

STACY M. PHILPOTT

Environmental Studies Department
University of California, Santa Cruz
1156 High St.
Santa Cruz, CA 95064, USA

Office: NS2 473
Phone: 831-459-1549
Fax: 831-459-4015
sphilpot@ucsc.edu

RESEARCH & TEACHING INTERESTS

agroecology, biodiversity, climate change, community ecology, conservation biology, ecosystem services, food sovereignty, landscape ecology, insects, tropical biology, urban ecology

PROFESSIONAL APPOINTMENTS

2015 – present Interim Executive Director, Center for Agroecology & Sustainable Food Systems (CASFS), U. of California, Santa Cruz
2012 – present Ruth and Alfred Heller Chair in Agroecology, U. of California, Santa Cruz
2012 – present Associate Professor, Dept. of Environmental Studies, U. of California, Santa Cruz
2006 – present Research Associate, Smithsonian Institution, Migratory Bird Center
2011 – 2012 Associate Professor, Dept. of Environmental Sciences, U. of Toledo
2006 – 2011 Assistant Professor, Dept. of Environmental Sciences, U. of Toledo
2004 – 2006 Postdoctoral Fellow, Smithsonian Institution, Migratory Bird Center

EDUCATION

2004 Ph.D., University of Michigan, Department of Ecology and Evolutionary Biology
1995 B.S., University of Washington, Major in Zoology, Minor in Music

Other Relevant Coursework

2006 Smithsonian Conservation & Research Center, Intro. to GIS and Remote Sensing
2006 Smithsonian Conservation & Research Center, Advanced Conservation GIS
2004 Ant Course, La Selva Biological Station, Costa Rica

AWARDS AND HONORS

2011 Dion D. Raftopoulos Award for Outstanding Research, Sigma Xi, U. of Toledo Chapter
2011 U. of Toledo, College of Natural Sciences and Mathematics, Faculty Excellence Award
2010 U. of Toledo, Outstanding Advisor Award nomination
2010 U. of Toledo, Master Teacher Award recipient
2010 Highlight Article Award from Ecological Research: Livingston & Philpott. 2010. Ecological Research 25: 1129-1140
2010 Top-Cited Paper Award from Ecological Entomology: Philpott & Armbrrecht. 2006, Ecological Entomology 31: 369-377
2009 Must Read Article Award from Faculty of 1000 Biology: Philpott et al. 2009. Ecological Applications 19: 1858-1867

PUBLICATIONS

Peer-reviewed publications (journal articles and book chapters)

Web of Knowledge Researcher ID (F-2330-2011) -- 1489 citations (28.63 per article), H-index 22

* Undergraduate advisee, ** Graduate advisee

2015

85. De la Mora A**, Pérez-Lachaud G, Lachaud J-P, Philpott SM. (2015) Local and landscape drivers of ant parasitism in a coffee landscape. ***Environmental Entomology***, in press
84. De la Mora A**, García-Ballinas JA, Philpott SM. (2015) Effects of local and landscape factors on predatory impacts of ants in coffee landscapes. ***Agriculture, Ecosystems, and Environment*** 201: 83-91
83. Gillette PN*, Ennis KK**, Domínguez Martínez GH, Philpott SM. (2015) Changes in species richness, abundance, and composition of arboreal twig-nesting ants along an elevational gradient in coffee landscapes. ***Biotropica*** in press
82. Gibb H, Sanders NJ, Dunn RR, Watson S, Photakis M, Abril S, Andersen AN, Angulo E, Armbrrecht I, Arnan X, Bacarro FB, Bishop T, Boulay R, Castracani C, Del Toro I, Delsinne T, Diaz M, Donoso D, Enríquez ML, Fayle TM, Feener Jr DH, Fitzpatrick M, Gómez C, Grasso DA, Groc S, Heterick B, Hoffmann BD, Lach L, Taeger T, Lattke J, Leponce M, Lessard J-P, Longino J, Lucky A, Menke S, Mezger D, Mori A, Munyai TC, Paknia O, Pearce-Duvet J, Pfeiffer M, Philpott SM, de Souza JLP, Tista M, Vasconcelos HL, Vonshak M, Parr CL. (2015) Climate mediates the effects of disturbance on ant assemblage structure. ***Proceedings of the Royal Society B*** 282: 20150418.
81. Jiménez-Soto ME**, Philpott SM. (2015) Size matters: Nest colonization patterns for twig-nesting ants. ***Ecology and Evolution***, doi: 10.1002/ece3.1555
80. Lin BB, Philpott SM, Jha S. (2015) The future of urban agriculture and biodiversity-mediated ecosystem services: challenges and next steps. ***Basic and Applied Ecology*** 16: 189-201
79. Maas B, Karp D, Bumrungsri SJ, Darras K, Gonthier D, Huang C-C, Lindell C, Maine J, Mestre L, Michel N, Morrison E, Perfecto I, Philpott SM, Sekercioglu CH, Silva RM, Taylor P, Tscharrntke T, Van Bael S, Whelan CJ, Williams-Guillén K. Bird and bat predation services in tropical forests and agroforestry landscapes. ***Biological Reviews***, in press
78. Otoshi MD*, Bichier P, Philpott SM. (2015) Local and landscape correlates of spider activity density and richness in urban gardens. ***Environmental Entomology***, in press

2014

77. Burdine J*, Dominguez Martinez G, Philpott SM. (2014) Leafhopper abundance and richness in a coffee agroecosystem in Chiapas, Mexico. ***Environmental Entomology*** 43: 328-335
76. Jackson D, Vandermeer J, Perfecto I, Philpott SM. (2014) Population responses to environmental change in a tropical ant: the interaction of spatial and temporal dynamics. ***PLoSOne*** 9: e97809
75. Jha S, Bacon CM, Philpott SM, Rice RA, Mendez VE, Läderach P. (2014) Shade Coffee: update on a disappearing refuge for biodiversity. ***BioScience*** 64: 416-428
74. Klein A-M, Boreux V, Bauhus J, Chappell JM, Fischer J, Philpott SM. (2014) Chapter 7: Forest islands in an agricultural sea. Pages 79-95 In Koh LP, and Kettle CJ. ***Global Forest Fragmentation***, CAB International.
73. Pardee GL*, Philpott SM. (2014) Native plants are the bee's knees: Local and landscape predictors of bee richness and abundance in backyard gardens. ***Urban Ecosystems*** 17: 641-659

72. Perfecto I, Vandermeer J, Philpott SM. (2014) Complex ecological interactions in the coffee Agroecosystem. **Annual Review of Ecology and Systematics** 45: 137-158
71. Philpott SM, Cotton J, Bichier P, Friedrich RL*, Moorhead LC*, Uno S, Valdez M*. (2014) Local and landscape drivers of arthropod abundance, richness, and trophic composition in urban habitats. **Urban Ecosystems** 17: 513-532

2013

70. De la Mora A**, Murnen CJ*, Philpott SM. (2013) Local and landscape drivers of four groups of ants in coffee landscapes. **Biodiversity and Conservation** 22: 871-888
69. Gonthier DJ**, Dominguez GM, Witter J, Spongberg AL, Philpott SM. (2013) Bottom-up effects of soil quality on a coffee arthropod interaction web. **Ecosphere** 4: art107
68. Gonthier DJ**, Ennis KK**, Philpott SM, Vandermeer J, Perfecto I. (2013) Ants defend coffee from berry borer. **Biological Control** 58: 815-820
67. Livingston G*, Philpott SM, De la Mora A**. (2013) Do species sorting and mass effects drive assembly in tropical agroecological landscape mosaics? **Biotropica** 45: 10-17
66. Moorhead L*, Philpott SM. (2013) Richness and composition of spiders in urban green spaces in Toledo, Ohio. **Journal of Arachnology** 41: 356-363
65. Murnen CJ*, Gonthier DJ**, Philpott SM. (2013) Food webs in the litter: Effects of food and nest addition on ant communities in coffee agroecosystems and forest. **Environmental Entomology** 42: 668-676
64. Philpott SM. (2013) Biodiversity and Pest Control Services. In: S Levin, editor. *Encyclopedia of Biodiversity*, 2nd edition. 1: 373-385, Waltham, MA, Academic Press

2012

63. Brown BV, Philpott SM. (2012) Phorid parasitoids of *Azteca* ants in Central America (Diptera: Phoridae, Hymenoptera: Formicidae). *Special Issue "Ants and Their Parasites" in Psyche* Article ID 351232, 9 pages, doi:10.1155/2012/351232
62. Mathis KA**, Philpott SM. (2012) Current understanding and future prospects of host selection, acceptance, discrimination and regulation of phorid fly parasitoids that attack ants. *Special Issue "Ants and Their Parasites" in Psyche* Article ID 895424, 9 pages, doi:10.1155/2012/895424
61. Philpott SM, Bichier P. (2012) Effects of shade tree removal on birds in coffee agroecosystems in Chiapas, Mexico. For special feature on "Biodiversity and ecosystem services in cocoa and coffee based agroforestry systems". **Agriculture, Ecosystems, and Environment** 149: 171-180
60. Philpott SM, Pardee GL*, Gonthier D**. (2012) Cryptic biodiversity effects: Importance of functional redundancy revealed through addition of food web complexity. **Ecology** 93: 992-1001
59. Reese K*, Philpott SM. (2012) Environmental and habitat drivers of relative abundance of a suite of *Azteca*-attacking *Pseudacteon* phorid flies. **Environmental Entomology** 41: 1107-1114
58. Smukler S, Philpott SM, Jackson L, Klein A, DeClerck F, Winowiecki L and Palm C. (2012). Ecosystem Services in Agricultural Landscapes. Pages 17-52 In: JC Ingram, F DeClerck, and C Rumbaitis del Rio, editors. *Integrating Ecology and Poverty Reduction: The Application of Ecology in Development Solutions*. Springer.
57. Wang D, Heckathorn SA, Wang W, Philpott SM. (2012) A meta-analysis of plant physiological and growth responses to high temperature and elevated CO₂. **Oecologia** 169: 1-13

2011

56. Apul DS, Philpott SM. (2011) Faculty and students learn about sustainability engineering through involvement in the Outdoor Classroom Garden. Special Feature on Sustainability Education in Civil and Environmental Engineering in ***Journal of Professional Practice in Engineering Education and Practice*** 137: 69-78
55. Fischer J, Batáry P, Bawa KS, Burssaard L, Chappell MJ, Clough Y, Daily GC, Dorrough J, Hartel T, Jackson LE, Klein AM, Kremen C, Kuemmerle T, Lindenmayer DB, Mooney HA, Perfecto I, Philpott SM, Tschardt T, Vandermeer J, Wanger TC, von Wehrden H. (2011) Conservation: Limits of Land Sparing. ***Science*** 334: 593
54. Gonthier DJ**, Witter JD, Spongberg AL, Philpott SM. (2011) Effect of nitrogen fertilization on caffeine production in coffee (*Coffea arabica*). ***Chemoecology*** 21: 123-130
53. Houdeshell H*, Friedrich R**, Philpott SM. (2011) Effects of prescribed burning on ant nesting ecology in oak savannas. ***American Midland Naturalist*** 166: 98-111
52. Jenkins CN, Sanders NJ, Andersen AN, Arnan X, Bruhl CA, Cerda X, Ellison AM, Fisher BL, Fitzpatrick MC, Gotelli NJ, Gove AD, Guenard B, Lattke JE, Lessard J-P, McGlynn T, Menke SB, Parr CL, Philpott SM, Vasconcelos HL, Weiser MD, Dunn RR. (2011) Exploring the limits to our knowledge of ant diversity in light of climate change. ***Diversity and Distributions*** 17: 652-662
51. Jha S, Bacon C, Philpott SM, Rice RA, Mendez VE, Läderach P. (2011) Shade coffee at a crossroads again: A global review of ecosystem services and farmer livelihoods. Pages 141-208 In: WB Campbell, S Lopez Ortiz, editors. *Issues in Agroecology – Present Status and Future Prospectus*. Springer.
50. Mathis KA*, Philpott SM, Moreira R. (2011) Parasite lost: Chemical and visual cues used by *Pseudacteon* in search of *Azteca instabilis*. ***Journal of Insect Behavior*** 24: 186-199
49. Pardee GL*, Philpott SM. (2011) Cascading indirect effects in a coffee agroecosystem: Effects of a parasitic phorid fly on ants and the coffee berry borer. ***Environmental Entomology*** 40: 581-588

2010

48. De la Mora A**, Philpott SM. (2010) Wood-nesting ants and their parasites in forests and coffee agroecosystems. ***Environmental Entomology*** 39: 1473-1481
47. Ferguson BG, Morales H, González Rojas A, Íñiguez Pérez F, Martínez Torres ME, McAfee K, Nigh R, Perfecto I, Philpott SM, Soto Pinto L, Vandermeer J, Vidal RM, Ávila Romero LE, Bernardino H, Realpozo Reye R. (2010) La soberanía alimentaria: Cultivando nuevas alianzas entre campo, bosque y ciudad. ***Revista de Agroecología de la Universidad de Murcia*** 4: 49-58
46. Gonthier DJ**, Pardee GL*, Philpott SM. (2010) *Azteca instabilis* ants and the defence of a coffee shade tree: an ant-plant association without mutual rewards in Chiapas, Mexico. ***Journal of Tropical Ecology*** 26: 343-346
45. Larsen A*, Philpott SM. (2010) Twig-nesting ants: the hidden predators of the coffee berry borer. ***Biotropica*** 42: 342-347
44. Livingston G*, Philpott SM. (2010) A metacommunity approach to co-occurrence patterns in a community of tropical arboreal ants. ***Ecological Research*** 25: 1129-1140
43. Mooney KA, Gruner DS, Barber NA, VanBael SA, Philpott SM, Greenberg R. (2010) Terrestrial cascades across four trophic levels: food web theory fails for vertebrate insectivores. ***PNAS*** 107: 7335-7340

42. Moorhead L*, Philpott SM, Bichier P. (2010) Epiphyte biodiversity and the coffee agricultural matrix: Canopy stratification and distance to forest fragments. **Conservation Biology** 24: 737-746
41. Perfecto I, Vandermeer J, Philpott SM (2010) Complejidad ecológica y el control de plagas en un cafetal orgánico: Develando un servicio ecosistémico autónomo. **Revista de Agroecología de la Universidad de Murcia** 5: 41-52
40. Philpott SM. (2010) A canopy dominant affects nest establishment and twig-nesting ant assembly in coffee agroecosystems. **Oikos** 119: 1954-1960
39. Philpott SM, Perfecto I, Armbrrecht I, Parr C. (2010) Disturbance and habitat transformation. Pages 137-156 in: L Lach, C Parr, K Abbott, editors. *Ant Ecology*. Oxford University Press.
38. Uno S, Cotton J**, Philpott SM. (2010) Diversity and species composition of ants in urban green spaces. **Urban Ecosystems** 13: 425-441
37. Vandermeer J, Perfecto I, Philpott SM. (2010) Ecological complexity and pest control in organic coffee production: Uncovering an autonomous ecosystem service. **Bioscience** 60: 516-526
36. Weiser MD, Sanders NJ, Agosti D, Andersen A, Arnan X, Bruhl C, Cerda X, Ellison A, Fisher B, Gibb H, Fitzpatrick MC, Gotelli NJ, Gove A, Guenard B, Janda M, Kaspari M, Laurent EJ, Lessard JP, Longino JT, Majer JD, Menke SB, McGlynn TP, Parr C, Philpott SM, Pfeiffer M, Retana J, Suarez A, Vasconcelos H, Yanoviak S, Dunn RR. (2010) A global model of canopy ant diversity: do mechanisms on the ground drive patterns in the trees? **Biology Letters** 6: 769-772

2009

35. Chazdon RL, Harvey CA, Komar O, van Bruegel M, Ferguson BG, Griffith D, Martínez-Ramos M, Morales H, Nigh R, Soto-Pinto L, Philpott SM. (2009) Beyond reserves: A Research agenda for conserving biodiversity in tropical cultural landscapes. **Biotropica** 41:142-153
34. Dunn RR, Sanders NJ, Menke SB, Weiser MD, Fitzpatrick MC, Agosti D, Andersen A, Bruhl C, Cerda X, Ellison A, Fisher B, Gibb H, Gotelli N, Gove A, Guenard B, Janda M, Kaspari M, Laurent EJ, Longino JT, Majer J, McGlynn TP, Parr C, Philpott SM, Pfeiffer M, Retana J, Suarez A, Vasconcelos H. (2009) Climatic drivers of Hemispheric asymmetry in global patterns of ant species richness **Ecology Letters** 12: 324-333
33. Friedrich R*, Philpott SM. (2009) Nest-site limitation and nesting resources of ants (Hymenoptera: Formicidae) in urban green spaces. **Environmental Entomology** 38: 600-607
32. Philpott SM, Perfecto I, Vandermeer J, Uno S. (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
31. Philpott SM, Soong O, Lowenstein J, Pulido AL, Tobar-Lopez D, DeClerck FD. (2009) Functional traits and ecosystem services: Bird predation on arthropods in tropical agroecosystems. **Ecological Applications** 19: 1858-1867
30. Schroth G, Laderach P, Dempewolf J, Philpott S, Eakin H, Hagggar J, Castillejos T, Garcia Moreno J, Soto Pinto L, Hernandez R, Eitzinger A, Ramirez-Villegas, J. (2009) Towards a climate change adaptation strategy for coffee communities and ecosystems in the Sierra Madre de Chiapas, Mexico. **Mitigation and Adaptation of Strategies for Global Change** 14: 605-625

2008

29. De la Mora A**, Livingston G*, Philpott SM. (2008) Arboreal ant abundance and leaf miner

- damage in coffee agroecosystems. *Biotropica* 40: 742-746
28. Dietsch TV, Philpott SM. (2008) Linking consumers to sustainability: Incorporating science into eco-friendly certification. *Globalizations* 5: 247-258
 27. Greenberg R, Perfecto I, and Philpott SM. (2008) Agroforestry systems as model systems for tropical ecology. Special Feature in *Ecology* 89: 913-914
 26. Philpott SM, Arendt W, Armbrecht I, Bichier P, Dietsch T, Gordon C, Greenberg R, Perfecto I, Soto-Pinto L, Tejada-Cruz C, Williams G, Valenzuela J. (2008) Biodiversity loss in Latin American coffee landscapes: reviewing evidence on ants, birds, and trees. *Conservation Biology* 22: 1093-1105
 25. Philpott SM, Bichier P, Rice, R, and Greenberg, R. (2008) Biodiversity, yields, and farmer incomes in coffee agroecosystems: implications for ecological and economic sustainability in Sumatra, Indonesia. *Biodiversity and Conservation* 17: 1805-1820
 24. Philpott SM, Lin BB, Jha S, Brines SA. (2008) A multi-scale assessment of hurricane impacts based on land-use and topographic features. *Agriculture, Ecosystems, & Environment* 128: 12-20
 23. Philpott SM, Perfecto I, Vandermeer J. (2008) Behavioral diversity of predatory ants in coffee agroecosystems. *Environmental Entomology* 37: 181-191
 22. Philpott SM, Perfecto I, Vandermeer J. (2008) Effects of predatory ants on lower trophic levels across a gradient of coffee management complexity. *Journal of Animal Ecology* 77: 505-511
 21. VanBael SA, Philpott SM, Greenberg, R, Bichier P, Barber N, Mooney KA, Gruner D. (2008) Birds as top predators across natural and managed systems. Special Feature in *Ecology* 89: 928-934
 20. Vandermeer, J, Perfecto, I, Philpott SM. (2008) Clusters of ant colonies and robust criticality in a tropical agroecosystem. *Nature* 451: 457-460
 19. Vandermeer J, Perfecto I, Philpott SM, Chappell MJ. (2008) Reenfocando la conservación en el paisaje: la importancia de la matriz. Pages 75-104 in: J. Saenz, C. Harvey, editors. *Biodiversidad en Paisajes Fragmentados de Mesoamérica*. CATIE, Turrialba, Costa Rica
- 2007
18. Delabie JHC, Jahyn B, Cardoso de Nascimento I, Mariano CSF, Lacau S, Campiolo S, Schroth G, Philpott SM, Leponce, M. (2007) Contribution of cocoa plantations to the conservation of native ants (Insecta: Hymenoptera: Formicidae) with a special emphasis on the tropical Atlantic fauna of southern Bahia, Brazil. *Biodiversity and Conservation* 16: 2359-2384
 17. Dunn RR, Sanders NJ, Fitzpatrick MC, Laurent E, Lessard JP, Agosti D, Andersen A, Bruhl C, Cerda X, Ellison A, Fisher B, Gibb H, Gotelli N, Gove A, Guenard B, Janda M, Kaspari M, Longino JT, Majer J, McGlynn TP, Menke S, Parr C, Philpott S, Pfeiffer M, Retana J, Suarez A, Vasconcelos H. (2007) Global Ant Biodiversity and Biogeography--A New Database and its Possibilities. *Myrmecological News* 10: 77-83
 16. Perfecto I, Armbrecht I, Philpott SM, Soto-Pinto L, Dietsch TV. (2007) Shaded coffee and the stability of rainforest margins in Latin America. Pages 227-264 in: T Tschardtke, C Leuschner, M Zeller, E Guhadja, A Bidin, editors. *The stability of tropical rainforest margins, linking ecological, economic and social constraints of land use and conservation*. Springer, Environmental Science Series, Heidelberg and New York.
 15. Philpott SM, Bichier P, Rice, R, and Greenberg, R. (2007) Field testing ecological and

economic benefits of coffee certification programs. **Conservation Biology** 21: 975-985

2006

14. Jedlicka J, Greenberg R, Perfecto I, Philpott S, Dietsch, T (2006) Seasonal foraging niche shifts of tropical avian residents: resource competition at work? **Journal of Tropical Ecology** 22: 385-395
13. Philpott SM. (2006) Ant patchiness: a spatially quantitative test in coffee agroecosystems. **Naturwissenschaften** 93: 386-392
12. Philpott SM, Armbrrecht I. (2006) Biodiversity in tropical agroforests and the ecological role of ants and ant diversity in predatory function. **Ecological Entomology** 31: 369-377
11. Philpott SM, Perfecto I, Vandermeer J. (2006) Effects of management system and season on arboreal ant diversity and abundance in coffee agroecosystems. **Biodiversity and Conservation** 15: 139-155
10. Philpott SM, Uno S, Maldonado J. (2006) The importance of ants and high-shade management to coffee pollination and yield in Chiapas, Mexico. **Biodiversity and Conservation** 15: 487-501

2005

9. Philpott SM. (2005) Trait-mediated effects of parasitic phorid flies (Diptera: Phoridae) on ant (Hymenoptera: Formicidae) competition and resource access in coffee agroecosystems. **Environmental Entomology** 34: 1089-1094
8. Philpott SM. (2005) Changes in arboreal ant populations following pruning of shade trees in Chiapas, Mexico. **Agroforestry Systems** 64: 219-224
7. Philpott SM, Foster PF. (2005) Nest-site limitation in coffee agroecosystems: artificial nests promote maintenance of arboreal ant diversity. **Ecological Applications** 15: 1478-1485
6. Philpott SM, Greenberg R, Bichier P. (2005) The influence of ants on the foraging behavior of birds in an agroforest. **Biotropica** 37: 467-470

2004

5. Dietsch T, Philpott SM, Rice R, Greenberg R, Bichier P. (2004) Conservation policy in coffee landscapes. **Science** 303:365
4. Philpott SM, Greenberg R, Bichier P, Perfecto I. (2004) Impacts of major predators on tropical agroforest arthropods: comparisons within and across taxa. **Oecologia** 140:140-149
3. Philpott SM, Maldonado J, Vandermeer J, Perfecto I. (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

2003

2. Philpott SM, Dietsch T. (2003) Coffee and conservation: a global context and farmer involvement. **Conservation Biology** 17:1844-1846

2002

1. Vandermeer J, Perfecto I, Ibarra-Nuñez G, Philpott S, Garcia-Ballinas JA. (2002) Ants (*Azteca* sp.) as potential biological control agents in organic shade coffee production in Southern Chiapas, Mexico: Complication of indirect effects. **Agroforestry Systems** 56:271-276

Manuscripts in revisions (available on request)

1. Marín L**, Philpott SM, De la Mora A**, Ibarra G, Tryban S, Perfecto I. Response of ground

spiders to local and landscape factors in a Mexican coffee landscape. ***Agriculture, Ecosystems and Environment***.

2. Yitbarek S**, Philpott SM. Transitive dominance hierarchies and abundance patterns for a tropical arboreal ant community. ***Oecologia***

Manuscripts in review

1. Ennis KK**, Philpott SM. Arrival and survival: The strong influences of a dominant, ground nesting ant on the recruitment and establishment of ant colonies and communities. ***Oikos***

Other Professional Publications

1. Philpott SM. Local Food: A contributing force to conservation or a feel-good consumer movement? (2014) ***SNAP Magazine*** - <http://www.snap.is/magazine/local-food-locavore-environmentalism-conservation-philpott/>
2. Greenberg R, Perfecto I, Philpott SM. (2008). Brewing Biodiversity. ***Frontiers in Ecology and the Environment*** 6: 115
3. Philpott S. (2003) Book Review: The failure of modern agriculture and hope for the future. ***Endangered Species Update*** 20:194-198

GRANTS

Grants Received as a Faculty Member

- PI – 2015 – *Dissertation Research: Bats in the agricultural matrix: Impacts on diversity, distribution, and ecosystem services*. Funded by **National Science Foundation** Doctoral Dissertation Improvement Grant, (For PhD Student Elissa Olimpi, 6/1/15-5/31/16, \$16054)
- PI – 2015 – *The Birds: Providers of predation services in central coast urban gardens*. Funded by **Faculty Research Grant, U. of California, Santa Cruz** (7/1/15-6/30/16, \$1500)
- PI – 2014 - *Urban gardens in Santa Cruz and San Cristobal: A landscape for study of conservation biological control, cultural exchange, and student integration*. Funded by **UC-Mexus**, (H. Morales, ECOSUR - Mexico PI, 9/1/2014-8/31/2015, \$25,000)
- Co-PI – 2014 - *An institutional partnership model for sustainable agriculture curriculum development & recruitment of underrepresented students*. Funded by: **Driscoll's Community Foundation**, (D. Press (PI), 6/2014-6/2015, \$10,000).
- PI – 2014 - REU Supplement for *Testing multiple hypotheses of community assembly using a tropical insect: Twig-nesting ants in a coffee agroecosystem*. Funded by: **National Science Foundation**, Population and Community Ecology Program, (5/2014-9/2014, \$7600).
- PI – 2014 - *Insects as providers of ecosystem services in Santa Cruz area urban gardens: a novel data set and an opportunity for undergraduate research*, Funded by **Faculty Research Grant, U. of California, Santa Cruz** (7/1/14-6/30/15, \$1500)
- PI – 2013 - *An institutional partnership model for sustainable agriculture curriculum development & recruitment of underrepresented students*. Funded by: **USDA**, National Institute of Food and Agriculture, Higher Education Challenge Grant Program, (9/2013-8/2016, Co-PIs: D. Letourneau, C. Shennan, D. Press, \$730,893).
- PI – 2013 - REU Supplement for *Testing multiple hypotheses of community assembly using a tropical insect: Twig-nesting ants in a coffee agroecosystem*. Funded by: **National Science**

- Foundation**, Population and Community Ecology Program, (5/2013-9/2013, \$7976).
- PI – 2013 - *Insect biodiversity in Santa Cruz area urban gardens: Baseline data and an opportunity for undergraduate research*. Funded by: **New Faculty Research Grant, U. of California, Santa Cruz** (1/2013-6/2013, \$1852.65)
- PI – 2012 - *UT Outdoor Classroom Garden - A movement towards accessibility*. Funded by: **2012 GRO1000 Grassroots Grant Application** (6/2012-8/2012, \$500)
- PI – 2012 - *REU Supplement for Testing multiple hypotheses of community assembly using a tropical insect: Twig-nesting ants in a coffee agroecosystem*. Funded by: **National Science Foundation**, Population and Community Ecology Program, (5/2012-8/2012, \$7596).
- PI – 2011 - *REU Supplement for Testing multiple hypotheses of community assembly using a tropical insect: Twig-nesting ants in a coffee agroecosystem*. Funded by: **National Science Foundation**, Population and Community Ecology Program, (5/2011-8/2011, \$7727).
- PI – 2010 - *Testing multiple hypotheses of community assembly using a tropical insect: Twig-nesting ants in a coffee agroecosystem*. Funded by: **National Science Foundation**, Population and Community Ecology Program, (9/2010-8/2014, \$298,184).
- PI – 2009 - *Investigating tradeoffs between yield, income, pests, and diseases in organic coffee agroecosystems*. Funded by: **Organic Farming Research Foundation** (5/2009-1/2011, \$14,983).
- PI – 2009 - *The outdoor classroom: a garden gathering place for the UT community*. Funded by: **UT Women & Philanthropy Award** (5/2009-5/2010, Co-PIs: A. Krause, A. Pryor, C. Gilbert, all U. of Toledo, \$10,644).
- PI – 2008 - *Women, the environment and sustainability: Local and global perspectives and strategies on food production and acquisition*. Funded by: **UT Strategic Enhancement Award** (9/2008-9/2009, Co-PIs: A. Krause, A. Pryor, both U. of Toledo, \$16,000).
- PI – 2007 - *Arthropod biodiversity in urban habitats: determining the relative importance of parks, gardens, and abandoned lots and habitat features in Toledo*. Funded by: **UT Summer Research Award and Fellowships Program** (5/2007-5/2008, \$11,500).
- PI – 2006 - *A multi-scale approach to assessing hurricane damage to agricultural systems and landscapes of varying management intensity*. Funded by: **L'Óreal USA Fellowship for Women in Science** (6/2006-6/2007, \$20,000).

Grants Received as Postdoctoral Fellow or Graduate Student

1. Smithsonian Institution Research Award (2004, \$2400)
2. Smithsonian "Bird-friendly" Research Fund (2004, \$14,500)
3. Block Grant, U. of Michigan (2003, \$1809)
4. Rackham Discretionary Funds Award, U. of Michigan (2002, \$2500)
5. Helen Olsen Brower Memorial Fellowship, U. of Michigan (2002, \$6023)
6. Rackham Dissertation Thesis Grant, U. of Michigan (2002, \$2044)
7. Sokol International Research Fellowship, U. of Michigan (2000, \$5000)
8. Block Grant, U. of Michigan (2000, \$500)
9. Latin American and Caribbean Studies Field Research Grant, U. of Michigan (2000, \$500)
10. Block Grant, U. of Michigan (1999, \$1158)
11. Latin American and Caribbean Studies Research Grant, U. of Michigan (1999, \$880)
12. Patrick Stewart Human Rights Scholarship, Amnesty International (1996, \$1400)

TRAVEL AWARDS

- 2011 Faculty Travel Award, College of Natural Sciences & Mathematics (\$500)
 2011 Faculty Development Award from Provost, U. of Toledo (\$1000)
 2010 Kohler International Travel Grant, U. of Toledo (\$1000)
 2009 Kohler International Travel Grant, U. of Toledo (\$1000)
 2008 Kohler International Travel Grant, U. of Toledo (\$700)
 2007 Kohler International Travel Grant, U. of Toledo, (\$1000)
 2006 Kohler International Travel Grant, U. of Toledo, (\$500)
 2004 International Institute Travel Grant, U. of Michigan (\$300)
 2004 Rackham Graduate School Travel Grant, U. of Michigan (\$400)
 2002 Rackham Graduate School Travel Grant, U. of Michigan (\$400)

FELLOWSHIPS

- 2006 Earth Institute Postdoctoral Fellowship, Columbia University (*declined*)
 2006 American Association for University Women Postdoctoral Fellowship (*declined*)
 2004 Smithsonian Institution Postdoctoral Research Fellowship (2 years, \$66,400)
 1999 National Science Foundation Graduate Research Fellowship (3 year, \$90,000)
 1998 Regent's Fellowship, Rackham Graduate School, U. of Michigan (3 year, \$80,000)

INVITED TALKS

- Philpott SM (2014) Urban garden insect biodiversity: Fascinating and Functional. Leonardo Art/Science Evening Rendezvous (LASER), UCSC Institute of Arts and Sciences. 28 October
Philpott SM (2014) Contribuciones de la agricultura familiar a la mitigación y adaptación de los efectos del cambio climático. VJ Jornada Internacional de Agroecología, Universidad Autónoma Chapingo, Departamento de Agroecología. 22 October
Philpott SM, Jha S (2014) Ecosystem services and shade management in coffee agroecosystems: Ecology and application. In Organized Oral Session 46: Agroecology and its Applications, from Marine Kelp to Mountain Coffee. Ecological Society of America Annual Meeting, Sacramento, California, 10-15 August
Philpott SM (2014) Biodiversidad en las ciudades: huertos, plantas nativas, y insectos que proveen servicios ecosistemicos. Universidad de Puerto Rico, Utuado. 6 May
Philpott SM (2014) Brewing biodiversity and ecosystem services in the coffee agroecosystem. Women in Science and Engineering (WISE) Pub Talks at the Crepe Place. 12 March
Philpott SM (2013) Brewing biodiversity: complex food webs and ecosystem services in the coffee Agroecosystem. Diversified Farming Systems Group, UC Berkeley, Oct. 14, 2013
Philpott SM (2013) Biodiversidad, ensamblaje de especies y servicios ecosistemicos proporcionados por hormigas en un paisaje cafetalero de Chiapas, Mexico. Keynote address at IUSSI (International Union for the Study of Social Insects) Bolivarian Chapter Bi-Annual meeting, Cali, Colombia. 21 August
Philpott SM, Rudolphi J, Dominguez Martinez GH (2013) Biodiversity and community assembly of arboreal ants in a changing agricultural landscape in Chiapas, Mexico, Association for Tropical Biology and Conservation Annual Meeting, San Jose, Costa Rica
Philpott SM (2012) Brewing biodiversity: complex food webs and ecosystem services in the coffee Agroecosystem. Ecology, Evolution and Marine Biology, UC Santa Barbara.
Philpott SM, Cotton J, Friedrich R, Moorhead L, Pardee G, Uno S, Valdez M, Bichier P. (2012) Biodiversity in urban green spaces: factors driving predator and pollinator communities.

- Annual Meeting of the Ecological Society of America, Portland, Oregon.
- Philpott SM (2011) Ecología de formigas em agroecosistemas [*Ecology of ants in agroecosystems*]. Symposium talk at the XX Simposio de Mirmecología & Encuentra de Mirmecologistas de las Américas. Petropolis, Brazil, 16-20 October, 2011.
- Philpott SM, Soong O, Lowenstein JH, Pulido AL, Tobar-Lopez D, Flynn DFB, Bichier P, DeClerk F. (2011) Riqueza funcional y servicios ecosistémicos: depredación de artrópodos en agroecosistemas tropicales in III Congreso Mexicano de Ecología. Boca del Rio Veracruz, Mexico, 3-7 April 2011.
- Philpott SM. (2010) Ants in coffee agroecosystems: diversity, trophic interactions, and parasitism, Department of Biology, College of Wooster
- Philpott SM. (2010) Ants in coffee agroecosystems: diversity, trophic interactions, and parasitism, Department of Biology, University of Pittsburgh
- Philpott SM. (2009) The Ecology of Coffee. Coffee from the Grounds Up: Sustainability from Crop to Cup, University of Washington, Seattle, Washington
- Philpott SM. (2008) Impactos de Huracán Stan en el Soconusco: un análisis a múltiples escalas. Taller de Adaptación de Cambio Climático en la Comunidades Cafetaleras de la Sierra Madre de Chiapas. Workshop organized by Conservation International, CONAP, ECOSUR, Tuxtla Gutierrez, Chiapas, Mexico
- Philpott SM. (2008) Impactos de Huracán Stan en el Soconusco: un análisis a múltiples escalas, ECOSUR – Tapachula, Chiapas, Mexico
- Philpott SM. (2008) Esquemas de certificación de café: ¿promoviendo la vida campesina y la biodiversidad? Foro Bosques, Agricultura y Sociedad: Cultivando Nuevas Alianzas. San Cristobal de las Casas, Chiapas, Mexico
- Philpott SM. (2008) Biodiversity and ecosystem services in coffee agroecosystems. Specialty Coffee Association of America Annual Meeting, Minneapolis, MN
- Philpott SM. (2008) A multi-scale assessment of hurricane impacts in agricultural landscapes. Department of Geography and Planning, University of Toledo.
- Philpott SM. (2008). Biodiversity and ecosystem services in the coffee agroecosystem. Department of E3B, Columbia University
- Morales H, Soto-Pinto L, Philpott SM, Sekerciouglu CH, Altieri MA. (2007) How could agroecosystems contribute to conservation in Mesoamerican landscapes? Results from a survey of local experts. Organized Oral Session on Ecoagriculture: Restoring wild biodiversity, livelihoods, and ecosystem processes in agricultural landscapes. Annual Meeting of the Ecological Society of America, San Jose, California.
- Philpott SM, VanBael S, Greenberg R, Bichier P, Mooney KA, Barber NA, Gruner DS. (2007) Birds as predators in tropical agroforests. Organized Oral Session on Tropical Agroforests as Model Systems for Ecology. Annual Meeting of the Ecological Society of America, San Jose, California.
- Philpott SM, Perfecto I. (2007) Biodiversity, Ecological, and Economic Services in Coffee Agroecosystems. Symposium on Managing Tropical Agricultural Landscapes to Enhance Biodiversity. Annual Meeting of the Association for Tropical Biology and Conservation, Morelia, Mexico
- Philpott SM. (2007) Conservation, biodiversity, and ant community ecology in coffee agroecosystems, Department of Biological Sciences, Bowling Green State University
- Uno S, Lin BB, Philpott SM. (2007) Ecological and economic services in coffee agroecosystems. Organized Oral Session on Agricultural landscapes: Critical for biodiversity conservation and

ecosystem restoration. Annual Meeting of the Ecological Society of America, San Jose, California.

Philpott SM. (2006) Café, Coberatura, Producción y Biodiversidad: una meta-análisis de patrones en cafetales latinoamericanos, Project Corridor Working Group, CATIE, Costa Rica

Philpott SM, Armbrrecht I, Perfecto I. (2006) Ant community ecology in the coffee agroecosystem, Ant Community Ecology Symposium, International Union for the Study of Social Insects, 2006 Congress

Philpott SM. (2006) Ant Farming: What Ants Can Tell Us About Coffee and Conservation, National Zoo Evening Lecture Series, Washington, DC

Philpott SM. (2006) Biodiversity function, conservation, and certification in coffee agroecosystems, Department of Environmental Studies, Antioch New England Graduate School

Philpott SM. (2006) Biodiversity function, food webs, and conservation in coffee agroecosystems, Dept. of Earth, Ecological and Environmental Sciences, University of Toledo

Philpott SM. (2005) Biodiversity, conservation, and certification in coffee agroecosystems. Wildlife Conservation Society Indonesia Program, Bogor

Philpott SM. (2004) Biodiversity function and conservation in coffee agroecosystems in Chiapas, Mexico. Agroecology Department, University of Göttingen, Germany

Philpott SM. (2004) La diversidad, ecología, y función de las hormigas arbóreas en agroecosistemas de café en Soconusco, Chiapas, México. El Colegio de la Frontera Sur, Tapachula, Chiapas, México

Philpott SM, Greenberg R, Bichier P, Perfecto I. (2004) Impacts of ant and bird predators on *Inga* spp. arthropods: comparisons within and across taxa. Nectar and Honeydew Resources Symposium, Association for Tropical Biology and Conservation Annual Meeting, Miami.

Philpott S, Armbrrecht I, Uno S, Gallego M. (2003) Ecosystem function in coffee agroecosystems of Mexico and Colombia. In: Ecological Society of America Annual Meeting, Agroecology Symposium, Savannah, Georgia

Philpott S, Uno S. (2003) The potential benefits of ants to coffee pollination under high-shade management. In: Ecological Society of America Annual Meeting, Workshop: Exploring the role of ecologists and scientific research in the current international coffee crises, Savannah, Georgia

CONTRIBUTED PAPERS

* Undergraduate advisee, ** Graduate advisee

Bichier P, and Philpott SM. (2009) The impact of the coffee technification process on bird diversity, density, and guild structure in Finca Irlanda, Chiapas, Mexico. Annual Meeting of the Ecological Society of America, Albuquerque, New Mexico

Bichier P, Albuquerque S*, Otoshi M*, Quistberg R*, Philpott SM (2014) Arthropod and predator abundance and the potential for ecosystem services in California central coast urban gardens. Ecological Society of America Annual Meeting, Sacramento, California, 10-15 August.

De la Mora A**, Perez-Lachaud G, Lachaud J-P, Philpott SM. (2015) Factores locales y de paisaje que modelan el parasitismo de hormigas en un paisaje de café. Oral presentation at the V Congreso Mexicano de Ecología, San Luis Potosí, Mexico. 19-24 April.

De la Mora A**, Murnen C*, Philpott SM. (2011) Diversidad y abundancia de cuatro gremios de

- hormigas y su relacion con factores locales y regionales en paisajes de café en Chiapas, Mexico. [*Diversity and abundance of four ant guilds and local and landscape predictors of ant communities in Chiapas, Mexico*]. Oral presentation at the XX Simposio de Mirmecologia & Encuentra de Mirmecologistas de las Amerias. Petropolis, Brazil, 16-20 October, 2011.
- De la Mora A**, Philpott S. (2009). Arboreal twig-nesting ants and agricultural matrix quality: colonization, species richness, and reproductive success. Annual Meeting of the Entomological Society of America, Indianapolis, Indiana
- DeClerck F, Mayfield M, and Philpott S. (2009) Conservation of functional diversity in temperate and tropical agricultural landscapes: patterns and mechanisms at farm and landscape scales. In 2nd World Congress of Agroforestry, Nairobi, Kenya
- Ennis K**, Philpott SM (2013) Nutrient limitation in ants along a habitat and elevation gradient. Association for Tropical Biology and Conservation Annual Meeting, San Jose, Costa Rica
- Ennis K**, Philpott SM (2014) Arrival and survival: Influences of a dominant, ground-nesting ant on arboreal ant colonies and communities. Ecological Society of America Annual Meeting, Sacramento, California, 10-15 August.
- Gonthier D**, Iverson A, Perfecto I, Philpott SM, Vandermeer J (2011) Coffee agricultural intensification alters resource use and the ecological role of arboreal ants. Oral presentation at the XX Simposio de Mirmecologia & Encuentra de Mirmecologistas de las Amerias. Petropolis, Brazil, 16-20 October, 2011.
- Gonthier D**, Philpott SM, Dominguez GH, Witter JD, Spongberg AL. (2010) Effects of plant quality on an insect food web in a complex tropical coffee agroecosystem. Annual Meeting of the Ecological Society of America, Pittsburg, Pennsylvania
- Gonthier D**, Dominguez G, Philpott S. (2009) The influence of nutrient availability on an insect food web in a tropical coffee agroecosystem. Annual Meeting of the Entomological Society of America, Indianapolis, Indiana
- Gonthier D**, Philpott SM (2009) The effect of the ant, not the mutualism: *Azteca instabilis* ants impact herbivore and tropical tree in Chiapas, Mexico. Scholars' Celebration / Sigma Xi Student Research Symposium, Toledo, OH
- Gonthier, D**, Iverson A, Hajian-Forooshani Z, Ennis K**, Kuesel R, Philpott SM, Perfecto I (2014) Biodiversity, foodweb complexity, and autonomous pest control in coffee agroecosystems. Ecological Society of America Annual Meeting, Sacramento, California, 10-15 August.
- Jimenez-Soto E**, Philpott SM (2014) Size matters: Nest colonization patterns for twig-nesting ants. Ecological Society of America Annual Meeting, Sacramento, California, 10-15 August.
- Livingston GF*, and Philpott SM. (2009) Component models of assembly in a metacommunity of tropical arboreal ants. Annual Meeting of the Ecological Society of America, Albuquerque, New Mexico
- Marin L**, De la Mora A**, Philpott SM, Perfecto I (2011) Leaf litter spider diversity in coffee landscapes: The influence of management type. Annual Meeting of the Ecological Society of America, Austin, Texas.
- Mooney KA, Gruner DS, Barber NA, Philpott SM, VanBael SA, and Greenberg R. (2009) Cascading effects of birds, bats and lizards: A meta-analysis of terrestrial insectivore exclusion studies. Annual Meeting of the Ecological Society of America, Albuquerque, New Mexico
- Moorhead L*, Philpott SM (2008). Epiphyte diversity in a coffee agroecosystem. Scholars' Celebration / Sigma Xi Student Research Symposium, Toledo, OH
- Pardee G*, Philpott SM. (2009) A complex trophic interaction in a coffee agroecosystem: effects of a parasitic phorid fly on ants and the coffee berry borer. Annual Meeting of the

- Entomological Society of America, Indianapolis, Indiana
- Pardee G*, Philpott SM. (2009). Cascading indirect effects in a coffee agroecosystem: Effects of a parasitic phorid fly on ants and the coffee berry borer in a high-shade and low-shade habitat. Scholars' Celebration / Sigma Xi Student Research Symposium, Toledo, OH
- Philpott SM, Gonthier D**, Pardee G*. (2010) Trait-mediated effects of a host-specific ant parasite on multi-predator effects: Phorids, ants, and the coffee berry borer. Annual Meeting of the Ecological Society of America, Pittsburg, Pennsylvania
- Philpott SM. (2009) Assembly of a twig-nesting ant community: disturbance as a window to non-neutral processes. Annual Meeting of the Entomological Society of America, Indianapolis, Indiana
- Philpott SM. (2009) Assembly of a twig-nesting ant community: Disturbance as a window to non-neutral processes. Annual Meeting of the Ecological Society of America, Albuquerque, New Mexico
- Philpott SM. (2006) Changes in ant predatory function across a gradient of coffee management complexity. In Ecological Society of America Annual Meeting, Memphis, Tennessee
- Philpott SM (2006) Field-testing fair-trade, organic and shade coffee certification: bird, ant, and vegetative diversity in Chiapas, Mexico. In: Ecology in the Age of Globalization, Ecological Society of America Meeting, Merida, Mexico
- Philpott SM and Dietsch T. (2005) Bird-Friendly and Fair Trade Certification: Linking Consumers to Sustainability. In: Trading Morsels, Growing Hunger, Decimating Nature: Linking Food and Trade to Development and the Environment. Princeton Institute for International and Regional Studies
- Philpott S. (2004) Limitación de nidos y control biológico en agroecosistemas del café: nidos artificiales mantienen diversidad de hormigas arbóreas, I Congreso para el Desarrollo de las Zonas Cafetaleras, Tapachula, Chiapas, México
- Philpott S. (2003) Trophic cascades: Effects of parasitic phorid flies on ant behavior. In: Ecological Society of America Annual Meeting, Savannah, Georgia
- Philpott S. (2003) Book Review: The failure of modern agriculture and hope for the future. Endangered Species Update 20:194-198
- Philpott S. (2002) The insurance hypothesis of biodiversity function: an empirical test of ant predators in coffee agroecosystems. In: Ecological Society of America Annual Meeting, Tucson, Arizona
- Philpott S. (1997) Exotic ladybird beetles in Washington prairies and their interactions with native ants. In: Dunn P and Ewing K (eds) The Ecology and Conservation of the South Puget Prairie Landscape. The Nature Conservancy, Seattle, Washington, pp 141-147

CONTRIBUTED POSTERS

* Undergraduate advisee, ** Graduate advisee

- Albuquerque S*, Bichier P, Otoshi M*, Quistberg R*, Philpott SM (2014) Beetles in urban gardens: Local and landscape characteristics of abundance. Ecological Society of America Annual Meeting, Sacramento, California, 10-15 August.
- Cohen H**, Philpott SM (2014) Landscape drivers of pollination services in urban gardens. Ecological Society of America Annual Meeting, Sacramento, California, 10-15 August.
- De la Mora A**, Philpott SM. (2009) Colonization of rotting wood by ground-foraging ants in

- coffee agroecosystems: Does diversity and coffee management matter? Scholars' Celebration / Sigma Xi Student Research Symposium, Toledo, OH
- Fisher K, Iverson A, Gonthier D**, Ennis K**, Kuesel R, Hajian-Forooshani Z, Quistberg R*, Vaidya C, Bichier P, Cruz L, Sibley Y*, Philpott SM, Perfecto I (2014) Contrasting responses of different taxonomic groups to local and landscape agricultural factors. Ecological Society of America Annual Meeting, Sacramento, California, 10-15 August.
- Gillette PN*, Ennis K**, Philpott SM (2014) Changes in species richness, abundance, and community composition of arboreal twig-nesting ants along an elevational gradient. Ecological Society of America Annual Meeting, Sacramento, California, 10-15 August.
- Gonthier DJ**, Philpott SM, and GH Dominguez. (2009) Influences of nutrient availability on coffee host plant quality and a complex insect food web in a tropical agroecosystem. Annual Meeting of the Ecological Society of America, Albuquerque, New Mexico
- Moorhead LC*, Philpott SM, and Bichier B. (2009) Epiphyte biodiversity and the coffee agricultural matrix: Canopy stratification and distance to forest fragments. Annual Meeting of the Ecological Society of America, Albuquerque, New Mexico
- Murnen C*, Philpott S. (2009) Examining the effects of tropical canopy removal within agricultural plots on leaf litter Formicidae. Annual Meeting of the Entomological Society of America, Indianapolis, Indiana
- Numbers E*, Weintraub M, Philpott SM (2012) Correlations between soil quality and arthropod communities in organically managed farms in NW Ohio. Annual Meeting of the Ecological Society of America, Portland, Oregon.
- Otoshi M*, Philpott SM, Bichier P (2014) Friendly neighborhood spiders: Factors driving abundance and biodiversity in urban gardens. Ecological Society of America Annual Meeting, Sacramento, California, 10-15 August.
- Pardee G*, Philpott SM. (2010) Cascading indirect effects in a coffee agroecosystem: Effects of a parasitic phorid fly on ants and the coffee berry borer in a high-shade and low-shade habitat. Annual Meeting of the Ecological Society of America, Pittsburg, Pennsylvania
- Pardee G*, Philpott SM (2010) A complex trophic interaction in a coffee agroecosystem: Effects of a parasitic phorid fly on ants and the coffee berry borer. Posters at the Capitol: Undergraduate Research in Northwest Ohio, Columbus, OH.
- Philpott SM, Murnen C*, Gonthier D**, Dominguez GH. (2011) Food webs in the litter: Effects of food addition on decomposition and ant communities in coffee agroecosystems. Annual Meeting of the Ecological Society of America, Austin, Texas.
- Quistberg R*, Philpott SM, Bichier P, Otoshi M*, Albuquerque S* (2014) Landscape and local correlates of bee abundance and species richness in urban community gardens. Ecological Society of America Annual Meeting, Sacramento, California, 10-15 August.

TEACHING EXPERIENCE

Faculty Instructor while at UCSC

Ant Course, Estacion Biologica Villa Carmen, Peru (2013)

Agroecology Practicum (Undergrad, 2014)

Ecology and Society (Undergrad, 2015)

Insect Ecology, University of California (Undergrad, Winter 2013, Fall 2013, Spring 2015)

Faculty Instructor while at U of Toledo

Agroecology (Undergrad/Grad, Fall 2009, 2011)
Biodiversity, Conservation, and Ecosystem Services in Managed Landscapes, NCEAS Distributed Graduate Seminar (Grad, Spring 2007)
Conservation Biology, (Undergrad/Grad, 2008-present)
Down-to-Earth, Environmental Science for non-majors (Undergrad, 2011)
Environmental Problems Laboratory for non-majors, (Undergrad, 2007-2011)
Introduction to Environmental Studies, University of Toledo (Undergrad, 2007-2011)

Instructor while at U of Michigan

Ecology, Conservation, and Development in the New World Tropics (taught in Spanish), University of Michigan Residential College (Undergrad, Fall 2003)

Graduate Student Instructor

Neotropical Rainforest Dynamics, (taught in Nicaragua in Spanish), University of Michigan (Undergrad/Grad Spring 2001-2004)
Biology and Human Affairs, University of Michigan (Undergrad, Fall 2001)
Introductory Biology, University of Michigan (Undergrad, Spring 1999)

Guest Lecturer

Natural Resource Management, School for Field Studies, Costa Rica (Undergrad, Fall 2005)
Ecology of Agroecosystems, University of Michigan (Undergrad/Grad, Fall 2002)
Laboratory in Field Ecology, University of Michigan (Grad, Fall 2001-2002, 2006, 2008-2011)

GRADUATE STUDENTS

Acting as Major Advisor

Student	University	Degree	Dates	Thesis Title or Topic
Marcela Cely Santos	UCSC	PhD	2014-present	Cross-pollinating agriculture, ecosystems, and food: Human/bee relationships in Colombia
Monika Egerer	UCSC	PhD	2014-present	Ecosystem services and citizen science in urban gardens in Central Coast CA
Hamutahl Cohen	UCSC	PhD	2013-present	Bee conservation and bee symbionts in urban gardens
Elissa Olimpi	UCSC	PhD	2013-present	Bat diversity and pest control in an agricultural matrix: Central Coast CA
Estelí Jimenez-Soto	UCSC	PhD	2012-present	Context-dependency of ant-parasitoid-pest interactions in coffee agroecosystems
Katherine Ennis	UCSC	PhD	2010-present	Ant communities and climate change in coffee agroecosystems
Aldo De la Mora	ECOSUR, Mexico	PhD	2008-2014	Ants in coffee farms: A study about matrix quality in coffee farms in the Soconusco, Chiapas, Mexico

Jahnine Blosser	U of Toledo	MS	2009-2012	Closing the nutrient cycle: What are the challenges and opportunities?
Melissa Hooker	U of Toledo	MS	2009-2011	Grass-fed or grain-fed: Comparing environmental and health impacts of beef production from factory farms and small-scale grazing operations
Russell Friedrich	U of Toledo	MS	2008-2010	The short term impacts of burning and mowing on prairie ant communities of the Oak Openings region
David Gonthier	U of Toledo	MS	2008-2010	Influence of soil quality on coffee plant quality and a complex tropical food web
Audrey Bobak	U of Toledo	MS	2008-2009	Common Buckthorn (<i>Rhamnus cathartica</i>) as a successful invader: A mechanistic approach
Hector Henao*	U. del Valle, Colombia	MS	2006-2008	Predatory activity of ants in shaded and unshaded coffee farms in the Cauca Valley, Colombia

* Co-advised

Acting as Graduate Committee Member

Student	University	Degree	Dates	Title or Topic
Leonardo Rivera	U. del Valle, Colombia	PhD	2015-present	Franjas con vegetación natural como estrategia para aumentar servicios ecológicos en un paisaje cañero, Valle del Cauca
Rick Flores	UCSC	PhD	2015 - present	Indigenous agricultural systems and knowledge of the Amah Mutsen tribes
Adrian Lu	UC Berkeley	PhD	2014-present	Agroecology and conservation biology
Alicia Calle	UCSC	PhD	2013-present	Restoration and farmer decision making in silvopastoral systems in Colombia
Chun-Chia Huang	Texas Tech U	PhD	2010-present	The Diversity, ecological and economic services of bats in a coffee agriculture-forest landscape in Southwestern Sumatra, Indonesia
Michelle Phillips	U of Toledo	MS	2010-2012	Heat stress impacts on plant-herbivore interactions
Kaitlyn Mathis	UC Berkeley	PhD	2009-2015	Behavioral and chemical ecology of ants (Hymenoptera: Formicidae) and their natural enemies in dynamic coffee agroecosystems

David Gonthier	U of Michigan	PhD	2009-2014	Causes and consequences of diversity, complexity, and autonomous ecosystem services in coffee agriculture
Linda Marin	U of Michigan	PhD	2008-2013	The Diversity and ecology of spiders in coffee agroecosystems in the Soconusco Region, Chiapas, Mexico
Michelle Reed	U of Toledo	MS	2010-2012	Increasing urban food security in the local food system of Toledo, Ohio
Audra Croskey	U of Toledo	MS	2007-2009	Evaluating the costs of the emerald ash borer invasion in Ohio
Julie Cotton	U of Michigan	MS	2007-2009	A study of beetle biodiversity in the forests, gardens, and vacant lots of Detroit
Dan Wang	U of Toledo	PhD	2006-2008	Effects of CO ₂ and N on plant response to heat stress

UNDERGRADUATE STUDENTS & POSTGRADUATE RESEARCHERS

Undergraduate Honors Theses Advised

18. Robyn Quistberg, UCSC, EEB - "Local, landscape and density divers of parasitism of honey and bumble bees by *Apocephalus* phorid flies in urban agroecosystems"
17. Maycee Hash, UCSC, EEB - "Impacts of ground cover type on the foraging and behavior of ground-dwelling spiders"
16. Robyn Quistberg, UCSC, ENVS - "Abundance and richness of bees in urban gardens in the California Central Coast" (2014)
15. Michelle Otoshi, UCSC, EEB - "Abundance and richness of spiders in urban gardens in the California Central Coast" (2014)
14. Iris Rivera, Dept. de Agroecologia, Universidad Autonoma Chapingo, Mexico - "Density and sugar resource impacts on predation by the coffee berry borer" (in progress)
13. Penelope Gillette, UCSC, ENVS - "Changes in species richness, abundance, and community composition of arboreal twig-nesting ants along an elevational gradient" (2014)
12. Simone Albuquerque, UCSC, EEB, "Abundance of predatory beetles in urban gardens" (2014)
11. Henry Lydecker, UCSC, ENVS - "Abundance and richness of arthropods in redwood understory dominated by native and exotic plants" (2013)
10. Cody Wilson, UCSC, EEB - "Trophic composition of arthropods in redwood understory dominated by native and exotic plants" (2013)
9. Elan Goldbart, UCSC, ENVS - "Student-centered learning in agroecology and sustainable food systems" (2013)
8. Justin Burdine, U. of Toledo, "Abundance and diversity of leafhoppers in coffee agroecosystems" (2012)
7. Katlynd Reese, U. of Toledo, "A tale of three phorids: Activity and abundance of phorids in coffee agroecosystems" (2011)
6. Heather Houdeshell, U. of Toledo, "The effects of prescribed savanna burns on cavity nesting ants in the Oak Openings region of Ohio" (2010)

5. Leigh Moorhead, U. of Toledo. “Abundance, diversity, and composition of spiders in urban green spaces in Toledo” (2010)
4. Cody Murnen, U. of Toledo, “Effects of shade tree cutting on leaf litter ant assemblages in coffee agroecosystems in Chiapas, Mexico” (2010)
3. Gabriella Pardee, U. of Toledo, “Effects of phorid flies on the coffee berry borer” (2010)
2. Russell Friedrich, University of Toledo. “Nest-site limitation and nesting resources of ants (Hymenoptera: Formicidae) in urban green spaces” (2007)
1. Kaitlyn Mathis, Hampshire College. “Chemical ecology of Azteca-Pseudacteon relationships in coffee agroecosystems” (2007)

Other Undergraduate Research Projects Advised

Courtney Arel, UCSC, “The spatial scale of landscape effects on urban garden arthropods” (2015)
 Stephanie Coronado, UCSC, “Morphological distribution of twig-nesting ants” (2013)
 Anna Brown, UCSC, “Identification of *Camponotus* spp. ants from coffee agroecosystems (2013)
 Emily Numbers, U. of Toledo, “Arthropods and soil quality in organic farms in NW Ohio” (2012)
 Zak VanLoocke, U. of Toledo. “Diversity and abundance of moths in a coffee landscape” (2012)
 Gabriella Pardee, U. of Toledo. “Influences of native plants on bees in backyard gardens” (2011)
 Monica Valdez, U. of Toledo. “Beetle abundance and diversity in urban spaces in Toledo” (2010)
 Leigh Moorhead, U. of Toledo. “Epiphyte communities in coffee plantations in Mexico” (2008)
 Audrey Bobak, U. of Toledo. “Comparing soil arthropod diversity in urban gardens” (2007)

Additional Undergraduate Students and Post-graduates Mentored

Jorge Cabrera Santos, Universidad Autónoma de Chiapas, 2003; Freddy Camposeco Silvestre, Universidad Autónoma de Chiapas, 2003; Aaron Hammond, UCSC, 2003; Randall Hartmann, UT, 2007-2008; Lucille Herrick, UT, 2006-2007; Ashley Larsen, UM, 2008-2009; George Livingston, UM, 2006-2008; Matthew R. Naujoks, UT, 2007; Christine Pfouts, UT, 2007-2008; Zak Vanloocke, UT, 2010-present, Jacob Miles Villa, UCSC, 2012-2013, Casey Wing, UCSC 2013, Simone Albuquerque, 2013, Maycee Hash, UCSC 2012-2014, Courtney Arel, UCSC 2014, Rhianna Hruska, UCSC 2013-2014.

STUDENT ADVISEE AWARDS, FELLOWSHIPS, AND SCHOLARSHIPS

****Since 2006, my students have received >\$250,000 in research funding and awards**

2015

- Heller Agroecology Graduate Fellowships (\$2000 each) - Katherine Ennis, Hamutahl Cohen, Elissa Olimpi, Estelí Jimenez-Soto, Monika Egerer, Marcela Cely
- David Gaines Award in Environmental Studies (\$1000) – Katherine Ennis

2014

- SCWIBBLES Teaching Fellowships - (\$25,000 each) - Hamutahl Cohen, Elissa Olimpi
- Bat Conservation International Grant (\$2800) - Elissa Olimpi
- Chancellors Graduate Internship Program Fellowship (\$30,000) - Katherine Ennis
- UC Mexus Graduate Scholarship (\$2000) - Katherine Ennis
- Heller Agroecology Graduate Fellowships (\$2000 each) - Katherine Ennis, Hamutahl Cohen, Estelí Jimenez-Soto

- Heller Agroecology Undergraduate Scholarship (\$2000) - Robyn Quistberg
- Daniel Gaines Award in Environmental Studies (\$600) - Hamutahl Cohen
- UC-Mexus Graduate Scholarship (\$1500) - Esteli Jimenez-Soto
- UC Santa Cruz Women's Club Scholarship (\$1500) – Katherine Ennis

2013

- Graduate Women in Science Scholarship (\$5000) - Katherine Ennis
- American Philosophical Society, Lewis and Clark Exploration Fund (\$4000) – Katherine Ennis
- Environmental Studies Department Scholarship (\$900) - Esteli Jimenez-Soto
- PEO International Peace Scholarship (\$9000) - Esteli Jimenez-Soto

2012

- Outstanding Graduating Senior Award for Department of Environmental Sciences – Gabriella Pardee
- Undergraduate Summer Research and Creative Activities Program, U. of Toledo (\$3000) – Emily Numbers

2011

- C.V. Wolfe Scholarship, U. of Toledo (\$630) - Justin Burdine
- First Year Summer Research Experience program, U. of Toledo (\$3000) – Emily Numbers
- Jeffrey A. Black Scholarship, U. of Toledo (\$1200) – Gabriella Pardee
- Sigma-Xi Grant-in-Aid of Research (\$800) – Katherine Ennis
- UT-NSF-Undergraduate Research and Mentoring program (\$24,000) – Emily Numbers

2010

- Conservation International Research Award (\$5000) – Aldo De la Mora
- NSF Graduate Research Fellowship (\$90,000 plus tuition waiver) – David Gonthier
- Ohio Environmental Science Scholarship, Ohio Academy of Science (\$3500 each) – Cody, Murnen and Gabriella Pardee
- Outstanding Graduating Senior Award for Department of Environmental Sciences – Heather Houdeshell
- Sigma-Xi Grant-in-Aid of Research (\$400) - David Gonthier
- Student Achievement in Research and Scholarship Award (\$800) – Monica Valdez
- Undergraduate Summer Research and Creative Activities Program, U. of Toledo (\$3000) – Cody Murnen
- Youth Activity Fund Grant, Explorer's Club (\$2000) – Cody Murnen

2009

- Sigma-Xi Grant-in-Aid of Research (\$800) - David Gonthier
- Society for Integrative and Comparative Biology Grant in Aid (\$1000) -- David Gonthier
- Toledo Naturalists Association Research Award (\$1000) -- Russell Friedrich
- Undergraduate Summer Research and Creative Activities Program, U. of Toledo (\$3000) – Gabriella Pardee
- U. of Toledo Sigma-Xi Research Symposium, Best Undergraduate Presentation – Leigh Moorhead, 2009
- U. of Toledo-NSF-Undergraduate Research and Mentoring program (\$24,000) – Gabriella Pardee

2008

- Undergraduate Summer Research and Creative Activities Program, U. of Toledo – (\$3000) Leigh Moorhead
- Outstanding Graduating Senior Award for Department of Environmental Sciences – Russell Friedrich

2007

- Undergraduate Summer Research and Creative Activities Program, U. of Toledo (\$3000 per student) – Russell Friedrich & Audrey Bobak

UNIVERSITY SERVICE**University of California, Santa Cruz**

Curriculum Committee, Environmental Studies Department (2012-)

Director, Sustainable Living Center & Program in Community and Agroecology (SLC/PICA) (2013-)

Chair, Faculty Search Committee for position in Political Economy of the Global South (2014-2015)

South Campus Council (2012-)

Pepper-Gibberson Selection Committee, Environmental Studies Department (2013)

2013 Martin M. Chemers Award for Outstanding Research Selection Committee (2013)

Haybarn Programming and Building Committee (2013-2014)

University of Toledo

Faculty Advisor for the Society for Environmental Education (S.E.E.) (2007-2012)

Graduate Affairs Committee, Dept. of Environmental Sciences (2011-2012)

Search Committee, Dean College of Literature, Language and Social Sciences (2010)

Student Awards Committee, Dept. of Environmental Sciences (2007-2012)

Undergraduate Affairs Committee, Dept. of Environmental Sciences (2007-2012)

Undergraduate Academic Advisor, Dept. of Environmental Sciences (2010-2012)

Undergraduate Honors Advisor, Dept. of Environmental Sciences (2006-2012)

Undergraduate Research Coordinator, Dept. of Environmental Sciences (2006-2012)

Undergraduate Recruitment Committee, Dept. of Environmental Sciences (2006)

University of Toledo Outdoor Garden Classroom Steering Committee (2008-2012)

University of Toledo Outdoor Garden Classroom Steering Committee Chair (2010-2012)

University of Michigan

Diversity Committee, Department of Ecology and Evolutionary Biology (2003-2004)

EDITORIAL SERVICE

Member of Editorial Board of *Biotropica* (2013-present)

Member of Editorial Board of *Agroecology and Sustainable Food Systems* (2012-present)

Guest editor for *Ecology* Special Feature “*Agroforests as Model Systems for Tropical Ecology*” with R. Greenberg and I. Perfecto, 2007 (Subject editor for 2 of 5 manuscripts)

Guest editor for *Conservation Biology*, 2008

Reviewer for Journals (120+ manuscripts)

Acta Oecologia, African Journal of Plant Science, Agricultural and Forest Ecology, Agriculture, Ecosystems, and Environment, Agroforestry Systems, American Naturalist, Animal Biology, Australian Journal of Entomology, Biodiversity and Conservation, Biological Conservation, Biological Invasions, Biology Letters, Biological Journal of the Linnaean Society, BioMED, Biotropica, Bird Conservation International, Caribbean Journal of Science, Conservation Biology, Conservation Letters, Ecography, Ecology, Ecological Applications, Ecological Entomology, Ecological Monographs, Ecoscience, Environmental Entomology, Ethology, Ecology and Evolution, Frontiers in Ecology and the Environment, Global Change Biology, Insect Diversity and Conservation, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Applied Entomology, Journal of Avian Biology, Journal of Field Ornithology, Natural Hazards, Naturwissenschaften, Oecologia, Oikos, Proceedings of the Royal Society of London B, Psyche, Revista Brasileira de Entomologia

Grant Reviewer (40+ proposals)

Grant Agency, Academy of Sciences of the Czech Republic, Earthwatch, EFE Postdoctoral Fellowship Program, Natural Environment Research Council, Colciencias, National Science Grant Agency of Colombia, National Science Foundation (external reviews, panelist in 2012), National Geographic Society, MJ Murdock Foundation

OTHER SERVICE

Participant in National Center for Ecological Analysis and Synthesis (NCEAS) Working Group “Biodiversity and Conservation Value of Agricultural Landscapes of Mesoamerica”, 2005

Organizer of Organized Oral Session, “Tropical agroforestry as model systems for ecology”, Ecological Society of America Annual Meeting, San Jose California, 2007

PROFESSIONAL SOCIETIES

Association for Tropical Biology and Conservation, Association for Women in Science, Ecological Society of America, Entomological Society of America, Graduate Women in Science, Society for Conservation Biology

LANGUAGE ABILITIES

English, Spanish – Fluent

French – Good comprehension and reading ability

UNDERGRADUATE RESEARCH EXPERIENCE

1998, Field Assistant, Fundación Defensores de la Naturaleza, Guatemala (for A. Dix)
Censused birds, howler monkey, river turtles. Assisted in eco-tourism projects.

1998, Field Assistant, Asociación ANAI, Talamanca, Costa Rica (for D. Lynch)

Maintained a farm and trails in an agroforest preserve, patrolled sea turtle nesting beaches.

1995–97, Research Technician, U. of Washington, Dept. of Zoology (for P. Kareiva)

Coordinated studies on ladybird beetles and tri-trophic interactions in Washington. Studied pollination limitation of a rare prairie plant. Supervised undergraduate projects.

- 1996, Field Assistant, U. of Washington, Dept. of Zoology (for E. K. Steinberg)
Researched pocket gophers in the South Puget Sound area.
- 1996, Field Assistant, Community Baboon Sanctuary, Belize (for R. Brockett)
Surveyed lowland forest vegetation and observed howler monkey behavior.
- 1996, Field Assistant, Bacalar Chico Project, Ambergris Caye, Belize (for J. Azueta)
Volunteered at a proposed terrestrial and marine reserve site.
- 1995, Field Assistant, U. of Washington, Dept. of Zoology (for C. Schultz)
Researched the Fender's blue butterfly and its prairie habitat in Oregon with population censuses, behavioral observations, larval biology studies, and vegetation analyses.
-

VOLUNTEER EXPERIENCE

New World Agricultural and Ecology Group (NWAEG):

1998 – Present, *Participates in discussions, article writing, short-course organizing as relating to the problems of contemporary agriculture and ecology, hunger, poverty, and class differences while working towards technical and social solutions to problems.*

Amnesty International:

- 1996, Patrick Stewart Human Rights Scholar in Guatemala
Worked as a human rights observer with CONAVIGUA, an indigenous widow's organization.
- 1994-98, Puget Sound Board of Directors
Organized state and regional conferences. Advised 15-20 high school and college groups.
- 1994-98, Trainer/Public Speaker
Spoke as representative at schools and community events. Led activism workshops.
- 1991-98, U. of Washington Chapter
Coordinated group activities, campaigns, planned events and fund-raisers, wrote letters.

Greenpeace, Student Conservation Association, and WashPIRG:

1994-98, *Participated in invasive plant removal, neighborhood cleanups, lobbying, demonstrations, fund-raising, and letter writing.*

Organic Farm

1994, *Worked as a field hand for three weeks on an organic farm in Central France*
