

**Gerardo R. Camilo, Ph.D.**  
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Department of Biology  
Saint Louis University

### **Education**

1992 Doctor of Philosophy, Department of Biological Sciences, Texas Tech University, Lubbock, Texas.  
1988 Master of Science, Department of Entomology, Texas Tech University, Lubbock, Texas.  
1986 Bachelor of Science, Department of Biology, University of Puerto Rico at Mayagüez.

### **Academic Appointments**

2018-present Professor, Department of Biology, Saint Louis University, St. Louis, Missouri.  
2002-2018 Associate Professor, Department of Biology, Saint Louis University, St. Louis, Missouri.  
1995-2002 Assistant Professor, Department of Biology, Saint Louis University, St. Louis, Missouri.  
2014-present Professor, Bioinformatics and Computational Biology, Saint Louis University.  
2005-2018 Associate Professor, International Studies, Saint Louis University.  
2003-present Conservation Fellow, St. Louis Zoo, St. Louis, Missouri.  
1993-1995 Research Scientist I, Terrestrial Ecology Division, University of Puerto Rico.  
Assisted in the management of El Verde Field Station, Rio Grande, Puerto Rico.  
1992-1993 Post-doctoral Research Associate, Department of Biological Sciences, Texas Tech University, Lubbock, TX.

### **Recognitions and Awards**

2021 Core Innovation Fellow, Saint Louis University  
2019 Biodiversity Fellow, Living Earth Collaborative, Washington University  
2018 Biodiversity Hero, BiomeSTL Regional Biodiversity Planning, St. Louis City  
2018 Highest Altmetric Score article, *Conservation Biology* 2017, Society for Conservation Biology  
2017 Conservation Partner Award, Missouri Department of Conservation  
2015 Grubber Award, International Studies, Saint Louis University  
2014 Honorary Member, Alpha Sigma Nu, The Jesuit Honor Society  
2014 Darwin Diversity Lecturer. Indiana State University, Terre Haute, Indiana  
2003 Faculty Excellence Award, Student Government Association, Saint Louis University

### **Teaching**

Biol-1260 General Biology II, 3 credit hours (3x)  
Biol-4240 General and Medical Entomology, Lecture & Lab, 4 credit hours  
Biol-4750 General Ecology & General Ecology Lab, 4 credit hours (22x)  
Biol-4670/5670 Population Biology, 3 credit hours (3x)  
Biol-4790/5090 Biometry, Lecture & Lab, 4 credit hours (19x)  
Phil-3450 Environmental and Ecological Ethics, 3 credit hours (17x)  
Phil-3700 Sustainable Happiness, 3 credit hours  
Biol-5705 Advanced Ecology, 3 credit hours (6x)

## Publications

1. Riehn, J. K., Fogel, N.S., Hathaway, J.N., and **Camilo, G.R.** 2023. Bee diversity on urban rooftop food gardens. *Frontiers in Sustainable Cities* **In press**.
2. Fogel, N.S., Thompson, M.F. , P. A. Muñiz, P. A. and Camilo, G. R. 2022. The prevalence and manifestation of wing de-melanization in the Eastern carpenter bee, (Hymenoptera, Apidae, *Xylocopa virginica*) associated with urban areas. *Journal of the Kansas Entomological Society* **In press**.
3. **Camilo, G.R.** 2022. Reply to Miller et al. *American Entomologist* 68:56-58.
4. Jellen, B., Aldridge, R., Hollon, M., Sadikovich, S., and Camilo, G. R. 2022. Love is in the air: additional evidence for a volatile sex-attractant pheromone in snakes. *Journal of Herpetology* doi: <https://doi.org/10.1163/15685381-bja10117>
5. Zwarun, L. and **Camilo, G.R.** 2021. Facts Aren't Enough: Addressing communication challenges in the pollinator crisis and beyond. In *The Palgrave Handbook of International Communication and Sustainable Development* (pp. 393-423). Palgrave Macmillan, Cham.
6. Brant, R.A. and **Camilo, G.R.** 2021. Body size variation in a social sweat see, *Halictus ligatus* (Halictidae, Apoidea), across urban environments. *Insects* 12:1086.
7. Edens-Meier, R., Arduser, M., **Camilo, G.R.** and Tackett, M.J., 2021. Pollination ecology and breeding systems of *Cypripedium kentuckiense* (Orchidaceae) in Tennessee. *The Journal of the Torrey Botanical Society* 148:53-74.
8. Domic, A.I., Capriles, J.M. and **Camilo, G.R.** 2020. Evaluating the fitness effects of seed size and maternal tree size on *Polylepis tomentella* (Rosaceae) seed germination and seedling performance. *Journal of Tropical Ecology* 36:115-122.
9. Edens-Meier, R., Ren, Z-X., M. Arduser, **G. R. Camilo** and P. Bernhardt. 2019. Breeding systems and pollination ecology of *Uvularia grandiflora* Smith (Colchicaceae). *Journal of the Torrey Botanical Society* 147:38-48.
10. Bernhardt, P., **G. R. Camilo** & P. Weston. 2019. Shaken vs scraped: Floral presentation contributes to pollinator guild segregation in co-blooming *Synphionema montanum* and *Isopogon anemonifolius* (Proteaceae). *Singapore Garden's Bulletin* 71:109-128.
11. Kleinschmidt, L. C. S. Hanley, **G. R. Camilo**, L. R. Padilla, and A. Dipl. 2018. Comparison of propofol constant-rate-infusion and isoflurine for maintenance of anesthesia in the Speke's gazelle, *Gazela spekei*. *Zoo Biology and Medicine* 49:722-731.
12. **Camilo, G. R.**, P. A. Muñiz, M. S. Arduser, and E. M. Spevak. 2018. A checklist of the bees (Hymenoptera: Apoidea) of St. Louis, Missouri, USA. *Journal of the Kansas Entomological Society* 90:175-188.
13. Edens-Meier, R., M. Arduser, **G. R. Camilo** and P. Bernhardt. 2018. Comparative pollination ecology between two populations and two varieties of *Cypripedium parviflorum* (Orchidaceae) in Missouri: Does Size Matter? *Botanical Journal of the Linnean Society* 186:544-559
14. Numbere, A.O. and **Camilo, G.R.**, 2018. Structural characteristics, above-ground biomass and productivity of mangrove forest situated in areas with different levels of pollution in the Niger Delta, Nigeria. *African Journal of Ecology* DOI:10.1111/aje.12519
15. Domic, A. I., P. Bernhardt, R. Edens-Meier, **G. R. Camilo** and J. A. Capriles. 2017. Pollination ecology of *Polylepis tomentella*, an Andean anemophilous tree presenting a potential floral fungal infection. *International Journal of Plant Sciences* 178:512–521

16. Hall, D. M., **Camilo, G. R.**, Tonietto, R. K., et al. 2017. The city as a refuge for insect pollinators: conservation for the city. *Conservation Biology* DOI:10.1111/cobi.12840
17. Bernhardt, P., R. Edens-Meier, D. Jocson, J. Zweck, Z.-X. Ren, **G. R. Camilo**, M. Arduser. 2016. Comparative floral ecology of bicolor and concolor morphs of *Viola pedata* L. (Violaceae) following controlled burns. *Journal of Pollination Ecology* 19:57-71.
18. Burr, A., Shaeg, N. Muñiz, P. A., **Camilo, G. R.** and Hall, D. H. 2016. Wild bees in the city: Reimagining urban spaces for pollinator health. *Consilience: The Journal of Sustainable Development* 16:106-131.
19. Numbere, A. O. and **G. R. Camilo**. 2016. Mangrove leaf litter decomposition under mangrove forest stands with different levels of pollution in the Niger River Delta, Nigeria. *African Journal of Ecology* DOI: 10.1111/aje.12335
20. Wang, P., Numbere, A. O., and **Camilo, G. R.** 2015. Long-term changes in the mangrove landscape of the Niger river delta, Nigeria. *American Journal of Environmental Sciences* 12: 248-259.
21. Ren, Z-X., H. Wang, P. Bernhardt, **G. R. Camilo**, & D-J. Li. 2014. Which food-mimic floral trait and environmental factors influence the fecundity in a rare orchid, *Calanthe yaoshanensis*? *Botanical Journal of the Linnean Society* DOI: 10.1111/boj.12213
22. Asa, C. S., Bauman, K. L., Devery, S., Zordan, M., **Camilo, G. R.**, Boutelle, S., and Moresco, A. 2014. Factors associated with uterine endometrial hyperplasia and pyometra in wild canids: implications for fertility. *Zoo Biology*. DOI: 10.1002/zoo.21069
23. Domic, A. I., Mamani, E., & **Camilo, G.** 2013. Fenología reproductiva de la kewiña (*Polylepis tomentella*, Rosaceae) en la puna semihúmeda de Chuquisaca (Bolivia). *Ecología en Bolivia*, 48:31-45.
24. Domic, A. I., **G. R. Camilo** & J. M. Capriles. 2013. Small-scale farming and grazing reduce regeneration of *Polylepis tomentella* (Rosaceae) in the semiarid Andes of Bolivia. *Biotropica*. DOI: 10.1111/btp.12075
25. Brokaw et al. 2012. Response to disturbance. Pp. 201–268 in Brokaw et al., eds. *A Caribbean forest tapestry: the multidimensional nature of disturbance and response*. Oxford University Press.
26. McDowell et al. 2012. Geographical and ecological setting. Pp. 42-72 268 in Brokaw et al., eds. *A Caribbean forest tapestry: the multidimensional nature of disturbance and response*. Oxford University Press.
27. Ghebretinsae' A. G., S. A. Graham, **G. R. Camilo** and J. C. Barber. 2008. Natural infraspecific variation in fatty acid composition of *Cuphea* (Lythraceae) seed oils. *Industrial Crops and Products* 27:279-287.
28. **Camilo, G. R.** 2008. Heterogeneity and scale in the Missouri Ozark landscape. Pp. 142-146 in J. M. Guldin, G. F. Iffig, and S. L. Flader, eds., Pioneer Forest: A half century of sustainable uneven-aged forest management in the Missouri Ozarks. USDA Forest Service, Southern Research Station Gen. Tech. Report SRS-108.
29. **Camilo, G. R.** and N. San Diego. 2008. Invertebrate community structure and forest management in the Missouri Ozark landscape. Pp. 65-76 in J. M. Guldin, G. F. Iffig, and S. L. Flader, eds., Pioneer Forest: A half century of sustainable uneven-aged forest management in the Missouri Ozarks. USDA Forest Service, Southern Research Station Gen. Tech. Report SRS-108.

30. Dumonceaux, G.A., J.E. Bauman, and **G.R. Camilo**. 2006. Evaluation of progesterone levels in feces of captive reticulated giraffe (*Giraffa camelopardalis reticulata*). *J. Zoo Wildlife Med.* 37:255-261.
31. Williams-Guillen, K., D. Griffith, J. Polisar, **G. Camilo**, and K. Bauman. 2006. Abundancia de animales de caza y características de cacería en el territorio indígena de Kipla Sait Tasbaika, reserva de biosfera BOSAWAS. *WANI* 14:37-61.
32. **Camilo, G.R.** and Zou, X., 2001. Soil fauna in managed forests: lessons from the Luquillo Experimental Forest, Puerto Rico. *A. Grajal, R. Fimble and J. Robinson, eds., The Cutting Edge: Conserving Wildlife in Logged Tropical Forests*. Columbia University Press, Columbia, NY.
33. Tilgner, E. H., **G. R. Camilo** and C. F. Moxey. 2000. A New Species of *Lamponius* (Phasmida: Phasmatidae) from Puerto Rico. *Journal of Orthoptera Research* 9:37-39.
34. Willig MR, MF Secrest, SB Cox, **GR Camilo**, JF Cary, J Alvarez, and MR Gannon. 1998. Long-term monitoring of snails in the Luquillo Experimental Forest of Puerto Rico: heterogeneity, scale, disturbance, and recovery. *Man and the Biosphere Series* 21:293-322.
35. Waide, **Camilo, G.** and Regan, D. 1996. The community food web: Major properties and patterns of organization. Pp. 451-510 in Reagan, D.P. and Waide, R.B. eds., *The food web of a tropical rain forest*. University of Chicago Press.
36. Waide, R.B., Lodge, D.J., **Camilo, G.** and Silver, W. 1996. Biodiversity at the LUQ Long-term Ecological Research Site. Long-Term Studies in Ecology and Biodiversity. University of Virginia.
37. **Camilo, G. R.** and Willig, M. R. 1995. Dynamics of a food chain model from an arthropod-dominated lotic community. *Ecological Modelling* 79:121-129.
38. Willig, M. R. and **G. R. Camilo**, S. Noble. 1995. Dietary overlap in frugivorous and insectivorous bats from edaphic cerrado habitats of Brazil. *Journal of Mammalogy* 74:117-128.
39. **Camilo, G. R.** and Willig, M. R. 1993. Diet of some common insects in the South Llano River. *Texas Journal of Science* 24:74-84.
40. Willig, M. R. and **G. R. Camilo**. 1991. The Effect of Hurricane Hugo on Six Invertebrate Species in the Luquillo Experimental Forest of Puerto Rico. *Biotropica* 23:455-461.
41. **Camilo, G.R.** and Cokendolpher, J.C., 1988. Schizomidae de Puerto Rico (Arachnida: Schizomida). *Caribbean Journal of Science* 24, pp.52-59.

**Grants: External** (last fifteen years)

1. Maximizing Pollination Services in Urban Orchards. USDA-NIFA, A. Dunlap, G. Camilo, P. Hoch, K. Krakos, N. Miller-Struttman, N. Muchhala, E. Spevak; \$668,107 (2021-2024)
2. Living Earth Collaborative Grant (Co-PI), "Floral scent differentiation as a method for pollinator partitioning in Anthurium (Araceae)"; M. Carlsen, N. Muchhala, G. Camilo, E. Spevak; \$28,885 (2019-20)
3. Living Earth Collaborative Grant (Co-PI), "Backyard bird diversity along a rural to urban gradient of homeowner conservation program" S. Heath, G. R. Camilo; \$156,000 (2020-2023).
4. Spatial structuring of bee communities in St. Louis city. Missouri Department of Conservation: Wildlife Conservation. 2015-2018. G. R. Camilo; \$29,000

5. Partnering with urban residential homeowners for habitat conservation from the wild bee's perspective. . Missouri Department of Conservation: Community Conservation. 2016-2018 D. Hall and G. R. Camilo \$68,760
6. Bioinformatics Training With Industry Support and Engagement (BITWISE). NSF 2015-2019 Michael Goldwasser, T. Ahn, GR Camilo, J. Kennell, D. Leschter \$649,591
7. Smith Fellowship: Bee diversity in Urban Environments. Society for Conservation Biology & Smith Family Foundation. 2015-2017. R. Tonietto and G. R. Camilo. \$186,800
8. Instrumentation: High-performance computing cluster. Silicon Mechanics. 2012. K. Haake, M. McQuinling, G. R. Camilo, J. Goodson, O. Sandoval. \$169,700
9. Population structure, recruitment and seed mortality of *Polylepis* in the high Andes of Bolivia. International Foundation for Science. A. I. Domic and G. R. Camilo \$17,500
10. NSF-DDIG: Polygyny and colony structure of the invasive Japanese ant, *Tetramorium tsushimae*. 2009-2011. K Reuther and G. R. Camilo. \$10,000
11. NSF-DDIG: Coevolution of plants and seed predators in a geographic mosaic. 2007-2009. R. Rios and G. R. Camilo. \$9,800
12. Coevolution of seed predators and its host plant in a spatial mosaic. National Geographic Society 2008-2010. G. R. Camilo and R. Rios. \$12,350

**Grants: Internal** (last ten years)

1. Beaumont Faculty Development Grant: Pollination ecology of *Polylepis* spp in the Bolivian high Andes. \$5,000
2. PRF: Social and Ecological Drivers of Pollinator Health: Interdisciplinary Research Strategies for Addressing the Pollinator Conservation Crisis. \$46,430 (D. Hall, co-PI)
3. Sustainability Innovation Fund: Ecological drivers of bee diversity in community gardens in St. Louis metro area. \$22,516

**Invited Presentations** (last fifteen years)

1. Keynote: The Birds and the Bees in the St. Louis Metropolitan Area (oh, mosquitoes too!) Individual homeowners' contribution to regional biodiversity. Conserving Pollinators in Urban Landscapes. University of Georgia, Athens, GA
2. Helping people help bees: The case for branding bee conservation science. Living Earth Collaborative and Ecology, Evolution, and Systematics Biology, Washington University, St. Louis, MO. October 2022.
3. The Birds and the Bees in the St. Louis Metropolitan Area (oh, mosquitoes too!) Individual homeowners' contribution to regional biodiversity. Department of Entomology and Ecology, Evolution and Conservation program, The Ohio State University, Columbus, OH. September 2021.
4. The Birds and the Bees in the St. Louis Metropolitan Area (oh, mosquitoes too!) Individual homeowners' contribution to regional biodiversity. Department of Environmental Sciences and Ecology program, University of Puerto Rico, Rio Piedras, PR. October 2021.
5. Bee functional and taxonomic diversity in urban environments. Insect Conservation Symposium, 2019 Annual meeting of the Entomological Society of America, St. Louis, MO.
6. Bee diversity in urban environments: Social and ecological drivers. Department of Biology, Southern Illinois University, Carbondale, IL. September 2019.

7. Bee diversity in urban environments: Social and ecological drivers. Department of Biology, Southern Mississippi University, Hattisburgh, MS. September 2018.
8. Bees in the Hood: Urban bee diversity in St. Louis city. Pints'n'Plants speaker series, Gateway Greening Urban Gardening Organization, St. Louis, MO. September 2018.
9. Spatial structuring in bee communities impact pollination services in the city. Symposium: Conserving wild bees in urban habitats: Research, practice, and policy. North American Congress for Conservation Biology, Society for Conservation Biology, Toronto, Canada. July 2018.
10. The city as a bee diversity hotspot: The case of St. Louis city. 1<sup>st</sup> Great Rivers Greenway District Conservation Symposium, St. Louis, MO. November 2017.
11. Bee diversity in urban environments: Social and ecological drivers. Department of Biology, Washington University, St. Louis, MO. October 2017.
12. Bee diversity in urban environments: Social and ecological drivers. Department of Biology, Southern Illinois University, Edwardsville, IL. September 2017.
13. The city as a biodiversity refuge for bees. Endangered species forum, US Fish & Wildlife, region 5, and Missouri Department of Conservation. Springfield, MO. September 2017.
14. Socio-ecological feedbacks affecting bee diversity in urban farms and community gardens. Section Symposium, Annual meeting of the Ecological Society of America, Portland, Oregon. August 2017
15. Visualizing pollinator diversity in St Louis city. Missouri Botanical Garden 2017 Educator Workshop: Visualizing biodiversity for a better world. July 2017
16. Wild bee diversity and conservation in urban environments. The Grow Exhibit, St. Louis Science Center, June 2017.
17. Wild bee diversity in an Urban Environment. Biodiversity Conservation in Urban Areas Symposium, Missouri Natural Resources Conference, Springfield, MO. February 2017
18. Wild bee diversity in an Urban Environment. Department of Biology, Western Kentucky University, Bowling Green, KY. January 2017
19. To bee or not to bee in the city: Wild bee diversity in St. Louis, MO. Missouri Bee Keepers Association and Monsanto Crop. Creve Coure, MO. January 2017
20. To bee or not to bee in the city: Wild bee diversity in St. Louis, MO. St. Louis Academy of Sciences & St. Louis Zoo public lecture, December 2016
21. Bee diversity in the shrinking city. Missouri Conservation Symposium, MO Department of Conservation, Springfield, MO, October 2016
22. Bee diversity in the shrinking city. Program Symposium: Social and Ecological Interactions in Agroecological Processes, Entomological Society of America, Minneapolis, MN, November 2015
23. Bee diversity in the shrinking city. St. Louis Ecology and Evolution Consortium. St. Louis Zoo, St. Louis, MO. September 2015
24. Bee diversity across a range of socio-economic neighborhoods in St. Louis city. St. Louis Earth Day Symposium, St. Louis, MO, June 2015.
25. How to be a bad mother: Optimality in a coevolutionary mosaic in the Bolivian lowlands. Dept. of Biology, Indiana State University, Terre Haute, IN. January 2014
26. Complex mosquito population dynamics and public health in Central America. OneHealth lecture series, Doisy School of Health Sciences, Saint Louis University. February 2014.
27. Biodiversity and environment in the incredible shrinking city. Department of Biology, Northern Illinois University, Dekalb, IL. October 2013.

28. Environmental sustainability of soil biota in north St. Louis city. OneSTL Conference, St. Louis, MO. September 2013.
29. The geography of insect-plant interactions across the Bolivian lowlands. Schwartz Lecture Series, School of Natural Resources, University of Missouri, Columbia. September 2009.
30. Environmental ethics of climate change and the conservation of *Polylepis* in the Bolivian Andes. Universidad Mayor de San Xavier, Sucre, Bolivia. June 2008.
31. Hunting sustainability, cultural complexity and conservation in the BOSAWAS biosphere reserve, Nicaragua. Universidad Mayor de San Andres, La Paz, Bolivia. June 2007.

**Professional contributed** (last ten years)

1. Fogel, N, and G Camilo (2021) Bringing conservation home: Bee diversity in gardens along an urban to exurban gradient. Ecological Society of America meeting
2. Fogel, N, G Camilo, and NE Miller-Struttman (2021) Can photosurveys track bee diversity? The successes and challenges of an urban community science program: Shutterbee. Ecological Society of America meeting
3. Hull, T, JSO Sandoval and G Camilo (2021) “census2sci4MGWR”: An R package for improving access to socioecological data for inclusion in Multiscale Geographically Weighted Regression. Ecological Society of America meeting
4. Morris, E, and G Camilo (2021) Bee community structure in St. Louis metropolitan area. Ecological Society of America meeting
5. Mullikin, J, and G Camilo (2021) Specialists in the city: *Ptilothrix bombiformis*' variation in foraging and diet across an urbanization gradient. Ecological Society of America meeting
6. Thompson, M, N Fogel, and G Camilo (2021) Eastern carpenter bees (*Xylocopa virginica*) are experiencing wing discoloration, with ST. Louis as a hotspot. Ecological Society of America meeting
7. Zwarun, L, and G Camilo (2021) Preaching to more than the choir: Obstacles to communicating broadly about pollinator conservation. Ecological Society of America meeting
8. Camilo, G. R. 2018. Spatial structuring and saturation of bee communities in a city environment. Annual meeting of the Ecological Society of America, New Orleans, LA.
9. Edens-Meier, R., J. Mullikin, and G. R. Camilo. 2018. Behavioral variation in the hibiscus bee, *Ptilothrix bombiformis*, from natural to urban sites. Saint Louis Ecology, Evolution, and Conservation Symposium, Saint Louis, MO.
10. Mullikin, J. R. Edens-Meier, and G. R. Camilo. 2018. Floral visitation and pollen choice in the native specialist bee, , *Ptilothrix bombiformis*, across an urban to rural gradient. Saint Louis Ecology, Evolution, and Conservation Symposium, Saint Louis, MO.
11. Tonietto, R. K., K. Garbagh, M. Arduser, D. Hall, P. Goster, and G. R. Camilo. 2017. Urban agriculture supports diverse wild bee communities in Detroit, St. Louis and Chicago: A social science and ecological approach. Annual meeting of the Ecological Society of America, Portland, Oregon.
12. Muñoz, P. A. and G. R. Camilo. 2017. A functional approach to understanding patterns of bee species distribution across an urban environment. Annual meeting of the Ecological Society of America, Portland, Oregon.

13. Brant, R., P. A. Muñiz, and G. R. Camilo. 2016. The phenology of the social sweat bee, *halictus ligatus*, in an urban environment. Annual meeting of the Ecological Society of America, Ft. Lauderdale, FL.
14. Muñiz, P.A., G.R. Camilo. 2016. Bee functional diversity in an urban landscape: challenges and future directions. St. Louis Ecology, Evolution and Conservation retreat, St. Louis, MO.
15. Muñiz, P.A., R.A. Brant, G.R. Camilo. 2016. A functional approach to understanding patterns of bee species distribution across an urban environment. Urban Ecology Conference, University of Zurich, Zurich, Switzerland.
16. Muñiz, P.A., R.A. Brant, G.R. Camilo. 2016. A functional approach to understanding patterns of bee species distribution across an urban environment. Annual meeting of the Ecological Society of America, Ft. Lauderdale, FL.
17. Schaeg, N., Burr, A., Muñiz, P., Camilo, G., Hall, D.M. International Association for Society and Natural Resources, International Symposium on Society and Resource Management, Houghton, MI: Poster, “Partnering with residential homeowners for habitat conservation from the wild bee’s perspective” 23 June 2016.
18. Burr, A., Schaeg, N., Muñiz, P., Camilo, G., Hall, D.M. International Association for Society and Natural Resources, International Symposium on Society and Resource Management, Houghton, MI., Poster: “Understanding the social-ecological drivers of urban pollinator health in Saint Louis, MO, USA” 23 June 2016.
19. Schaeg, N., Burr, A., Muñiz, P., Banatoui, C., Camilo, G., Hall, D.M. Saint Louis University Graduate Student Association Research Symposium, Saint Louis, MO., Poster: “An ecology of prestige? Understanding the relationship between socio-economics, vegetation density, and bee abundance and diversity in urban residential areas of Saint Louis, Missouri,” 22 April 2016.
20. Burr, A., Myers, A., Schaeg, N., Muñiz, P., Banatoui, C., Camilo, G., Hall, D.M. Saint Louis Ecology, Evolution, and Conservation Symposium, Saint Louis, MO., Poster: “Social & ecological drivers of urban pollinator health”, 26 Sept 2015.
21. Muñiz, P.A., G.R. Camilo. 2015. The effects of a shrinking city on bee diversity. St. Louis Ecology, Evolution and Conservation retreat, St. Louis, MO.
22. Muñiz, P.A., A.H. Vavra, G.R. Camilo. 2015. Bee diversity across a range of socio-economic neighborhoods. Annual meeting of the Ecological Society of America, Baltimore, MD.
23. Banotai, C.M., P.A. Muñiz, R.A. Brant, G.R. Camilo. 2015. Bee diversity in a shrinking city: the influence of infrastructure and economic status. Annual meeting of the Ecological Society of America, Baltimore, MD.
24. Muñiz, P.A., C. Banotai, A.H. Vavra, L. M. Merchant and G.R. Camilo. 2014. Pollinator diversity across socio-economic range of urban gardens in St. Louis city. Annual meeting of the Ecological Society of America, Sacramento, CA.
25. Muñiz, P.A., C. Banotai, A.H. Vavra, L. M. Merchant and G.R. Camilo. 2014. Bee diversity across a range of socio-economic neighborhoods. Webster University Sustainability Conference, St. Louis, MO.
26. Numbere, A. and G. R. Camilo. 2011. Productivity and decomposition of black mangrove (*Rhizophora mangle*) in the Niger River Delta, Nigeria. 12<sup>th</sup> Nigerian Ecology Conference, Port Harcourt, Nigeria.
27. Domic, A. & G. Camilo. 2012. Pollination biology of a high-altitude wind-pollinated tree species. 97<sup>th</sup> Ecological Society of America (ESA) Annual Meeting, Portland.



28. Westhus, E.J., and G.R. Camilo. August 9, 2011. Developing a scale transition model for Missouri's mosquito populations. 96th Ecological Society of America Annual Meeting, Austin, TX.
29. Numbere, A. and G. R. Camilo. 2011. Seasonal productivity patterns in black and red mangroves (*Rhizophoraea*) in the Niger River Delta, Nigeria. St. Louis Ecology, Evolution and Conservation retreat, St. Louis, MO.
30. Domic, A. & G. Camilo. 2011. Effects of human disturbance on the population structure of an Andean tree species. St. Louis Behavior, Ecology, Evolution, and Systematics Retreat, Tyson Research Center of Washington University, Saint Louis.
31. Westhus, E.J., and G.R. Camilo. 2010. Scalable modeling of mosquito population dynamics. 95th Ecological Society of America Annual Meeting, Pittsburgh, PA.
32. Domic, A. & G. Camilo. 2010. Efectos de disturbio por actividades humanas en la estructura poblacional de una especie de árbol Altoandina (*Polylepis tomentella*, Rosaceae). III Congreso Boliviano de Ecología, Sucre, Bolivia.
33. Westhus, E.J., and G.R. Camilo. 2009. Scalable modeling of mosquito population dynamics. 94th Ecological Society of America Annual Meeting, Albuquerque, NM.
34. Domic, A., G. Camilo & C. Zambrana-Torrel. 2008. Predicción de la distribución de especies de árboles altoandinos con diferentes características ecológicas. III International Congress of Dry Ecosystems, Santa Marta, Colombia.
35. Domic A., G. Camilo & J. Capriles. 2008, Niche Ecological Modeling of wild and planted species of Andean trees (*Polylepis*, Rosaceae). 2008 Society of Ethnobiology Annual Conference, University of Arkansas.

### Professional Reports

- Camilo, G. R.**, R. K. Tonietto, P. A. Muñoz, and D. M. Hall. 2017. Public comment: National Monitoring Plan for Native Bees: Stakeholder and Public Listening Session. National Institute for Food and Agriculture, US Department of Agriculture, Washington, DC.
- Hall, D.M., **Camilo, G.R.**, Schaeg, N., Burr, A. 2016. *Urban wildlife conservation: Partnering with urban residential homeowners for habitat conservation from the wild bees' perspective*. Cooperative Agreement 359 Technical Report submitted to Missouri Department of Conservation. 208 pages.
- Salick, J., Alcorn, J., Anderson, E., Asa, C., Balee, W., Balick, M., Beckerman, S., Bennett, B., Caballero, J., **Camilo, G.** and Cunningham, A.B., 2003. Intellectual imperatives in ethnobiology: NSF biocomplexity workshop report. *St Louis: Missouri Botanical Gardens*.

### Workshops Hosted

1. Arduser, M., and G. R. Camilo. 9-14 January, 2023. Midwest Bee Taxonomy and Identification Workshop. Saint Louis University, St. Louis, MO.
2. Arduser, M., and G. R. Camilo. 3-7 January, 2022. Midwest Bee Taxonomy and Identification Workshop. Saint Louis University, St. Louis, MO.
3. Arduser, M., and G. R. Camilo. 5-10 January, and 6-10 March 2020. Midwest Bee Taxonomy and Identification Workshop. Saint Louis University, St. Louis, MO.

4. Arduser, M., P. A. Muñiz, and G. R. Camilo. 9-13 January, and 6-10 March 2017. Midwest Bee Taxonomy and Identification Workshop. Saint Louis University, St. Louis, MO.
5. Camilo, G.R. and E.J. Westhus. October 29, 2010. The GLM framework in R. Saint Louis University, St. Louis, MO.
6. Westhus, E.J. and G.R. Camilo. September 9-10, 2010. Learn to Use R. Saint Louis University, St. Louis, MO.
7. Westhus, E.J. and G.R. Camilo. September 15-16, 2011. Learn to Use R. Saint Louis University, St. Louis, MO.
8. Camilo, G.R. and E.J. Westhus. February 18, 2010. Geospatial statistics II workshop: GIS, geostatistics, and geospatial analyses in R. Saint Louis University, St. Louis, MO.
9. Westhus, E.J., and G.R. Camilo. February 11, 2010. Geospatial statistics I workshop: Introduction to the R-Project for statistical computing. Saint Louis University, St. Louis, MO.

### **Organized Symposia**

Bees Across Urban Environments: Social and Ecological Forces. 2015 Annual meeting of the Ecological Society of America, Baltimore, MD.

Ecological Theory and Entomological Empiricism. 1999 Annual meeting of the Entomological Society of America, Atlanta, GA.

### **Professional Advisory**

Great Rivers Greenway, St. Louis, MO, Technical Advisory Board (2021-2022)

US Fish & Wildlife Service, St. Louis urban wildlife corridor, advisory board (2017-2018).

WildCare Institute, St. Louis Zoo, scientific advisory board (2003-2016).

Ecological Society of America, Strategies for Ecology Education and Diversity (SEEDS), mentor (2003-present) and advisor (2003-2006).

### **Professional Service**

Panel reviewer for the National Science Foundation, Doctoral Dissertation Improvement Grants (2002, 2003), and ecology program (2004, 2006, 2008)

Grant proposal reviewer for the National Science Foundation, US Fish & Wildlife, US Department of Agriculture, David H. Smith Conservation Research Fellowship Program, St. Louis Zoo Wild Care Institute, Wildlife Conservation Society

Associate editor for the journal *Environmental Entomology* (1998-2008).

### **Professional Societies**

Ecological Society of America

Entomological Society of America

Sigma Xi  
Society for Conservation Biology