Ivette Perfecto
Curriculum Vitae

School for Environment and Sustainability, The University of Michigan
440 Church St, Ann Arbor, MI 48109-1115
e-mail: perfecto@umich.edu

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 Functionelle et Evolutive, Université de Monpellier, 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", Universidat 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 conservacão" Universidad Federal de Minas Gerais, Belo Horizonte, Brazil.
April 2003	Invited Professor: Series of (7) Lectures on Biodiversity at Universitá 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 Ph.D. Honorary Degree in Education (*honoris causa*), Universidad Sagrado Corazón
- 2022 Elected Member of the National Academy of Sciences
- 2020-Present James E. Crowfoot Professor of Environmental Justice Collegiate Professor
- 2019-2023 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)
- 2009-2020 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)

2021-2026 Transformative Food Systems Fellows Program: Cultivating Resilient Agriculture (USDA-NIFA- Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowship (NNF) Grants Program, Jennifer Blesh, Brendan O'Neil, Meha Jain and Lesli Hoey, 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) 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 lens: 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 though 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. 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/
2. **Perfecto,** I., J. Vandermeer and A. Wright (Revised Edition). 2019. *Nature's Matrix: Linking Agriculture, Conservation and Food Sovereignty*, Routledge, London.
3. Vandermeer, H. and I. **Perfecto**. 2017. *Ecological Complexity for Agroecology*, Routledge, London.
4. **Perfecto**, I. and J. Vandermeer. 2015. *Coffee Agroecology*, Routledge, London.
5. **Perfecto,** I., J. Vandermeer and A. Wright. 2009. *Nature's Matrix: Linking Agriculture, Conservation and Food Sovereignty*, Routledge, London.
6. 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
7. 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. Lugo Perez, J., Z. Hajian-Forooshani*, J. Vandermeer, and I. **Perfecto**. *In press*. The importance of shade trees in promoting carbon storage in the coffee agroforest system of Puerto Rico. *Agriculture Ecosystems and Environment.*
2. Li*, K., Z. Hajian-Forooshani*, J. Vandermeer and **I. Perfecto**. *In press*. Coffee leaf rust (*Hemileia vastatrix*) is spread by rain splash from infected leaf litter in a semi-controlled experiment. *Journal of Plant Phytopathology*
3. 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.221737212
4. **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

5. 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
6. 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
7. 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
8. Avelino, J., S. Gagliardi, I. **Perfecto**., M. Isaac, T. Liebig, J. Vandermeer, I. Merle, Z. Haijian-Forooshni*, 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
9. 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
10. 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
11. 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
12. 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.
13. 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
14. 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
15. 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
16. 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
17. 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
18. Jedlicka, J. A., S.M. Philpott, M.L. Baena Hurtado, P. Bichier, T.V. Dietsch, L. Hayward, S. Langdridge, 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

19. 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
20. 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
21. 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
22. 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
23. 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
24. 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
25. 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
26. 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
27. 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
28. 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
29. **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)
30. 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

31. **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

32. 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)

33. 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

34. 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).

35. 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

36. 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)

37. **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

38. 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)

39. 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

40. **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. *Scientific Reports* (2019) 9:15668 | https://doi.org/10.1038/s41598-019-51416-1

41. 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.

42. Vandermeer, J. and I. **Perfecto.** 2019. Hysteresis and critical transitions in coffee agroecosystems. *Proceedings of the National Academy of Science* 116 (30): 15074-15079. https://doi.org/10.1073/pnas.1902773116

43. 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)

44. **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.

45. Blesh, J, L. Hoey, A. Jones, H. Friedmann, and I. **Perfecto**. 2019. Development pathways toward "zero hunger". *World Development* 118: 1-14.

46. 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.

47. 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).

48. 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.

49. 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.

50. Vandermeer, J. and I. **Perfecto**. 2018. Ecological complexity in the Rosennean framework. *Ecological Complexity* 35: 45-50.

51. 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.

52. 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

53. 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.
54. 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 constrains in the coffee-banana agroforestry system of south-western Uganda. *International Journal of Nutrition and Agricultural Research* 4 (2): 1005-1012.
55. Fisher*, K., and I. **Perfecto**. 2017. Phenological floral resource complementarity explains patterns in bee abundance. *Ecological Applications* 27(6): 1815-1826
56. 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.
57. Vandermeer, J. and I. **Perfecto**. 2017. Ecological complexity in agroecosystems: seven themes from theory. *Agroecology and Sustainable Food Systems* 41(7): 697-722.
58. Yitbarek*, S., J. Vandermeer and I. **Perfecto**. 2017. From insinuator to dominator: foraging switching by an exotic ant. *Diversity and Distributions* 23: 820-827.
59. 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.***
60. 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.
61. 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).
62. 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
63. 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
64. 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. Tscharntke, 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.

65. 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.

66. 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.

67. 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.

68. 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.

69. 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.

70. 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.

71. 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.

72. **Perfecto**, I. and J. Vandermeer. 2015. Structural constrains in novel ecosystems in agriculture: the rapid emergence of stereotypic modules. *Perspectives in Plant Ecology, Evolution and Systematics* 17: 522-530.

73. 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.

74. 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.

75. Iverson*, A., L. Marin*, K. Ennis*, D. Gonthier*, J. Remfert*, J. O'Connor-Barrie*, B. Cardinale and I. **Perfecto**. 2014. Do polycultures premote win-wins or tradeoffs in agricultural ecosystem services?: A meta-analysis. *Journal of Applied Ecology* 51: 1593-1602.

76. **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.

77. Gonthier,* D. J., K. K. Ennis*, S. Farinas*, H.Y. Hsieh*, A. L. Iverson*, P. Batary, J. Rodolphi, T. Tscharntke, 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

78. 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

79. 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.

80. 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.

81. 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

82. 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.

83. Vandermeer, J., D. Jackson* and I. **Perfecto**. 2014. Qualitative dynamics of the coffee rust epidemic: educating the intuition with theoretical ecology. *BioScience* 64(3): 210-218. doi: 10.1093/biosci/bit034.

84. 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.

85. 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)

86. 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.

87. Jímenez-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.

88. 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.

89. Gonthier*, D. J., K.K. Ennis*, S.M. Philpott, J. Vandermeer and I. **Perfecto**. 2013. Ants defend coffee berry borer colonization. *BioControl* 58(6): 815-820. DOI 10.1007/s10526-013-9541-z

90. 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.

91. Marin*, L. and I. **Perfecto.** 2013. Spider diversity in agroecosystems: the influence of agricultural intensification and aggressive ants. *Environmental Entomology* 42: 204-213.

92. **Perfecto**, I. and J. Vandermeer. 2013. Ant assemblages on a coffee farm: spatial mosaic versus shifting patchwork. *Environmental Entomology* 42: 38-48.

93. Vandermeer, J. and I. **Perfecto**. 2013. Complex traditions: Intersecting theoretic frameworks in agroecological research. *Agroecology and Sustainable Food Systems* 37: 76-89.

94. Vandermeer, J. and I. **Perfecto**. 2013. Tradiciones complejas: interseccion de marcos teóricos en la investigación agroecológica. *Agroecología* 8 (2): 55-64. (this is a expanded translation of the article published in *Agroecology and Sustainable Food Systems*, listed as #19)

95. Vandermeer, J. and I. **Perfecto**. 2012. Syndromes of production in agriculture: Prospects for socio-ecological regime change. *Ecology and Society* 17 (4): 39. http://dx.doi.org/10.5751/ES-04813-170439

96. **Perfecto**, I. and J. Vandmermeer. 2012. Separación o integración para la conservación de biodiversidad: la ideología detrás del debate "land-sharing *versus* land-sparing." *Ecosistemas* 21: 180-191.

97. Jha*, S., D. Allen*, **I. Perfecto** and J. Vandermeer. 2012. Mutualism and population regulation: mechanism matters. *PLos One* 7(8): e43510. doi:10.1371/journal.pone.0043510.

98. Hsieh*, H. and I. **Perfecto**. 2012. Ecological impacts of phorid parasitoids on ant communities. *Psyche*, doi:10.1155/2012/380474

99. Hsieh*, S., H. Liere*, M. E. Jiménez Soto* and **I. Perfecto**. 2012. Cascading trait-mediated interactions induced by ant pheromones. *Ecology and Evolution* 2(9): 2181-2191. doi: 10.1002/ece3.322

100. Tacharntke, T., Y. Clogh, L. Jackson, I. Motzke, I. **Perfecto**, J. Vandermeer, T. C. Wanger and A. Whitbread. 2012. Global food security, biodiversity conservation and the future of agricultural intensification. *Biological Conservation* 151: 53-59 (Faculty of 1000 Recommended http://f1000.com/prime/717951127?bd=1)

101. Mates*, S., C. Badgley and I. **Perfecto**. 2012. Parasitoid wasp diversity in apple orchards along a pest management gradient. *Agriculture, Ecosystems and Environment* 156: 82-88.

102. Fisher, J., P. Batáry, K. Bawa, L. Brussard, M. H. Chappell, Y. Clough, G. C. Daily, J. Dorrough, T. Hartel, L. E. Jackson, A. M. Klein, C. Kremen, T. Kaumerle, D. Lindenmayer, H. A. Mooney, I. **Perfecto**, S. M. Philpott, T. Tscharntke, J. Vandermeeer, T. C. Wagner and H. von Wehrden. 2011. Conservation: Limits of land sparing. *Science* 334: 593-594.

103. **Perfecto**, I. and J. Vandermeer. 2011. Discovery Dominance tradeoff as a mechanism of coexistence: the case of *Pheidole subarmata* and *Solenopsis geminata* (Hymenoptera: Formicidae) in Neotropical pastures. *Environmental Entomology* 40: 999-1006.

104. Lin*, B. B., M. J. Chappell, J. Vandermeer, G. R. Smith**,** E. Quintero, R. Bezner-Kerr, D. Griffith, S. Ketchum, S. Latta, P. McMichael, K. McGuire, R. Nigh, D. Rocheleau, J. Soluri, and I. **Perfecto**. 2011. Effects of industrial agriculture on global warming and the potential of small-scale agroecological farming to mitigate those effects. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources* 6 (20): 1-18.

105. Goulard*, F. F., J. Vandermeer, I. **Perfecto** and R. Matta-Machado. 2011. Frugivory by five bird species in agro-forest homegardens of Pontal do Paranepanema, Brazil. *Agroforestry Systems* 82: 239-246.

106. Tscharntke, T., Y. Clough, S. A. Bhagwat, H. Faust, D. Hertel, D. Hölscher, J. Juhrbandt, M. Kessler**,** I. **Perfecto**, G. Schroth, and E. Veldkamp. 2011. Ecological principles of multifunctional shade-tree management in cacao agroforestry landscapes. *Journal of Applied Ecology* 48: 619-629.

107. William-Guillén*, K. and I. **Perfecto**. 2011. Insectivorous Bats Demonstrate Variable Responses to Agricultural Intensification in a Neotropical Agroforestry System. *PloS ONE* 6: e16502.

108. **Perfecto**, I., J. Vandermeer and S. M. Philpott. 2010. Complejidad ecológica y el control de plagas en un cafetal orgánico: develando un servicio ecosistémico autónomo. *Agroecología* 5: 41-51

109. William-Guillén*, K. and **I. Perfecto**. 2010 Effects of agricultural intensification on the assemblage of leaf-nosed bats (Phyllostomidae) in a coffee landscape in Chiapas, Mexico. *Biotropica* 42: 605-613

110. **Perfecto,** I. and J. Vandermeer. 2010 The agricultural matrix as an alternative to the land-sparing/agricultural intensification model: facing the food and biodiversity crises. *Proceedings of the National Academy of Science* 107:5786-5791.

111. Vandermeer, J., I. **Perfecto** and S. M. Philpott. 2010. Ecological complexity and pest control in organic coffee production: uncovering an autonomous ecosystem service. *BioScience* 60: 527-537.

112. Vandermeer, J., I. **Perfecto** and N. Schellhorn. 2010. Propagating sinks, ephemeral sources and percolating mosaics: Conservation in landscapes. *Landscape Ecology* 25: 509-518.

113. Jha*, S., J. Vandermeer, and **I. Perfecto**. 2009. Population dynamics of *Coccus viridis*, a ubiquitous ant-tended agricultural pest, assessed by a new photographic method. *Bulletin of Insectology* 62: 183-189.

114. Ferguson, B. G. H. Morales, A. González Rojas, F. de Jesús Íñiguez Pérez, M. E. Martínez Torres, K. McAfee, R. Nigh**, I. Perfecto**, S. M. Philpott, L. Soto Pinto, J. Vandermeer, R. M. Vidal, L. E. Ávila Romero, H. Bernardino, R. Realpozo Reye. 2009. Soberania alimentaria: Cultivando nuevas alianzas entre campo, bosque y ciudad. *Agroecología* 4: 49-58. Also printed in: Altieri, M. A. (ed.) Vertientes del pensamiento agroecológico, Sociedad Científica Latinoamericana de Agroecología, Medellín, Colombia.

115. Goulart*, F**.**, J. Vandermeer and I. **Perfecto**. 2009. Agroecologia na quebra de dois paradigmas modernos (Agroecological analysis of two modern paradigms). *Revista Brasileira de Agroecologia* 4: 76-85.

116. Allen*, D., J. Vandermeer and I**. Perfecto**. 2009. Are Islands really habitat Islands? *Forest Ecology and Management* 258: 2033-2036.

117. Vandermeer, J., **I. Perfecto,** and H. Liere*. 2009. Evidence for effective hyperparasitism on the coffee rust, *Hemileia vastatrix*, by the generalized insect pathogen, *Lecanicillium (Verticillium) lecanii* through a complex ecological web. *Plant Pathology* 58: 636-641

118. Philpott SM**, I. Perfecto**, J. Vandermeer, and S.Uno*. 2009. Spatial scale and density dependence in a host parasitoid system: an arboreal ant, *Azteca instabilis* and its *Pseudacteon* phorid parasitoid. *Environmental Entomology* 38: 790-796.

119. Jackson*, D., J. Vandermeer and I. **Perfecto.** 2009 Spatial and temporal dynamics of a fungal pathogen promotes pattern formation in a tropical agroecosystem. *The Open Ecology Journal* 2: 62-73.

120. Gordon, C. E., B. McGill, G. Ibarra-Núñez, R. Greenberg, and **I. Perfecto**. 2009. Simplification of a coffee foliage-dwelling beetle community under low-shade management. *Basic and Applied Ecology* 10: 246-254.

121. Chappell, M. J., J. Vandermeer, C. Badgley and **I. Perfecto**. 2009. Wildlife-friendly farming versus land sparing (Peer-reviewed letter). *Frontiers in Ecology and the Environment* 7: 183.

122. Philpott, S.M., W. J. Arendt, I. Armbrecht, P. Bichier, T. V. Diestch, C. Gordon, R. Greenberg, **I. Perfecto**, R. Reynoso-Santos, L. Soto-Pinto, C. Tejada-Cruz, G. Williams-Linera, J. Valenzuela, and S.M. Zolotoff. 2008. Biodiversity loss in Latin America coffee landscapes: review of the evidence on ants, birds and trees. *Conservation Biology* 22: 1093-1105.

123. Lin*, B. B**. I. Perfecto** and J. Vandermeer. 2008. Synergies between agricultural intensification and climate change could create surprising vulnerabilities for crops. *BioScience* 58: 847-854.

124. **Perfecto, I.** and J. Vandermeer. 2008. Biodiversity conservation in tropical agroecosystems: A new paradigm. *Annals of the New York Academy of Science*, (*The Year in Ecology and Conservation Biology 2008)* 1134: 173-200.

125. Williams-Guillén*, K**., I. Perfecto**, and J. Vandermeer. 2008. Bats control arthropod populations in a Neotropical agroforestry system. *Science* 320: 70.

126. **Perfecto, I**., and J. Vandermeer. 2008. Spatial pattern and ecological process in the coffee agroecosystem. *Ecology* 89: 915-920. (Special Feature)

127. Greenberg, R., **I. Perfecto** and S. M. Philpott. 2008. Agroforests as model systems for tropical ecology. *Ecology* 89: 913-914. (Special Feature)

128. Blair*, B. and **I. Perfecto**. 2008. Root proliferation and nutrient limitations in a Nicaraguan rain forest. *Caribbean Journal of Science* 44*:*36-42.

129. Philpott, S. M., **I. Perfecto**, J. Vandermeer. 2008. Behavioral diversity of predatory arboreal ants in coffee agroecosystems. *Environmental Entomology* 37: 181-191.

130. Philpott SM, **I. Perfecto,** J.Vandermeer. 2008. Effects of predatory ants on lower trophic levels across a gradient of coffee management complexity. *Journal of Animal Ecology* 77: 505-511.

131. Liere*, H. and **I. Perfecto.** 2008 Cheating in a mutualism: Indirect benefits of ant attendance to a coccidophagous coccinelid. *Environmental Entomology* 37: 143-149.

132. Vandermeer, J., **I. Perfecto** and S. M. Philpott. 2008. Clusters of ant colonies and robust criticality in a tropical agroecosystem. *Nature* 451: 457-459.

133. Badgley, C., J. Moghtader*, E. Quintero*, E. Zakem*, J. M. Chappell*, K. Aviles-Vázquez*, A. Samulon*, and **I. Perfecto**. 2007. Organic agriculture and the global food supply. *Renewable Agriculture and Food Systems* 22 (2): 86-108. (Most cited article in this journal)

134. Dietsch*, T.V., I. **Perfecto**, R. Greenberg. 2007. Avian foraging behavior in two coffee agroecosystems of Chiapas, Mexico. *Biotropica* 39: 232-240.

135. Vandermeer, J. and **I. Perfecto**. 2007. The agricultural matrix and the future paradigm for conservation. *Conservation Biology* 21: 274-277.

136. **Perfecto, I**. and J. Vandermeer. 2006. The effect of an ant-hemipteran mutualism on the coffee berry borer (*Hypothenemus hampei*) in southern Mexico. *Agriculture, Ecosystems and Environment* 117: 218-221.

137. Armbrecht*, I., **I. Perfecto** and E. Silverman. 2006. Limitation of nesting resources for ants in Colombian coffee plantations. *Environmental Entomology* 31: 403-410.

138. Vandermeer, J. and **I. Perfecto**. 2006. Response to comments on " A keystone mutualism drives a power function." *Science* 313: 1739.

139. Vandermeer, J., and I. **Perfecto**. 2006. A keystone mutualism drives pattern in a power function. *Science* 311: 1000-1002

140. Philpott*, SM, **I. Perfecto** and J. Vandermeer. 2006. Effects of management system and season on arboreal ant diversity and abundance in coffee agroecosystems. *Biodiversity and Conservation* 15: 139-155.

141. Jedlicka*, J., R. Greenberg, **I. Perfecto** and S. Philpott*. 2006. Seasonal foraging niche shifts of tropical avian residents: resource competition at work? *Journal of Tropical Ecology* 22:1-11.

142. Mascaro*, J., **I. Perfecto**, O. Barros*, D. Boucher, I. Granzow de la Cerda and J. Vandermeer. 2005. Above ground biomass accumulation in a tropical wet forest in Nicaragua following a catastrophic hurricane disturbance. *Biotropica* 37: 600-608.

143. **Perfecto, I**., J. Vandermeer, A. Mas* and L. Soto Pinto. 2005. Biodiversity, yield and shade coffee certification. *Ecological Economics* 54: 435-446.

144. Bunker, D. E., F. De Clerck, R. K. Colwell, **I. Perfecto**, O. Phillips, M. Sankaran and S. Naeem. 2005. Biodiversity loss and above-ground carbon storage in a tropical forest. *Science* 310: 1029-1031.

145. Badgley and C., **I. Perfecto**. 2005. Cuban science democratic and not tied to profits. *Nature* 437: 192.

146. Armbrecht*, I., L. Rivera and **I. Perfecto**. 2005. Reduced diversity and complexity in the leaf litter ant assemblage of Colombian coffee plantations. *Conservation Biology* 19: 897-907.

147. Vandermeer, J. and **I. Perfecto**. 2005. The Future of Farming and Conservation. *Science* 308: 1257.

148. **Perfecto, I**., J. H. Vandermeer, G. López, G. Ibarra-Nuñez, R. Greenberg, P. Bichier and S. Langridge*. 2004. Greater predation of insect pests in a diverse agroecosystem: The role of resident Neotropical birds in shade coffee farms. *Ecology* 85: 2677-2681.

149. Vandermeer, J., Granzow de la Cerda, **I., Perfecto**, I. Boucher, D., Ruiz*, J., Kaufmann, A. 2004. Multiple basins of attraction in a tropical rain forest: evidence for non-equilibrium community structure. *Ecology* 85: 575-579.

150. Blair*, B. and **I. Perfecto**. 2004. Successional status and root foraging for phosphorus in seven tropical tree species. *Canadian Journal of Forest Research* 34: 1128-1135.

151. Jedlicka*, J., J. Vamdermeer, K. Aviles-Vazquez*, O. Barros* and **I. Perfecto**. 2004. Gypsy moth defoliation of oak trees and a positive response of red maple and black cherry: an example of indirect interactions. *The American Midland Naturalist* 152: 231-236.

152. Philpott*, S., R. Greenberg, P. Bichier, and **I. Perfecto**. 2004. Impacts of major predators on tropical agroforest arthropods: comparisons within and across taxa. *Oecologia* 140: 140-149.

153. Armbrecht*, I., **I. Perfecto**, and J. Vandermeer. 2004. Enigmatic biodiversity correlations: ant diversity responds to diverse resources. *Science* 304: 284-286.

154. Philpott*, S. M., J. Maldonado*, J. Vandermeer and **I. Perfecto**. 2004. Taking trophic cascades up a level: behaviorally-modified effects of phorid flies on ants and ant prey in coffee agroecosystems. *Oikos* 105: 141-147.

155. Armbrecht*, I. and **I. Perfecto**. 2003. Litter ant's diversity and predation potential in two Mexican coffee matrices and forest fragments. *Agriculture, Ecosystems and Environment* 97: 107-115.

156. **Perfecto, I**., A. Mas*, Dietsch*, T. V. and J. Vandermeer. 2003. Species richness along an agricultural intensification gradient: A tri-taxa comparison in shade coffee in southern Mexico. *Biodiversity and Conservation* 12: 1239-1252.

157. **Perfecto, I**. and L. Vet. 2003. Response by two parasitoids to non-host plants: the tri-trophic system of *Cotesia* spp.(Hymenoptera: Braconidae), *Pieris rapae* (Lepidoptera: Pieridae) and *Brassica oleraceae*. *Environmental Entomology* 32: 163-174.

158. Soto-Pinto*, L., **I. Perfecto**, Castillo-Hernandéz, J. and Caballero-Nieto, J. 2002. Shade over coffee: its effects on berry borer, leaf rust and spontaneous herbs in Chiapas, Mexico. *Agroforestry Systems* 55: 37-45.

159. Vandermeer, J., **I. Perfecto**, G. Ibarra Nuñez, S. Philpott*, and A. Garcia Ballinas. 2002. Ants (*Azteca* sp.) as potential biological control agents in shade coffee production in Chiapas, Mexico. *Agroforestry Systems* 56:271-276.

160. **Perfecto, I**. and J. Vandermeer. 2002. The quality of the agroecological matrix in a tropical montane landscape: ants in coffee plantations in southern Mexico. *Conservation Biology* 16: 174-182.

161. Blair*, B.C. and **I. Perfecto**. 2001. Nutrient content and substrate effect on fine root density and size distribution in a Nicaraguan rain forest. *Biotropica* 33(4): 697-701.

162. Vandermeer, J., D. Boucher, I. Granzow de la Cerda, and **I. Perfecto**. 2001. Growth and development of the thinning canopy in a post hurricane tropical rain forest in Nicaragua. *Forest Ecology and Management* 148: 221-242.

163. Boucher, D., J.H. Vandermeer, I. Granzow, M. M. Mallona*, **I. Perfecto**, and N. Zamora. 2001. Post-agriculture versus post-hurricane succession in southeastern Nicaraguan rain forest. *Plant Ecology* 156: 131-137.

164. Morales*, H., **I. Perfecto** and B. Ferguson*. 2001. Traditional fertilization and its effect on corn insect populations in the Guatemalan highlands. *Agriculture, Ecosystems and Environment* 84: 145-155.

165. Soto-Pinto*, L., **I. Perfecto**, Castillo-Hernández, J. and Caballero-Nieto, J. 2000. Shade effects on coffee production at the Northern Tzeltal zone of the State of Chiapas, Mexico. *Agriculture Ecosystems and Environment* 80:61-69.

166. Vandermeer, J., I. Granzow de la Cerda, D. Boucher, **I. Perfecto**, and J. Ruiz. 2000 Hurricane disturbance and tropical tree species diversity. *Science* 290: 788-791.

167. Morales*, H. and **I. Perfecto**. 2000. Traditional knowledge and pest control in the Guatemalan highlands. *Agriculture and Human Values* 17: 49-63.

168. Vandermeer, J. and **I. Perfecto**. 2000. La biodiversidad y el control de plagas en sistemas agroforestales. *Manejo Integrado de Plagas (Costa Rica)* 55: 1-5. (Spanish Translation of Vandermeer and Perfecto, 1998, in *Agroforestry Forum*).

169. Vandermeer, J. and **I. Perfecto**. 1998. Political ecology of deforestation in Central America. In: *Natural Contradictions: The Links between Ecological Science and Environmental Politics* (Haila, Y. and P. Taylor, eds.). *Science as Culture* (Special Issue) 7 (4): 519-556.

170. Vandermeer, J. and **I. Perfecto.** 1998. Biodiversity and pest control in agroforestry systems. *Agroforestry Forum* 9 (2): 2-6.

171. Vandermeer, J., M. van Noordwijk, J. Anderson, C. Ong, and **I. Perfecto**. 1998. Global change and multi-species agroecosystems: concepts and issues. *Agriculture, Ecosystems and Environment*. 67: 1-22.

172. **Perfecto, I**., P. Hansen, J. Vandermeer, and V. Cartín. 1997. Arthropod biodiversity loss and the transformation of a tropical agro-ecosystem. *Biodiversity and Conservation* 6: 935-945.

173. Vandermeer, J. and **I. Perfecto**. 1997. The agroecosystem: a need for the conservation biologist's lens. *Conservation Biology* 11: 591-592.

174. **Perfecto I**, and J. H. Vandermeer. 1996. Microclimatic changes and the indirect loss of ant diversity in a tropical agroecosystem. *Oecologia* 108: 577-582.

175. **Perfecto, I**., R. Rice, R. Greenberg, and M. Van der Voolt. 1996. Shade coffee as refuge of biodiversity. *BioScience* 46: 589-608.

176. Vandermeer, J., D. Boucher, **I. Perfecto** and I. Granzow de la Cerda. 1996. A theory of disturbance and species diversity: evidence from Nicaragua after hurricane Joan. *Biotropica* 28: 600-613.

177. **Perfecto, I**. and R. Snelling. 1995. Biodiversity and tropical ecosystem transformation: ant diversity in the coffee agroecosystem in Costa Rica. *Ecological Applications* 5: 1084-1097.

178. Boucher, D., J. Vandermeer, M. A. Mallona*, N. Zamora, and **I. Perfecto**. 1995. Resistance and resilience in a directly regenerating rain forest: Nicaraguan trees of the Vochysiaceae after Hurricane Joan. *Journal of Forest Ecology* 68: 128-136.

179. Vandermeer, J., M. A. Mallona*, D. Boucher, K. Yih and **I. Perfecto**. 1995. Three years of ingrowth following catastrophic damage on the Caribbean coast of Nicaragua: evidence in support of the direct regeneration hypothesis. *Journal of Tropical Ecology* 11: 465-471.

180. **Perfecto, I**. and J. H. Vandermeer. 1995. Understanding biodiversity loss in agroecosystems: Reduction of ant diversity resulting from transformation of the coffee ecosystem in Costa Rica. *Entomology (Trends in Agricultural Sciences)* 2: 7-13.

181. **Perfecto, I.** 1994. Foraging behavior as a determinant of asymmetric competitive interactions between two ant species in a tropical agroecosystem. *Oecologia* 98: 184-192.

182. Roth*, D. S., **I. Perfecto** and B. Rathke. 1994. The effects of management systems on ground-foraging ant diversity in Costa Rica. *Ecological Applications* 4: 423-436.

183. **Perfecto, I.** 1994. The transformation of Cuban agriculture after the Cold War. *American Journal of Alternative Agriculture* 9: 98-108.

184. **Perfecto, I.** and J.H. Vandermeer. 1993. Distribution and turnover rate of a population of *Atta cephalotes* in a tropical rain forest in Costa Rica. *Biotropica* 25 (3): 316-321.

185. Vandermeer, J., J. Carney, P. Gersper, **I. Perfecto**, and P. Rosset. 1993. Cuba and the dilemma of modern agriculture. *Agriculture and Human Values* 10: 3-8.

186. Dlott, J., **I. Perfecto**, P. Rosset, L. Burkham, J. Monterey, and J. Vandermeer. 1993. Management of insect pests and weeds. *Agriculture and Human Values* 10: 9-15.

187. **Perfecto, I**. and J. H. Vandermeer. 1993. Cleptobiosis in the ant *Ectatomma ruidum* in Nicaragua. *Insectes Sociaux* 40: 112-116.

188. **Perfecto, I**. 1992. Observations of a *Labidus coecus* (Latreille) underground raid in the central highlands of Costa Rica. *Psyche* 99 (2): 214-220.

189. **Perfecto, I**. and A. Sediles. 1992. Vegetational diversity, the ant community and herbivorous pests in a tropical agroecosystem in Nicaragua. *Environmental Entomology* 21: 61-67.

190. **Perfecto, I**. 1992. Pesticide exports to the Third World. *Race and Class* 34: 107-114.

191. **Perfecto, I.** 1991. Dynamics of *Solenopsis geminata* in a tropical fallow field after ploughing. *Oikos* 62: 139-144.

192. **Perfecto, I.** 1991. Ants (Hymenoptera: Formicidae) as natural control agents of pests in irrigated maize in Nicaragua. *Journal of Economic Entomology* 84(1): 65-70.

193. **Perfecto, I**. 1990. Indirect and direct effects in a tropical agroecosystem: the maize-pest-ant system in Nicaragua. *Ecology* 71: 2125-2134.

194. **Perfecto I**. 1988. Variation in attack rates among subpopulations of *Cocotrypes carpophagus* utilizing *Euterpe globosa* seeds at three locations in Puerto Rico. *Tropical Ecology* 29: 114-120.

195. Shultz, B., H. McGuinness, B. Horwith, J. H. Vandermeer, C. Phillips, **I. Perfecto**, P. Rosset, R. Ambrose, and M. Hansen. 1987. Effects of planting densities, irrigation, and hornworm larvae on yields in experimental intercrops of tomatoes and cucumbers. *J. Amer. Soc. Hort. Sci.* 112:747-755.

196. **Perfecto, I**., B. Shultz, J.H. Vandermeer, B. Horwith, H. McGuinness, and A. Dos Santos. 1986. Effects of plant diversity and density on movement patterns of two ground beetles on a system of tomatoes and beans. *Environmental Entomology* 15:1028-1031.

197. Vandermeer, J.H., R. Ambrose, M.K. Hansen, H. McGuinness, **I. Perfecto**, C. Phillips, P. Rosset, and B. Shultz. 1984. An ecologically-based approach to the design of intercrop agroecosystem: an intercropping system of soybeans and tomatoes in Southern Michigan. *Ecological Modeling* 25:121-150.

Book Chapters

1. Aviles, K, e I. Perfecto (con C. Ramos y W. Zayas). 2023. Cosechando Libertad: un Sistema alimentario regenerative emancipatorio para un nuevo Puerto Rico. En *Pactos Ecosociales en Puerto Rico*, G. Gacia Lopes y F. Cintrón Moscoso (eds.). JunteGente + El Puente ELAC, San Juan, PR. https://pactosecosocialespr.com/ensayos/intro-entrelazando-propuestas-de-accion-ante-la-crisis-climatica-elementos-de-un-nuevo-pacto-eco-social-en-puerto-rico/
2. McCune, N., Y. Luna, J. Vandermeere I. Perfecto. 2021. Cuestiones agrarias y transformaciones agroecológicas. In: M. Benítez, T. Rivera-Núñez and L. García-Barrios (eds.), Agroecología y Sistemas Complejos: Planteamientos Epistémicos, Casos de Estudio y Enfoques Metodológicos, SOCLA, Mexico, pp 27-50.
3. Morales, H., G. P. Zualaga Sánchez, M. V. González-Santiago, I, **Perfecto** and S. Papuccio de Vidal. 2018. Alianza de Mujeres en Agroecología (AMA-AWA): Fortaleciendo vínculos entre académicas para el escalamiento de la agroecología. In: G. P. Zulugna Sánchez, G. Catacora-Vargas, and E. Siliprandi (eds.), *Agroecología en Femenino: Reflexiones a Partir de Nuestras Experiencias*, SOCLA, Editorial e Imagen Publicitaria, Bolivia, pp 15-34.
4. **Perfecto**, I. and J. Vandermeer. 2017. The quality of the agricultural matrix and long term conservation of biodiversity. In: P. Hunter, L. Guarino, C. Spillane, and P. McKeown (eds.), *Routledge Handbook of Agricultural Biodiversity*, Routledge, Taylor Group, New York, New York, pp. 133-152.
5. Armbrecht, I. and I. **Perfecto**. 2017. Ant-plant-herbivore interactions in northern Neotropical agroecosystems. In: P. Oliveira and S. Koptur (eds.), *Ant-Plant Interactions in a Changing World*, Cambridge University Press, Cambridge, 356-376.
6. **Perfecto**, I. and J. Vandermeer. 2017. A landscape approach to integrating food production and Conservation. In: I. Gordon, G. Squire and H. Prins, (eds.) *Food Security and Nature Conservation: Conflicts and Solutions*, Routledge, Taylor and Francis Books, pp. 133.
7. Vandermeer, J. and I. **Perfecto**. 2015. Complex traditions in agroecology: intersecting theoretical frameworks in agroecological research. In: Méndez, V. E., C. M. Bacon, R. Cohen, and S. R. Gliessman (eds.), *Agroecology: A Transdisciplinary, Participatory and Action-oriented Approach*, CRC Press, Taylor and Francis Group, pp 99-112.
8. Vandermeer, J. and I. **Perfecto**. 2014. Paradigms lost: tropical conservation under late capitalism. In: Hecht, S., K. Morrison and C. Padoch (eds.), *Social Life of Forests*, University of Chicago Press, Chicago, IL, pp. 114-128.
9. Lin, B. B. and I. **Perfecto**. 2012. Coffee agroforestry systems and the benefits of biodiversity for farmers. In: Simonetti JA, AA Grez & CF Estades (eds), *Biodiversity Conservation in Agroforestry Landscapes: Challenges and Opportunities*. Editorial Universitaria, Santiago pp. 15-40.
10. Vandermeer, J and **I. Perfecto**. 2012. Intensification of coffee production and its biodiversity consequences. In: Lindenmayer, D., S. Cunningham and A. Young (eds.). *Land Use Intensification Effects on Agriculture, Biodiversity and Ecological Processes,* CSIRO Publishing, Australia, pp. 123.

11. Ferguson, B. G. H. Morales, A. González Rojas, F. de Jesús Íñiguez Pérez, M. E. Martínez Torres, K. McAfee, R. Nigh**, I. Perfecto**, S. M. Philpott, L. Soto Pinto, J. Vandermeer, R. M. Vidal, L. E. Ávila Romero, H. Bernardino, R. Realpozo Reye. 2009. Bosques, agricultura y sociedad: Cultivando nuevas alianzas. In: Altieri, M. A. (ed.), *Vertientes del pensamiento agroecológico, Sociedad Científica Latinoamericana de Agroecología*, Medellín, Colombia.
12. Philpott, S. M., **I. Perfecto**, I. Armbrecht, and C. Parr. 2009. Disturbance and habitat transformation. In: L. Lach, C. Parr, and K. Abbott (eds.), *Ant Ecology*. Oxford University Press, Oxford, UK, pp. 137-156.
13. Nivia#, E., I. **Perfecto#**, M. Ahumada, K. Luz, R. Perez, J. Santamaria (plus 11 contributing authors) 2009. *Agriculture in Latin America and the Caribbean: Context, Evolution and Current Situation*, pp. 1-75. In International Assessment of Agricultural Knowledge, Science and Technology for Development: LAC Report. Island Press, Washington DC. (# Lead Coordinating Authors).
14. Vendermeer, J., **I. Perfecto**, S. M. Philpott and J. Chappell. 2008. Reenfocando la conservación en el paisaje: La importancia de la matriz. In: J. Saenz and C. Harvey (eds.), *Evaluación y conservación de la biodiversidad en paisajes fragmentados en Mesoamerica*. Editorial de la Universidad Nacional Autónoma de Costa Rica, Heredia, Costa Rica, pp. 75-104.
15. Vandermeer, J. and **I. Perfecto**. 2007. The diverse faces of ecosystem engineers in agroecosystems. 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, pp. 367-385.
16. **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. Tscharntke, M. Zeller and C. Leuschner (eds.). *The Stability of Tropical Rainforest Margins: Linking Ecological, Economic and Social Constraints.* Springer-Verlag, Berlin, pp 227-263.
17. **Perfecto, I.** and I. Armbrecht. 2003. The coffee agroecosystem in the Neotropics: Combining ecological and economic goals. In: J. Vandermeer (ed.). *Tropical Agroecosystems*, CRC Press, Boca Raton, FL, pp. 159-194.
18. **Perfecto, I**. and J. Vandermeer. 2002. Caficultura y biodiversidad: cafetales como reservas de biodiversidad y biodiversidad como benefactora de la caficultura. In: J. Pohlan (ed.). *Mexico y la Caficultura Chiapaneca: Reflexiones y Alternativas para los Caficultores*. Shaker Verlag, Aachen, pp. 75-86.
19. **Perfecto, I**. and A. Castiñeiras. 1998. Deployment of the predaceous ants and their conservation in agroecosystems. In: P. Barbosa (ed.). *Perspectives on the Conservation of Natural Enemies of Pest Species.* Academic Press, San Diego, CA, pp. 269-289.
20. **Perfecto, I.** 1994. Sustainable agriculture embedded in a global sustainable future: agriculture in the United States and Cuba. In: B. Bryant (ed.). *Issues, Policies, and Solutions for Environmental Justice*. Island Press, Washington DC, pp. 172-186.
21. **Perfecto, I.** 1992. Pesticide exposure to farm workers and the international connection. In: B. Bryant and P. Mohai, (eds.). *Race and the Incidence of Environmental Hazards*, Westview Press, Boulder, CO, pp. 177-203.

22. **Perfecto, I.** 1991. Hazardous waste and pesticides: an international tragedy. In: B. Bryant, and P. Mohai (eds.). *Environmental Racism: Issues and Dilemmas*, University of Michigan, Office of Minority Affairs, Ann Arbor, MI, pp. 36-39.

Blogs, Posting and Other Non-Peer-reviewed arxiv.org/journals/magazines

1. Jonas, T., P. Seufert, S. Engel-DiMauro, L. F. Chaves, L. Bergman, N. Gottdenker, A. Liebman, I. **Perfecto**, K. Rhiney, K. Williams-Guillén, L. Kelley, and R. Wallace, PReP Agroecologies. Farming, Pandemics, and a conservation program, aimed at enriching the Global North. Dispatch #9, *Pandemic Research for the People* (September 9, 2022) https://drive.google.com/file/d/1QznHJOpkJBE6h6N1CBgpuWcTh0YP9Thu/view
2. Chavez, L. F., N. Gottdenker, J. Vazquez Runk, A. Liebman, K. Williams-Guillén, L. Kelley, I. **Perfecto**, P. Saufer, T. Jones, . Bergman, S. Kruger, K. Anderson, R. Wallace. 2021. Scientists say land use drive new pandemics. But what if "land" isn't what they think it is? Dispatch #7, *Pandemic Research for the People* (March 28, 2021) https://drive.google.com/file/d/12cW-PkPU9Z5TtoEMqKuhPnUGsmOLVp16/view
3. Liebman, A., T. Jonas, I. **Perfecto**, L. Kelley, H.A. Peller, S. Engel-Dimauro, K. Rhiney, P. Saufer, L. F. Chavez, L. Bergmann, K. Williams-Guillén, M. Ajl, E. Dupain, J. Gulick, and R. Wallace. 2020. Can agriculture stop COVID-21, -22, and -23? Yes, but not by greenwashing agrobusiness. Dispatch #6, *Pandemic Research for the People* https://drive.google.com/file/d/1M-yW7JakFwSV_ZFUNZdQLdYWhlbn_L6D/view
4. Liebman, A., I. **Perfecto** and R. Wallace. Whose agriculture drives diseases? 2020. *AREC Blog*, posted October 5, 2020. **https://arerc.wordpress.com/2020/10/05/whose-agriculture-drives-disease/**
5. **Perfecto,** I., J. Vandermeer and A. Wright. 2019. Biodiversity and agriculture: Nature's matrix and the future of conservation. *Food First Backgrounder* 25 (4).
6. Vandermeer, J. and I. **Perfecto.** 2018. Coffee and the shock doctrine in Puerto Rico. Food First, August 4, 2018.
7. 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.
8. 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/
9. 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.
10. **Perfecto**, I. and C. Badgley. 2010. Can small-scale organic farms feed the world? *Sojourners*.
11. Ruiz, J., J. Vandermeer, I. Granzow de la Cerda, **I. Perfecto**, D. Boucher. 2008. Regeneración de bosques huracanados de Nicaragua (1988-2007): veinte años de experiencias de un programa de investigacion y enseãnza. *Wani*.

12. Williams-Guillen, K., I. **Perfecto,** and J. Vandermeer. 2008. Non-phyllostomid Bats across a gradient of agricultural intensification in coffee agroecosystems of Chiapas, Mexico. Bat Research News 49:185-186.
13. **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.
14. Greenberg, R., I. **Perfecto**, S. M. Philpott. 2008. Coffee: Ecology in the Marketplace. (Guest Editorial) *Fronteirs in Ecology and the Environment* 6: 115.
15. **Perfecto, I**. and C. Badgley. 2008. Kann Bio-landwirtschaft die welt erähren? *Okologie & Landbau* 146: 53-55.
16. 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.
17. **Perfecto, I.** and C. Badgley. 2007. Can organic agriculture feed the world? *Pesticide News* 78, December, 2007.
18. 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.
19. **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.
20. **Perfecto, I**. 2003. Conservation biology and agroecology: de un pájaro las dos alas. *Endangered Species Update* 20: 133-145.
21. 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) Edicion Especial. San Salvador. ISBN 0565091816.
22. Ruiz, J., D. H. Boucher, J. H. Vandermeer, I. Granzow de la Cerda, **I. Perfecto** and V. Martinez Salgado. 2001. Recuperación inicial de un bosque incendiado y previamente afectado por el huracán Juana en Nicaragua. *Encuentro* XXXII(58):66-75.
23. 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.
24. Granzow de la Cerda, I, J. Vandermeer and I. **Perfecto**. 1999. Los bosques húmedos de Centro America. *El Ecologista* 18: 35-39.
25. **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.
26. 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.
27. Vandermeer, J. and **I. Perfecto**. 1995. Slicing up the rain forest on your breakfast cereal. *The Humanist*. September/October 1995: 24-30.

28. **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.
29. Global Exchange Delegation Members (8 members). 1993. Sustainable agriculture: The Cuban experiment. *Global Pesticide Campaigner* 3 (4): 1, 8-10.
30. **Perfecto,** I. and B. Velázquez. 1992. Farm workers: amongst the least protected. *EPA Journal* 18: 13-14.
31. 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.
32. 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.
33. 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.
34. 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. Jekins. *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. MacDougal*, C. A. and I. **Perfecto**. Canopy connectivity increases arboreal ant species density and influences assembly in a shaded coffee agroecosystem. *Biotropica.*
2. **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.), Bioversity International and Earthscan.

3. **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. Zoonosis and the agricultural matrix. *One Earth.*
4. **Perfecto**, I. Complex agroecosystems, ecological dialectics and games as alternative teaching tolls: The case of Azteca Chess. *Experiencias de investigación en Agroecología: Métodos para Analizar Systemas agroalimentarios en América Latina*.

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 *Proceedings of the National Academy of Science* (5/2023)
2. Vandermeer, J., Z. Haijian-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).
3. Rivera, I.S., A. Irizarry, K. Maldonado, and **I. Perfecto**. Predator interference prevents biological control. Submitted to *Basic and Applied Ecology*.
4. Vandermeer, J. and I. Perfecto. Combining intransitive and higher order effects in a coupled oscillator framework: a case study of an ant community. Submitted to *Ecology x*(5/2023).

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

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).

Conference/Symposium Speaker:

"The Matrix Matters: A New Approach for Understanding Zoonozes 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 agroecologia," 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," Innagural 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 Development, 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 agroecologia frente al muro," Encuento 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, Calí, 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-Champain (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 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/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 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/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 Functionnelle & Evolutive, Centre National de la Recherche Scientifique, Montpellier, France.

Depatamento 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)

"Biodibversity 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	*Current activity:*
Kimberly Williams-Guillén (2006-2008)	Director of Conservation Science, Paso Pacífico
Dr. Jarvas Queiroz (2007-2008)	Associate Professor, Universidad Federal Rural de Rio de Janeiro, Seropédica, Brazil
Nils McCune (2017-2018)	Research Associate, Colegio de la Frontera Sur, Chiapas, Mexico
Kevin Li (2020-2022)	

Graduate Students
Ph.D. Students (Committee Chair)
Ph.D. Students (Committee Chair)

Graduated:	*Current activity:*
Dr. Patrick Christie (1999)	Associate Professor (U. of Washington)
Dr. Helda Morales (2000)	Investigador Titular A (ECOSUR, Mexico) (equivalent to Associate Professor)
Dr. Brent Blair (2002)	Associate Professor (Xavier University)
Dr. Thomas V. Dietsch (co-chair) (2003)	Migratory Bird Biologist (US Fish and Wildlife)
Dr. Inge Armbrecht (2003)	Associate Professor (Universidad del Valle, Colombia)
Dr. Stacy Philpott (co-chair) (2004)	Professor, Associate University of California, Santa Cruz
Dr. Miguel Antonio Garcia (2004)	Director Fish and Wildlife (Department of Natural Resources, Puerto Rico)
Dr. Virginia Nickerson (co-chair) 2006	Outreach Coordinator, Center for Sustainable Agriculture, University of Vermont
Dr. Brenda B. Lin (2006)	Interdisciplinary Ecologist and Science Policy Researcher (Commonwealth Scientific and Industrial Research Organization [CSIRO], Australia)
Dr. Evandro do Nacimento Silva (2006)	Associate Professor and Chief of Staff of the Provost Office, Universidade Stadual Feria Santa Ana, Bahia, Brazil
Dr. Shinsuke Uno (2007)	Lecturer, Hosei University, Japan
Dr. Linda Marin (2014)	Postdoctoral Fellows, Colegio de la Frontera Sur, San Cristobal, Chiapas, Mexico
Dr. David Gonthier (2014)	Assistant Professor, University of Kentucky, Louiville, KT
Dr. Hsunyi Hsieh (2015)	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 Seraeny Rivera Salinas

<u>Former Visiting Ph.D. Students from Abroad</u>
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:	*Current activity:*
Maria Antonia Mallona	Director of Environmental Program (Peace Corps, Nicaragua)
Janine Bologna	unknown
Patrick Christie	Associate Professor (U. of Washington)
Brent Blair	Associate Professor (Xavier University)
John Soluri	Associate Professor (Carnegie-Mellon)
David Gisaru	unknown
Dana Roth	Southwest Assistant Regional Director for Science Applications, Landscape Conservation Cooperative, US Fish and Wildlife
Erika Schreder	Staff Scientist, Washington Toxics Coalition, Seattle, Washington
Bruce Ferguson	Investigador Titular A, ECOSUR, Mexico (equivalent to Associate Professor)
Virginia Nickerson	Outreach Coordinator, Center for Sustainable Agriculture, University of Vermont
Katie Richter	Laboratory technician, School of Public Health, UM
Shinsuke Uno	Lecturer, Hosei University, Japan
Alexandre Mas	Director of Strategic Partnerships, The Nature Conservancy
Sergio Knaebel (co-chair)	Program Officer, David and Lucile Packard Foundation
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 Koening (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)	Instructor, Eastern Michigan University
Bolivar Aponte (2018)	PhD student, Tulane University
Jessica Robinson (2018)	Program Manager, Savanna Institute, WI
Austin Martin (2019)	PhD student, Temple University, PA
Sarah Barney (2019)	Farmer, KT
Iris Seraeny Rivera Salinas (2019)	PhD student, University of Michigan
Princejonathan Pruitt (2019)	Wisconsin Tribal Conservation Advisory Council, WI
Ardra Venugopal (2019)	
Linnea Carver (2019)	
Kris Harmon (2019)	Biodiversity Scientists, Rainforest Connection, PR
Fern MacDougal (2019)	PhD student, UC Berkeley, CA
Hagan Capnerhurst (2020)	Lecturer, Washtenaw Community College, MI
Jannice Newson (2020)	Founder and CEO of Lilian Augusta

Isabella Mayorga (2021)	Coordinator of Education, San Francisco Bay National Estuarine Research Reserve, CA
Juan Chung (thesis)	Climate Justice Director, Michigan Environmental Justice Coalition, MI
Seneca Lee (thesis)	Natural Science Coordinator, Sunday Manufacturing, CO
Chenyang Su (thesis)	PhD Student, Dartmouth University
Dana Van Huis (project)	Volunteer for MN350, MN
Andriana Miljanic	Managing Consultant, Guildhouse, NY
Teresa Dorado	Applied Farmscape Ecology Program Coordinator, Hudson Valley Farm Hub, NY
Ember Bradbery	PhD student at Colorado State University, CO

<u>Master Students (Committee Chair)</u>

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

<u>Master Project (Faculty Advisor)</u>
Completed:

"Toward a Sustainable Food System in Washtenaw County, Michigan" (2004)	Michael diRamiro Adam Martin Beth Murphy Lea Katz Garry Davis Kanako 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

<u>Undergraduate Honor Thesis Advisees</u>
Joseph Mascaro
Jackie Silverman
Alex Bajcz
Maria Estelí Jímenez Soto (Universidad de Chapingo)

<u>Other Undergraduate Advisees</u>
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 50th 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)