfecto**, M. Reeves, and N. Zamora. 1991. Los bosques costeros tres años después del huracán Joan. (The Caribbean forests of Nicaragua, three years after Hurricane Joan). *Wani* 11: 78-102.

34. 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.
35. 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 (journal asked for revisions and resubmission)**

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*.
2. Klenke\*, G., S. Brines, N. Hernandez, K. Li, R. Glancy, J. Cabrera, B. Neal, K. Adkins, R. Schroeder, **I. Perfecto**. Farmer Perceptions of Land Cover Classification of UAS Imagery of Coffee Agroecosystems in Puerto Rico. Submitted to *Geographies* (3/2024)
3. Vandermeer, J., Z. Hajjian-Forooshani, I.S. Rivera\*, and **I. Perfecto**. Pest control in Coffee: A tri-trophic comparison between a mainland and an island agroecosystem. Solicited book chapter (Submitted 3/2023).
4. Adkins, K.A., K. Li, M.N. Blasko, J.L. Cabrera, B.H. Neal, T.Y. James, Z. Hajjian-Forooshani, S. Brines, and **I. Perfecto**. A simple mechanism for UAV bioaerosol sampling in the lower atmosphere. Submitted to *Landscape Ecology* (3/2024)

### **Manuscripts in Review**

1. **Perfecto, I.**, C. Badgley, J. Blesh, B. Butt, M. J. Chappell, L. Hoey, A. Jones, K. Li, J. Vandermeer, K. Whyte. A Whole-of Earth approach to halting biodiversity loss. Submitted to *Nature Sustainability* (4/2024)
2. Ong, T., A. Román-Alcalá, E. Jimenez-Soto, E., Jackson, **I. Perfecto**, and H. Duff. Gaining momentum for agroecology in the US: Coordination between

- science, practice, and movement are critical for food systems transformation. Submitted to *Nature Food* (4/2024)
3. Medina\*, N., L. Schmitt\*, **I. Perfecto**, and J. Vandermeer. Above- and below-ground links mediated by arboreal ants and host tree modify soil aggregation scaling, infiltration, and chemistry. Submitted to *Geoderma* (11/2023)
  4. Martinez-Núñez, C., E. Velado, J. Avelino, P.J. Rey, G.M. ten Hoopen, G. Pe'er, Y. Zou, A. Rusch, C. Staver, T.S. Priyadarshana, D. Sonwa, D. Buchori, L.A. Garibaldi, E.D. Concepción, O.T. Lewis, **I. Perfecto**, I. Bartolomeus. Tailored policies for perennial crops are key to progress on Sustainable Development Goals. Submitted to *Nature Sustainability* (2/2024)
  5. **Perfecto, I.**, H. Sticpewich\*, J. Vandermeer. Competitive dominance constrained by spatial structure: bi-stability in the case of an ant community in a tropical ecosystem. Submitted to *The American Naturalist* (2/2024)
  6. Hajian-Forooshani, Z., I. S. Rivera Salinas, **I. Perfecto**, and J. Vandermeer. The population dynamics of clustered consumer-resource spatial patterns: insights from the demographics of a Turing mechanism. Submitted to *Proceeding of the National Academy of Science* (4/2024)

### **Invited Plenary/Keynote, Symposia, and Seminars (Last 15 years)**

2023-2024    **Plenary/Keynote Speaker:**  
 “Biodiversity and Autonomous Pest Control in the Coffee Agroforestry System,” XX National Plant Biochemistry and Molecular Biology Congress; 3<sup>rd</sup> Meeting of the Mexico Section of the American Society of Plant Biology; 13<sup>th</sup> Mexico-US Plant Biology Symposium, Oaxaca, Mexico (October 16, 2023)

**Invited Seminar/Colloquium/Conference Speaker:**  
 “Agriculture at a Crossroads,” Faculty Seminar, SEAS, University of Michigan (Feb 22, 2024)  
 “Intransitivity as a Dynamic Assembly Engine in Competitive Communities,” Faculty Seminar, Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ. (March 21, 2024)  
 “A Framework for examining biodiversity and the food question,” Ostrom Workshop Colloquium, Indiana University, Bloomington, IN. (March 25, 2024)

2022-2023    **Plenary/Keynote Speaker:**  
 “Food Systems at a Crossroads: Producing Food and Conserving our Planet,” 2023 Odum Lecture, Odum School of Ecology, University of Georgia, GA (April 4, 2023).

“Food Systems at a Crossroad,” 2023 Storer Lecture in Biological Sciences, University of California, Davis, Davis, CA (March 15, 2023).

**Invited Seminar/Colloquium/Conference Speaker:**

- “Biodiversity and Autonomous Pest Control in Agroecosystems,” Research Briefings, National Academy of Science Annual Conference, National Academy of Science, Washington, DC (May 27, 2023)
- “Nature’s Matrix and the Struggle for a New Agriculture,” Histories and Geographies of Planetary Environmental Emergencies Symposium, Committee on Environment, Geography and Urbanization (CEGU), University of Chicago, Chicago, IL (April 21, 2023).
- “Intransitivity as a Dynamic Assembly Engine of Competitive Communities,” International Forum on Advanced Environmental Science and Technology (iFAST), Institute for Environmental Geonomics, University of Oklahoma, Norman, Oklahoma (virtual presentation) (April 12, 2023)
- “Using natural history and theory to understand the maintenance of ant diversity in a tropical agroecosystem,” University of California-Davis, Davis, CA (March 16, 2023).
- “Biodiversity, Coffee Production, and Dignified Livelihoods Under a Globalized Economy,” University of Michigan Poverty Solutions Lecture Series, University of Michigan, Ann Arbor, MI (October 20, 2022).
- “Complex ecological interactions and autonomous pest control in Neotropical coffee agroecosystems,” International Agroecological Crop Protection Initiative Webinar, *On line*, September 19, 2023.

**Conference/Symposium Speaker:**

- “The Matrix Matters: A New Approach for Understanding Zoonoses in Agricultural Landscapes,” Zoonoses and Land Use Systems Symposium, Annual Meeting of the Ecological Society of America, Portland, OR (August 18, 2022).

**Invited Workshop Speaker:**

- “Biodiversity and Implications for Food Production,” National Academy of Science China-US Engagement on Sustainability: Workshop I-Sustainability and Biodiversity, National Academy of Science, Washington DC (virtual presentation) (July 28, 2022).

2021-2022 **Plenary/Keynote Speaker:**

“Agriculture and the food system at a crossroads,” 2022 Linneman Lecture in Environmental Studies, Colorado College, Colorado Spring, CO (April 26, 2022)

“Actualizando la ecología en agroecología,” Anniversary Celebration of the Agroecology Program at the Universidad Autónoma de San Luis de Potosí, San Luis de Potosí, México (February 25, 2022)

**Invited Seminar Speaker:**

“No nos olvidemos de la ecología en la AgrECOLOGIA,” Inaugural Symposium of the Agroecology Master Program, El Colegio de la Frontera Sur, Chiapas, Mexico (March 4, 2022)

“Environment: An Ecological Perspective,” Panel Presentation, Michigan Society of Fellows (October 27, 2021)

**Conference/Symposium Speaker:**

“Zoonosis y la Matriz Agrícola,” VIII Congreso Mexicano de Ecología, Oaxaca, Mexico (May 23, 2022)

**Invited Workshop Speaker:**

“Biodiversity and Food Security: An Environmental Justice Lens,” Reconnecting People and Nature in the Anthropocene, Stanford University, Palo Alto, CA. (October 31, 2022)

2020-2021

**Plenary /Keynote Speaker:**

“Biodiversity, Agriculture and Pandemics: Perspectives from a Scholar/Activist,” Diversified Agroecosystems Research Cluster Symposium, Center for Sustainable Food Systems, University of British Columbia, Vancouver, British Columbia, Canada (April 9, 2021).

“Confronting the Climate Crisis: Coffee Agroforestry and Sustainability,” Sustainability and the Climate Crisis Conference, Loyola Sustainability Research Center, Montreal, Canada (March 19, 2021).

**Invited Seminar Speaker:**

“Using natural history to inform the study of complex ecological systems: a case study of the coffee agroecosystem,” Departmental Seminar, Department of Ecology and Evolution, University of Chicago, Chicago, IL (April 12, 2021).

“Using natural history to inform the study of complex ecological systems: a case study of the coffee agroecosystem,” Departmental Seminar, Department of Integrative Biology, University of Texas, Austin, TX (April 5, 2021).

“Autonomous Pest Control: Natural History and Ecological Complexity in the Coffee Agroecosystem,” Departmental Seminar, Biology

Department, Concordia University, Montreal, Canada (March 19, 2021).

“Natural history and complexity in Agroecosystems,” Departmental Seminar, Biology Department, Utah State University (March 3, 2021).

“Integrating conservation and agriculture to feed the world sustainable and with a social justice lens,” Ecology Center, Utah State University (March 2, 2021).

“Organization of ants in a novel ecosystem: Pest control in a coffee farm” Departmental Seminar, EEB, University of Michigan, Ann Arbor (February 11, 2021).

“Complejidad ecológica y el control autónomo de plagas,” International Seminar: Agroecosistemas: Alimento, Biodiversidad y Resiliencia, México (August 13, 2020).

“Using natural history to inform the study of complex ecological systems: A case study of the coffee agroecosystem,” Departmental Seminar Series, Entomology Department, Michigan State University (November 2, 2020).

2019-2020 **Plenary /Keynote Speaker:**

“The complex ecological interactions behind your cup of coffee,” 2019 Roger E. Wilson Lecture, Miami University, Oxford, OH (October 16, 2019).

**Invited Seminar Speaker:**

“Nature’s matrix: beyond the land-sharing land-sparing debate,” Biology Department, Miami University, Oxford, OH. (October 17, 2019).

2018-2019 **Plenary /Keynote Speaker:**

“Food sovereignty: A challenge to food regimes from below,” 2019 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 Developpement, Marseille, France (October 19, 2018).

2017-2018 **Plenary /Keynote 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 /Keynote 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/Keynote 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/Keynote 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 the War 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/Keynote 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/Keynote 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 21<sup>st</sup> 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/Keynote 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.

13<sup>th</sup> 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.

### **Post Doctoral Fellows**

Kimberly Williams-Guillén (2006-2008)

Dr. Jarvas Queiroz (2007-2008)

Nils McCune (2017-2018)

Kevin Li (2020-2022)

### **Graduate Students**

Ph.D. Students (Committee Chair)

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 Armbrrecht (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:*

Director of Conservation Science, Paso Pacífico

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

Research Associate, Colegio de la Frontera Sur, Chiapas, Mexico

#### *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 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.

Lauren Schmitt (2020)

Postdoctoral Fellow, University of Maryland

*Current:*

Jonathan Morris

Iris Saraeny Rivera Salinas

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

Erika Schreder

Bruce Ferguson

Virginia Nickerson

Katie Richter

Shinsuke Uno

Alexandre Mas

Sergio Knaebel (co-chair)

Sara Cohen	Department of Conservation and Recreation, State of Massachusetts
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	Postdoctoral Fellow student at University California, Berkeley
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)	Postdocotral Fellow, 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)	Procurement, Zingermans



Eliot Jackson (2017)  
Bolivar Aponte (2018)  
Jessica Robinson (2018)  
Austin Martin (2019)  
Sarah Barney (2019)  
Iris Seraeny Rivera Salinas (2019)  
Princejonathan Pruitt (2019)

Ardra Venugopal (2019)  
Linnea Carver (2019)  
Kris Harmon (2019)

Fern MacDougal (2019)  
Hagan Capnerhurst (2020)

Jannice Newson (2020)  
Isabella Mayorga (2021)

Juan Chung (thesis)

Seneca Lee (thesis)

Chenyang Su (thesis)  
Dana Van Huis (project)  
Andriana Miljanic  
Teresa Dorado

Ember Bradbery

Instructor, Eastern Michigan University  
PhD student, Tulane University  
Program Manager, Savanna Institute, WI  
PhD student, Temple University, PA  
Farmer, KT  
PhD student, University of Michigan  
Wisconsin Tribal Conservation Advisory  
Council, WI

Biodiversity Scientists, Rainforest  
Connection, PR  
PhD student, UC Berkeley, CA  
Lecturer, Washtenaw Community College,  
MI

Founder and CEO of Lilian Augusta  
Coordinator of Education, San Francisco  
Bay National Estuarine Research Reserve,  
CA

Climate Justice Director, Michigan  
Environmental Justice Coalition, MI  
Natural Science Coordinator, Sunday  
Manufacturing, CO

PhD Student, Dartmouth University  
Volunteer for MN350, MN  
Managing Consultant, Guildhouse, NY  
Applied Farmscape Ecology Program  
Coordinator, Hudson Valley Farm Hub, NY  
PhD student at Colorado State University,  
CO

#### Master Students (Committee Chair)

##### *Current:*

Xochyl Pérez (thesis)  
Ariana Bautista (thesis)  
Caitlin Vigneau (thesis)  
Ylexia Padilla (project)  
Carson Brown (practicum)

#### 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  
Kanakano 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

(co-advise with José Alfaro and John Vandermeer)

“Biomass Residue Fueled Micro-Grid for a Rural Community in Puerto Rico” (2020)  
Muzna Raheel  
Stephen Barr  
Juan Chung

#### 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***

***Member of the International Advisory Board of:  
Journal of Peasant Studies***

***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***

- Executive Board Member: Institute for Research and Action in Agroecology (ILEA), PR (2020-present)

- Executive Board Member: Pesticide Action Network-North America (2000-2002)
- Executive Board Chair: Pesticide Action Network North America (2003-2004)
- Lead author on the International Assessment of Agriculture, Science, Knowledge and Technology for Development (IAASTD) report (2005-2009)
- Participated as keynote speaker at the Sustainable Agricultural Commission of La Via Campesina (2010 in Malaga, Spain)
- Member for 40 years of the New World Agriculture and Ecology Group (NWAEG)
- Member of Science for the People (1980-1989); Member Editorial Board of the Science for the People Magazine (1983); Participant and speaker at the History of Science for the People Conference, Amhers, MA (2014); Co-organizer of the National Convention for the rebirth of Science for the People, Ann Arbor (2018)
- Co-organizer of the Teach-in +50: End the War Against the Planet, a week's celebration of the 50<sup>th</sup> anniversary of the nations's first teach-in about the war against Vietnam (2015)
- 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 (2016-present)
- Co-organizer of the University of Michigan's Bicentennial Celebration "The University's Future: Confronting the Climate Crisis" (2017) Elected Fellow of Food First! (2018 to present)
- Participant for three consecutive years in BioBlitz D-Town Farm (2015-2017)
- Co-organizer and participant for three consecutive years of Eco-Dia in Finca Irlanda, Mexico (2017-2019)
- Invited participant and speaker for two consecutive years at the ConCiencias for Humanity, a science conference organized by the Zapatistas in Chiapas, Mexico (2017-2018)
- Faculty Advisory Board Member: University of Michigan's Ginsberg Center for Community Engagement (2018-present)
- Circular Economy collaborative project with Casa Pueblo, a community grassroots organization in Puerto Rico that promotes "autogestion comunitaria".
- Executive Board Member: Institute for Research and Action in Agroecology (Puerto Rico) (2019-present)