

James K. Wetterer

Wilkes Honors College, Florida Atlantic University
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EDUCATION

UNIVERSITY OF WASHINGTON, Seattle, WA, 9/83 - 8/88

Ph.D., Zoology: Ecology and Evolution; Advisor: Gordon H. Orians.

MICHIGAN STATE UNIVERSITY, East Lansing, MI, 9/81 - 9/83

M.S., Zoology: Ecology; Advisors: Earl E. Werner and Donald J. Hall.

CORNELL UNIVERSITY, Ithaca, NY, 9/76 - 5/79

A.B., Biology: Ecology and Systematics.

UNIVERSITÉ DE PARIS III, France, 1/78 - 5/78

Semester abroad: courses in theater, literature, and history of art.

WORK EXPERIENCE

FLORIDA ATLANTIC UNIVERSITY, Wilkes Honors College

8/04 - present: **Professor**

7/98 - 7/04: **Associate Professor**

Teaching: Biodiversity, Principles of Ecology, Behavioral Ecology, Human Ecology, Environmental Studies, Tropical Ecology, Field Biology, Life Science, and Scientific Writing

9/03 - 1/04 & 5/04 - 8/04: Fulbright Scholar; Ants of Trinidad and Tobago

COLUMBIA UNIVERSITY, Department of Earth and Environmental Science

7/96 - 6/98: **Assistant Professor**

Teaching: Community Ecology, Behavioral Ecology, and Tropical Ecology

WHEATON COLLEGE, Department of Biology

8/94 - 6/96: **Visiting Assistant Professor**

Teaching: General Ecology and Introductory Biology

HARVARD UNIVERSITY, Museum of Comparative Zoology

8/91 - 6/94: **Post-doctoral Fellow**; Behavior, ecology, and evolution of fungus-growing ants

Advisors: Edward O. Wilson, Naomi Pierce, and Richard Lewontin

9/95 - 1/96: Teaching: Ethology

PRINCETON UNIVERSITY, Department of Ecology and Evolutionary Biology

7/89 - 7/91: **Research Associate**; Ecology and evolution of leaf-cutting ants

Advisor: Stephen Hubbell

1/91 - 5/91: Teaching: Tropical Ecology, Introduction to the Scientific Method

VANDERBILT UNIVERSITY, Department of Psychology

9/88 - 7/89: **Post-doctoral Fellow**; Visual psychophysics of fish and horseshoe crabs

Advisor: Maureen K. Powers

UNIVERSITY OF WASHINGTON, Department of Zoology

9/83 - 5/88 **Teaching Assistant**: Sociobiology, Field Ethology and Ecology, Human Physiology, Introductory Biology

12/83 - 3/84: **Research Assistant**; Cues for larval emergence in tent caterpillars

Supervisor: David Rhoades

MICHIGAN STATE UNIVERSITY, Department of Zoology

9/81 - 5/83: **Teaching Assistant**: Developmental Biology, Introductory Biology

6/82 - 8/82: **Research Assistant**; Balance of foraging and predation risk in fish

Supervisors: Earl E. Werner and Donald J. Hall

UNIVERSITY OF VIRGINIA, Department of Environmental Sciences

5/80 - 9/80: **Field Technician**; Acid precipitation in the Adirondack Mountains

Supervisor: James Galloway

CORNELL UNIVERSITY, Section of Ecology and Systematics

10/79 - 4/80: **Laboratory Technician**; Acid precipitation in the Northeastern USA

Supervisor: Gene E. Likens

CURRENT RESEARCH INTERESTS**Biogeography, ecology, and environmental impact of ants**

Distribution, impact, and control of exotic ants

Impact of exotic ants on hatchling sea turtles

Biogeography and ecology of West Indian ants

GRANTS AND SCHOLARSHIPS

National Science Foundation. Research Grant: \$342,560. 10/05-9/11. "Ants of the Eastern Caribbean." (Co-PI: R.R. Snelling).

Council for International Exchange of Scholars. Fulbright Fellowship: \$37,700. 9/03 - 8/04. "Biodiversity of the Caribbean: Ants of Trinidad and Tobago."

National Geographic Society. Research and Exploration Grant: \$16,960. 6/03 - 6/04. "The ants of Macaronesia" (Co-PI: A.L. Wetterer).

Florida Atlantic University. Associate Professor Researcher of the Year Award: \$5,000. 6/02 - 5/03. "Distribution and impact of ants."

National Geographic Society. Research and Exploration Grant: \$16,010. 6/02 - 6/03. "The ants of Madeira and the impact of exotic ants on native species" (Co-PI: A.L. Wetterer).

University of Madeira, Visiting Scientist Award: \$2,500. 6/02 - 7/02. "Ants of Madeira."

Bermuda Biological Station for Research, Inc. Wolfgang Sterrer Award: \$1,520. 3/02 - 2/03. "Ants of Bermuda" (Co-PI: A.L. Wetterer).

Bermuda Zoological Society. David B. Wingate Research Grant Award: \$1,600. 3/02 - 2/03. "Ants of Bermuda" (Co-PI: A.L. Wetterer).

Environmental Defense. Academic Science Minigrant: 7/01 - 7/02; \$15,000. "Distribution, impact, and control of invasive predatory ants on sea turtle nesting beaches in Florida."

World Wildlife Fund. Conservation Grant: 5/01 - 3/02; \$1,500. "Biology of the little fire ant, *Wasmannia auropunctata*."

National Save the Sea Turtle Foundation. Research Grant: 12/00 - 5/01; \$3,234. "Distribution, impact, and control of predatory ants in sea turtle nesting areas of South Florida"

World Wildlife Fund. Conservation Grant: 1/00 - 8/00; \$5,000. "Biological control of the little fire ant *Wasmannia auropunctata*" (Co-PI: S.D. Porter)

Florida Atlantic University. Research Initiation Grant: 2/99 - 6/00; \$5,000. "Distribution, impact, and control of tramp ants."

Center for Environmental Research and Conservation. Research Grant: 6/97 - 5/98; \$20,000. "The biodiversity crisis on tropical and subtropical islands: distribution, impact, and biological control of non-indigenous pest ants."

Biosphere 2 Center. Research Facilities Support Grant: 1/97 - 5/98; \$28,300. "Distribution, impact, and biological control of non-indigenous pest ants."

National Geographic Society. Research and Exploration Grant: 9/92 - 9/93; \$8,000. "The ecology and systematics of fungus-growing ants and their fungi."

National Science Foundation. Post-doctoral Fellowship: 8/91 - 5/94; \$69,600. "The coevolution of fungus-growing ants and their fungi."

Smithsonian Institutes. Post-doctoral Fellowship: 1/92 - 7/92; \$23,400. "The coevolution of fungus-growing ants and their fungi."

American Philosophical Society. Research Grant: 12/89 - 12/90; \$2,900. "Evolution of fungus-growing ants and their fungi."

National Institutes of Health. National Eye Institute Post-doctoral Training Fellowship: 9/88 - 7/89; \$15,000. "Ecology of retinal undersampling in fish."

GRADUATE AND UNDERGRADUATE GRANTS & SCHOLARSHIPS

UNIVERSITY OF WASHINGTON

National Science Foundation Doctoral Dissertation Improvement Grant

ARCS Foundation Scholarship

Jesse Smith Noyes Foundation Pilot Research Grant & Pre-doctoral Research Grant

School of Graduate Studies Scholarship and Research Grant

Friday Harbor Laboratories Summer Scholarship

Departmental Grant-in-Aid-of-Research

MICHIGAN STATE UNIVERSITY

Sigma Xi Grant-in-Aid-of-Research

School of Natural Sciences General Fellowship

Graduate School Tuition Scholarship

CORNELL UNIVERSITY

National Merit Scholarship

New York State Regents Scholarship

Carl E. Ladd Biology Fellowship

PUBLICATIONS

1. **Wetterer, J.K.**, and C.J. Bishop. 1985. Planktivore prey selection: the reactive field volume model versus the apparent size model. *Ecology* 66: 457-464.
2. Li, K.T., **J.K. Wetterer**, and N.G. Hairston Jr. 1985. Fish size, visual resolution, and prey selection. *Ecology* 66: 1729-1735.
3. **Wetterer, J.K.** 1988. Size selective foraging in leaf-cutting ants and planktivorous fish. Ph.D. Dissertation. University of Washington. 100 pp. (Advisor: G. H. Orians.)
4. **Wetterer, J.K.** 1988. Effect of localized prey depletion on prey selectivity by fish. *Transactions of the American Fisheries Society* 117: 313-316.
5. **Wetterer, J.K.** 1989. Mechanisms of prey choice by planktivorous fish: perceptual constraints and rules of thumb. *Animal Behaviour* 37: 955-967.
6. **Wetterer, J.K.** 1989. Central place foraging theory: when load size affects travel time. *Theoretical Population Biology* 36: 267-280.
7. **Wetterer, J.K.** 1990. Diel changes in forager size, activity, and load selectivity in a tropical leaf-cutting ant, *Atta cephalotes*. *Ecological Entomology* 15: 97-104.
8. **Wetterer, J.K.** 1990. Load size determination in the leaf-cutting ant, *Atta cephalotes*. *Behavioral Ecology* 1: 95-101. (With cover photo)
9. **Wetterer, J.K.** 1991. Allometry and the geometry of leaf cutting in *Atta cephalotes*. *Behavioral Ecology and Sociobiology* 29: 347-352.
10. **Wetterer, J.K.** 1991. Source distance has no effect on load size in the leaf-cutting ant, *Atta cephalotes*. *Psyche* 98: 355-359.
11. **Wetterer, J.K.** 1991. Foraging ecology of the leaf-cutting ant, *Acromyrmex octospinosus*, in a Costa Rican rain forest. *Psyche* 98: 361-371.
12. Herzog, E. D., N.B. Buelow, **J.K. Wetterer**, M.J. Barger, H.F. Nelson, M.E. Kelly, D.R. Kipke, M.K. Powers, and R.B. Barlow, Jr. 1992. Visual behavior of *Limulus* in the ocean. *Investigative Ophthalmology and Visual Science* 33: 1409.
13. **Wetterer, J.K.**, S. Shafir, L. Morrison, K. Lips, G. Gilbert, M. Cipollini, and C. Blaney. 1992. On- and off-trail orientation in the leaf-cutting ant, *Atta cephalotes*. *Journal of the Kansas Entomological Society* 65: 96-98.

14. Walton, W.E., N.G. Hairston Jr. and **J.K. Wetterer**. 1992. Growth-related constraints on diet selection by sunfish. *Ecology* 73: 429-437.
15. **Wetterer, J.K.** 1993. Foraging and nesting ecology of a Costa Rican leaf-cutting ant, *Acromyrmex volcanus*. *Psyche* 100: 65-76.
16. **Wetterer, J.K.** and G. Nevitt. 1993. The stream where they live. *Journal of Irreproducible Results* 38: 12.
17. **Wetterer, J.K.** 1994. Nourishment and evolution in fungus-growing ants and their fungi. pp. 309-328 in: *Nourishment and Evolution in Insect Societies*. Ed. by J. H. Hunt and C. A. Nalepa. Westview Press, Boulder, CO.
18. **Wetterer, J.K.** 1994. Ontogenetic changes in forager polymorphism and foraging ecology in the leaf-cutting ant, *Atta cephalotes*. *Oecologia* 98: 235-238.
19. Hinkle, G., **J.K. Wetterer**, T. Schultz, and M. Sogin. 1994. Phylogeny of the attine ant fungi based on analysis of small subunit ribosomal RNA gene sequence. *Science* 266: 1695-1697. (with photo)
20. **Wetterer, J.K.** 1994. Forager polymorphism, size-matching, and load delivery in the leaf-cutting ant, *Atta cephalotes*. *Ecological Entomology* 19: 57-64.
21. **Wetterer, J.K.** 1994. Attack by *Paraponera clavata* prevents herbivory by the leaf-cutting ant, *Atta cephalotes*. *Biotropica* 26: 462-465.
22. **Wetterer, J.K.** 1995. Forager polymorphism and foraging ecology of the leaf-cutting ant, *Atta colombica*. *Psyche* 102: 133-147.
23. **Wetterer, J.K.** 1995. Forager size and ecology of *Acromyrmex coronatus* and other leaf-cutting ants in Costa Rica. *Oecologia* 104: 409-415.
24. Ayala, F.J. Jr., **J.K. Wetterer**, J.T. Longino, and D.L. Hartl. 1996. Molecular phylogeny of *Azteca* ants (Hymenoptera: Formicidae) and the colonization of *Cecropia*-trees. *Molecular Phylogenetics and Evolution* 5: 423-428.
25. **Wetterer, J.K.** 1997. Ants on *Cecropia* in Hawaii. *Biotropica* 29: 128-132.
26. **Wetterer, J.K.**, C. Dunning, M.M. Yospin, A.G. Himler. 1997. Invertebrate diversity and ecology in Biosphere 2. pp. 119-122 in: *1997 Invertebrates in Captivity Conference Proceedings*. Sonoran Arthropod Studies Institute, Tucson, Arizona.
27. **Wetterer, J.K.** 1997. Alien ants of the Pacific islands. *Aliens* 6: 3-4.
28. **Wetterer, J.K.** 1997. Leaf-cutting ants. *Wild Times* 2(3): 4.
29. **Wetterer, J.K.**, T. R. Schultz, and R. Meier. 1998. Phylogeny of fungus-growing ants (Tribe Attini) based on mtDNA sequence and morphology. *Molecular Phylogenetics and Evolution* 9: 42-47.
30. **Wetterer, J.K.** 1998. Nonindigenous ants associated with geothermal and human disturbance in Hawai'i Volcanoes National Park. *Pacific Science* 52: 40-50.

31. **Wetterer, J.K.**, D.S. Gruner, and J.E. Lopez. 1998. Foraging and nesting ecology of *Acromyrmex octospinosus* (Hymenoptera: Formicidae) in a Costa Rican tropical dry forest. *Florida Entomologist* 81: 61-67.
32. **Wetterer, J.K.**, P.C. Banko, L.P. Laniawe, J.W. Slotterback, and G.J. Brenner. 1998. Nonindigenous ants at high elevations on Mauna Kea, Hawai'i. *Pacific Science* 52: 228-236.
33. **Wetterer, J.K.** 1998. Ants on *Cecropia* trees in urban San José, Costa Rica. *Florida Entomologist* 81: 118-121.
34. **Wetterer, J.K.** 1998. Alien ants: spreading like fire. *World Conservation* 1/98: 19-20.
35. **Wetterer, J.K.**, P.D. Walsh, and L.J.T. White. 1999. *Wasmannia auropunctata* (Roger) (Hymenoptera: Formicidae), a destructive tramp ant, in wildlife refuges of Gabon. *African Entomology* 7: 292-294.
36. **Wetterer, J.K.** 1999. Urban ecology. In: *The Encyclopedia of Environmental Science*. pp. 644-647. Ed. by D. E. Alexander and R. W. Fairbridge. Kluwer Academic Publishers, Dordrecht, The Netherlands.
37. **Wetterer, J.K.**, S.E. Miller, D.E. Wheeler, C.A. Olson, D.A. Polhemus, M. Pitts, I.W. Ashton, A.G. Himler, M. Yospin, K.R. Helms, E.L. Harken, J. Gallahan, C.E. Dunning, M. Nelson, J. Litsinger, A. Southern, and T.L. Burgess. 1999. Ecological dominance by *Paratrechina longicornis* (Hymenoptera: Formicidae), an invasive tramp ant, in Biosphere 2. *Florida Entomologist* 82: 381-388.
38. Calderwood, J.A., A.M. Wenner, and **J.K. Wetterer**. 1999. Argentine ants (Hymenoptera: Formicidae) invade Santa Cruz Island, California. pp. 274-277 *Proceedings of 5th California Islands Symposium*, Santa Barbara, CA.
39. **Wetterer, J.K.** 1999. Ecology and evolution of worker size-distribution in leaf-cutting ants (*Atta* spp. and *Acromyrmex* spp.). *Sociobiology* 34: 119-144.
40. **Wetterer, J.K.**, P.D. Walsh, and L.J.T. White. 1999. *Wasmannia auropunctata*, une fourmi dangereuse pour la faune du Gabon. *Canopée: Bulletin sur l'Environnement en Afrique Centrale* 14: 10-11.
http://www.ecofac.org/Canopee/N14/N1404_FourmisGabon/FourmisGabon.htm
41. Walsh, P.D., L.J.T. White, and **J.K. Wetterer**. 1999. Bad antz. *Wildlife Conservation*. 102 (5): 9.
42. **Wetterer, J.K.**, A.L. Wetterer, C. Rumbaitis-del Rio, C. Chang, G. Vega, L.L. Manne, J. Aukema, J. Karubian, A. Sloan, and M. Desai. 2000. Diel shifts in treehopper-tending by ants and wasps in Costa Rica (Hymenoptera). *Sociobiology* 36: 123-131.
43. **Wetterer, J.K.**, P.S. Ward, A. L. Wetterer, J. T. Longino, J.C. Trager, and S.E. Miller. 2000. Ants (Hymenoptera: Formicidae) of Santa Cruz Island, California. *Bulletin of the Southern California Academy of Sciences* 99: 25-31.

44. **Wetterer, J.K.**, A. G. Himler, and M. M. Yospin. 2001. Foraging ecology of the desert leaf-cutting ant, *Acromyrmex versicolor*, in Arizona (Hymenoptera: Formicidae). *Sociobiology* 37: 633-649.
45. **Wetterer, J.K.**, A.L. Wetterer, and E. Hebard. 2001. Impact of the Argentine ant, *Linepithema humile*, on the native ants of Santa Cruz Island, California. *Sociobiology* 38: 709-721.
46. **Wetterer, J.K.** 2002. Ants of Tonga. *Pacific Science* 56: 125-135.
47. **Wetterer, J.K.**, and B.C. O'Hara. 2002. Ants (Hymenoptera: Formicidae) of the Dry Tortugas, the outermost Florida Keys. *Florida Entomologist* 85: 303-307.
48. **Wetterer, J.K.**, A.G. Himler, and M.M. Yospin. 2002. Forager size, load size, and resource use in an omnivorous ant, *Aphaenogaster albisetosa* (Hymenoptera: Formicidae). *Sociobiology* 39: 335-343.
49. **Wetterer, J.K.**, and D.L. Vargo. 2003. Ants (Hymenoptera: Formicidae) of Samoa. *Pacific Science* 57: 409-419.
50. **Wetterer, J.K.** 2003. Microepiphytes on branches deter leaf-cutting ant herbivory. *Sociobiology* 41: 711-715.
51. **Wetterer, J.K.** and A.L. Wetterer. 2003. Ants (Hymenoptera: Formicidae) on non-native Neotropical ant-acacias (Fabales: Fabaceae) in Florida. *Florida Entomologist* 86: 460-463.
52. **Wetterer, J.K.**, and S. D. Porter. 2003. The little fire ant, *Wasmannia auropunctata*: distribution, impact, and control. *Sociobiology* 42: 1-41.
53. Krahe, H., **J.K. Wetterer**, and L.D. Wood. 2003. Impact of fire ant stings on sea turtle hatchling survival. Proceedings of the 22nd Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFSC 503: 211-212.
54. **Wetterer, J.K.**, and A.L. Wetterer. 2004. Ants (Hymenoptera: Formicidae) of Bermuda. *Florida Entomologist* 87: 212-221.
55. **Wetterer, J.K.**, X. Espadaler, A.L. Wetterer, and S.G.M. Cabral. 2004. Native and exotic ants of the Azores (Hymenoptera: Formicidae). *Sociobiology* 44: 1-20.
56. **Wetterer, J.K.** 2005. Worldwide distribution and potential spread of the long-legged ant, *Anoplolepis gracilipes*. *Sociobiology* 45: 77-97.
57. **Wetterer, J.K.**, and L.D. Wood. 2005. Distribution and impact of ants on a sea turtle nesting beach in Palm Beach County, Florida. Proceedings of the 21st Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFSC 528: 351-353.
58. **Wetterer, J.K.**, and J.A. Moore. 2005. Red imported fire ants (Hymenoptera: Formicidae) at gopher tortoise (Testudines: Testudinidae) burrows. *Florida Entomologist* 88: 349-354.

59. **Wetterer, J.K.**, M. Moreira, and A. Correa. 2005. Observations on a little-known leaf-cutting ant, *Acromyrmex volcanus*. *Sociobiology* 46: 525-533.
60. Schoch, B. A., **J.K. Wetterer**, and J. Olsen. 2006. Relocation of green sea turtle eggs to Bermuda. Proceedings of the 23rd Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFSC-536: 94.
61. **Wetterer, J.** 2006. The tropical fire ant, *Solenopsis geminata*, on an important sea turtle nesting beach in Tortuguero National Park, Costa Rica. Proceedings of the 23rd Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFSC 536: 281-283.
62. **Wetterer, J.K.**, X. Espadaler, A.L. Wetterer, D. Aguin-Pombo, and A.M. Franquinho-Aguiar. 2006. Long-term impact of exotic ants on the native ants of Madeira. *Ecological Entomology* 31: 358-368.
63. **Wetterer, J.K.** 2006. Quotation error, citation copying, and ant extinctions in Madeira. *Scientometrics* 67: 351-372.
64. **Wetterer, J.K.** 2006. Ants (Hymenoptera: Formicidae) of Niue, Polynesia. *Pacific Science* 60: 413-416.
65. Ward, D.F., & **J.K. Wetterer**. 2006. Checklist of the ants of Fiji (Hymenoptera: Formicidae). *Bishop Museum Occasional Papers* 85: 23-47.
66. **Wetterer, J.K.** and A.L. Wetterer. 2006. A disjunct Argentine ant metacolony in Macaronesia and southwestern Europe. *Biological Invasions* 8: 1123-1129.
67. **Wetterer, J.K.** 2006. The vanished plague ants (Hymenoptera: Formicidae) of 19th century Bermuda. *Myrmecological News* 8: 219-224.
68. **Wetterer, J.K.**, and R.R. Snelling. 2006. The red imported fire ant, *Solenopsis invicta*, in the Virgin Islands (Hymenoptera: Formicidae). *Florida Entomologist* 89: 431-434.
69. Franquinho-Aguiar, A.M. and **J.K. Wetterer**. 2006. Mealybugs (Hemiptera: Pseudococcidae) and Argentine ants (Hymenoptera: Formicidae) in 19th century Madeira. *Boletim do Museu Municipal do Funchal* 57: 29-33.
70. **Wetterer, J.K.** 2007. Biology and impacts of Pacific islands invasive species. 3. The African big-headed ant, *Pheidole megacephala* (Hymenoptera: Formicidae). *Pacific Science* 61: 437-456.
71. **Wetterer, J.K.**, X. Espadaler, P. Ashmole, C. Cutler, and J. Endeman. 2007. Ants (Hymenoptera: Formicidae) of the South Atlantic islands of Ascension Island, St Helena, and Tristan da Cunha. *Myrmecological News* 10: 29-37.
72. **Wetterer, J.K.** 2007. *Paratrechina pubens* (Forel, 1893) (Hymenoptera: Formicidae), a candidate for the plague ant of 19th century Bermuda. *Myrmecological News* 10: 39-40.

73. **Wetterer, J.K.**, X. Espadaler, A. L. Wetterer, D. Aguin-Pombo, and A.M. Franquinho-Aguiar. 2007. Ants (Hymenoptera: Formicidae) of the Madeiran Archipelago. *Sociobiology* 49: 265-297.
74. **Wetterer, J.K.**, L. D. Wood, C. Johnson, H. Krahe, and S. Fitchett. 2007. Predaceous ants, beach replenishment, and nest placement by sea turtles. *Environmental Entomology* 36: 1084-1091.
75. Dutra, D. and **J.K. Wetterer**. 2007. Ants in myrmecophytic orchids of Trinidad (Hymenoptera Formicidae). *Sociobiology* 51: 249-254.
76. **Wetterer, J.K.** and S. Hugel. 2008. Worldwide spread of the ant cricket *Myrmecophilus americanus*, a symbiont of the longhorn crazy ant, *Paratrechina longicornis*. *Sociobiology* 52: 157-165.
77. **Wetterer, J.K.** and J.L.W. Keularts. 2008. Population explosion of the hairy crazy ant, *Paratrechina pubens* (Hymenoptera: Formicidae), on St. Croix, US Virgin Islands. *Florida Entomologist* 91: 423-427.
78. **Wetterer, J.K.** 2008 *Technomyrmex difficilis* (Hymenoptera: Formicidae) in the West Indies. *Florida Entomologist* 91: 428-430.
79. McCurdy, P. and **J. Wetterer**. 2008. The tropical fire ant, *Solenopsis geminata*, on an important sea turtle nesting beach in Carate, Osa Peninsula, Costa Rica. Proceedings of the 24th Annual Symposium on Sea Turtle Biology and Conservation, 2004, NOAA Technical Memorandum NMFS-SEFSC 567: 182.
80. **Wetterer, J.K.** 2008. Worldwide spread of the longhorn crazy ant, *Paratrechina longicornis* (Hymenoptera: Formicidae). *Myrmecological News* 11: 137-149.
81. **Wetterer, J.K.** 2009. Worldwide spread of the ghost ant, *Tapinoma melanocephalum* (Hymenoptera: Formicidae). *Myrmecological News* 12: 23-33.
82. **Wetterer, J.K.** 2009. Worldwide spread of the destroyer ant, *Monomorium destructor* (Hymenoptera: Formicidae). *Myrmecological News* 12: 97-108.
83. **Wetterer, J.K.**, A.L. Wild, A. V. Suarez, N. Roura-Pascual, and X. Espadaler. 2009. Worldwide spread of the Argentine ant, *Linepithema humile* (Hymenoptera: Formicidae). *Myrmecological News* 12: 187-194.
84. **Wetterer, J.K.** 2009. Worldwide spread of the penny ant, *Tetramorium bicarinatum* (Hymenoptera: Formicidae). *Sociobiology* 54: 811-830.
85. **Wetterer, J.K.** 2010. Worldwide spread of the flower ant, *Monomorium floricola* (Hymenoptera: Formicidae). *Myrmecological News* 13: 19-27.
86. **Wetterer, J.K.** and L.R. Davis, Jr. 2010. *Solenopsis invicta* (Hymenoptera: Formicidae) in the Lesser Antilles. *Florida Entomologist* 93: 128-129.
87. **Wetterer, J.K.** 2010. Worldwide spread of the wooly ant, *Tetramorium lanuginosum* (Hymenoptera: Formicidae). *Myrmecological News* 13: 81-88.

88. **Wetterer, J.K.** 2010. Worldwide spread of the pharaoh ant, *Monomorium pharaonis* (Hymenoptera: Formicidae). *Myrmecological News* 13: 115-129.
89. **Wetterer, J.K.** and C. D. Lombard. 2010. Fire ants on an important sea turtle nesting beach in St. Croix, US Virgin Islands. *Florida Entomologist* 93: 449-450.
90. **Wetterer, J.K.** 2010. Worldwide spread of the graceful twig ant, *Pseudomyrmex gracilis* (Hymenoptera: Formicidae). *Florida Entomologist* 93: 535-540.
91. **Wetterer, J.K.** and X. Espadaler. 2010. Invasive ants of Macaronesia. Pp. 133-144. In: A.R.M. Serrano, P.A.V. Borges, M. Boieiro & P. Oromí (Eds). *Terrestrial arthropods of Macaronesia – Biodiversity, Ecology and Evolution*. Sociedade Portuguesa de Entomologia, Lisbon.
92. **Wetterer, J.K.** 2011. Worldwide spread of the tropical fire ant, *Solenopsis geminata* (Hymenoptera: Formicidae). *Myrmecological News* 14: 21-35.
93. **Wetterer, J.K.** and A. Radchenko. 2011. Worldwide spread of the ruby ant, *Myrmica rubra* (Hymenoptera: Formicidae). *Myrmecological News* 14: 87-96.
94. **Wetterer, J.K.** 2011. Worldwide spread of the membraniferous dacetine ant, *Strumigenys membranifera* (Hymenoptera: Formicidae). *Myrmecological News* 14: 129-135.
95. **Wetterer, J.K.** and D.S. Dutra. 2011. Ants on sapling *Cecropia* in forest and urban areas of Trinidad (Hymenoptera: Formicidae). *Sociobiology* 58: 17-22.
96. **Wetterer, J.K.** 2011. Worldwide spread of the yellow-footed ant, *Nylanderia flavipes* (Hymenoptera: Formicidae). *Florida Entomologist* 94: 582-587.
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202. **Wetterer, J.K.** Worldwide spread of the punctate ponerine ant, *Hypoconera punctatissima* (Hymenoptera: Formicidae).
203. **Wetterer, J.K.** & F. Fernandez. Ants of Bogotá, Colombia.
204. **Wetterer, J.K.** Two distinct carpenter ant species under one name in Florida (Hymenoptera: Formicidae).
205. **Wetterer, J.K.** & F. Fernandez. Ants of San Andrés Island, Colombia.
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207. **Wetterer, J.K.** & A. Radchenko. Worldwide spread of *Myrmica speciosus* (Hymenoptera: Formicidae).
208. **Wetterer, J.K.** Geographic spread of *Prionopelta antillana* (Hymenoptera: Formicidae).
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210. **Wetterer, J.K.** Ants nesting in red mangroves of Trinidad.
211. **Wetterer, J.K.** & P. Boer. Ants (Hymenoptera: Formicidae) of the northernmost Lesser Antilles: Anguilla, Saint Martin, and Saint Barthélemy.

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WEB SITES

<https://www.fau.edu/honors/faculty/wetterer/>
<https://www.fau.edu/honors/documents/wetterercv.pdf>

CHILDREN'S STORIES

<http://ces.iisc.ernet.in/hpg/envis/nandoc1106.html>
 Kate's Caterpillars; Nancy's Whale; Mary Veronica and the Dragon
 Dinosaurs in the Backyard; Horseshoe Crabs and their Relatives

FAU MASTER'S THESES SUPERVISED

1. Ledesma, Karim. 2003. Small mammal community of bamboo forests in the Peruvian Amazon.
2. Krahe, Holly, B. 2005. Impact of the red imported fire ant (*Solenopsis invicta*) on two species of sea turtle hatchlings.
3. Carroll, Camille. 2009. Plant and ant communities in the northern Everglades.
4. Romais, Danielle. 2013. Fire ants on sea turtle nesting beaches in South Florida, USA, and St. Croix, USVI.
5. Balkaran, Kavita. 2014. The distribution of predaceous fire ant species on important sea turtle nesting beaches in St. Croix, U.S. Virgin Islands.

FAU HONORS COLLEGE UNDERGRADUATE THESES SUPERVISED

1. O'Hara, Brandon. 2003. Worldwide distribution of the long-legged ant, *Anoplolepis gracilipes*.
2. Hoy, Patrick. 2004. Island biogeography in the Florida Keys: an experiment revisited.
3. Leuchtmann, Amy. 2004. The current state and future concerns for coral reef systems off the coast of Florida.
4. Tortora, Daniela. 2004. Ants in myrmecophytic orchids (*Caularthron* spp.) of Trinidad.
5. Watts, J. Alexander. 2004. Trihalomethanes: determining their presence in local water supplies from Jupiter and Belle Glade, Florida.
6. Beerman, Matthew. 2006. The search for hidden correlations within studies of knee repairs and recoveries.
7. Burkhart, Brian. 2006. Bioprospecting for useful chemicals produced by the pyramid ant, *Dorymyrmex bureni*.
8. Goldberg, Jenna. 2006. Guanine and cytosine levels in the genomes of extremophilic and non-extremophilic organisms.
9. Barreto, Marie Y. 2007. Membrane permeability of scaffold peptides for potential use in orally administered anti-HIV drugs.
10. Bunting, Kristen. 2007. Sentiments of Pearl Harbor survivors toward the Japanese 65 years after the event.
11. Corsaro, Andrew. 2007. Intraspecific aggression in the longhorn crazy ant (*Paratrechina longicornis*).
12. McCurdy, Paul. 2007. Declining coral health and fish diversity in the South Pacific.
13. McCurdy, Robert E. 2007. Bioprospecting for useful compounds in the venom of *Crematogaster* ants.

14. Whitaker, Graham. 2007. Diet-based defensive secretions in harvestmen.
15. Zech, Rachel. 2007. Human mate selection: phenotype-matching in relationships.
16. Haji, Malik. 2008. House ants of Karachi, Pakistan.
17. Leech, Anna. 2008. False crawls by loggerhead sea turtles in Palm Beach County, Florida.
18. Rudduck, Whitney A. 2008. Intraspecific aggression in the brown rover ant, *Brachymyrmex obscurior*.
19. VanDam, Andrea. 2008. The influence of public access on raccoon predation on sea turtle nests in Boca Raton, Florida.
20. Caplan, Stacey. 2008. Biological electron transfer: an investigation of riboflavin.
21. Smith, Dana K. 2009. Fertility and shell selection in the blue leg hermit crab, *Clibanarius tricolor*.
22. Sollins, Benjamin. 2010. Intraspecific aggression in the difficult ant, *Technomyrmex difficilis* (Hymenoptera: Formicidae)
23. Baltazar Garcia, Moises. 2010. Microbial growth in different sources of bedding for research rodents.
24. Lefler, Jamie. 2010. Bioaccumulation of fluoride in freshwater snail shells.
25. Chong, Nicolas. 2010. Aggression in caged spider monkeys: an investigation into the lives of quarantined spider monkeys.
26. Leichner, Jared. 2010. Use of multisensory therapy by adolescents with co-occurring autism and profound intellectual disability.
27. Apap, Ian. 2011. Alarm pheromones in aquatic snail species: Schreckstoff and stuff.
28. Quach, Phuc. 2012. Nest architecture and social parasites of the pyramid ant, *Dorymyrmex bureni*.
29. Gonzalez, Jasmine. 2012. Behavioral enrichment of captive black bears (*Ursus americanus*).
30. Estep, Erica. 2013. The red imported fire ant versus humans.
31. Burnett, Brian. 2013. Bioprospecting and the identification of bio-active organic compounds found in the venom of *Crematogaster vicina* André.
32. Jones, Richard. 2013. Fire ants without fire: impact of reduction mowing on invasive fire ants at gopher tortoise burrows.
33. Ricketts, Kadeem. 2014. Testing for economic optimization in the antlion (*Myrmeleon* sp.)
34. Simmonds, Lori J. 2014. 2D:4D digit ratio and muscularity.

35. Stubbs, Harrison. 2014. The biochemical analysis and comparison of bio-active compounds in the venom of two Albanian ants, *Crematogaster* spp.
35. Dawoud, Mirelle. 2014. Mercury content in locally-caught fish in South Florida.
36. Brothers, David. 2015. Native versus exotic ants as a food resource for ant lion *Myrmeleon crudelis*.
37. Ridgeway, Ashley. 2015. Native and exotic apple snail (*Pomacea*) clutch density in Palm Beach County Nature Preserves.
38. Rashkin, Jared D. 2015. Losing patient autonomy with direct to consumer genetic screening.
39. Morton, Emily M.N. 2016. Florida Scrub-Jay (*Aphelocoma coerulescens*) population changes at Jonathan Dickinson State Park.
40. Capi, Donald J. 2016. How to improve the diets of college students.
41. Merritt, Mckenzie D. 2016. Using *C. elegans* as a model system to discover antiepileptic drugs.
42. Magloire, Jonathan. 2016. The antibiotic properties of Haitian castor oil.
43. Sawai, Guillermo G. 2016. Searching for anti-bacterial properties in venom of Albanian ants, *Crematogaster schmidtii*.
44. Colios, Samantha. 2016. The effects of ocean acidification on the common Atlantic *Marginella* snail.
45. Feliciano, Lylliam M. 2016. Cetacean mortality along the US East Coast attributed to Morbillivirus.
46. Bukata, Christina. 2017. Cellular senescence increases in *Ercc1^{-/-}* accelerated aging model.
47. Muravia, Mariya. 2017. Role of autophagy in DNA damage induced accelerated aging.
48. Skaf, Daniel. 2017. Long-term effects of pre-natal oxycodone exposure in mice.
49. Anderson, Ryan. 2018. Using eDNA analysis from water samples in common snook, *Centropomus undecimalis*, surveys.
50. Bryant, Andrew. 2018. Spread of an exotic trapjaw ant *Anochetus mayri* in South Florida
51. Galbraith-Howell, Carly. 2018. Training miniature horses for use in human therapy: clicker versus praise-based reward methods.
52. Lazo, Stephanie. 2018. The scientific and religious construction of female sexuality.
53. Patel, Meera. 2018. Dental fear in adults.
54. Pissarra, Cory. 2018. Can brain natriuretic peptide be a prognostic indicator for congestive heart failure patients nearing death?
55. Rivera, Dalian K. 2018. Decision-making games: effects on future decisions of adolescents.

56. Wang, Calren. 2018. 2D:4D finger ratio in cross-fit athletes.
57. Holmes, Taylor. 2018. Osseointegration and patient satisfaction.
58. Jackson, Edward. 2018. Neuroprotective effects of Ceftriaxone on the MBlac1 knockout mouse in conditioned place preference paradigm.
59. Jean-Francois, Shermanda. 2018. Health disparities among African-Americans: charting a new course.
60. Lafon, Erin. 2018. Reference intervals for blood morphology of hatchling loggerhead sea turtles.
61. King, Tyler. 2019. Spiny-backed orb-weaver (*Gasteracantha cancriformis*) population changes at John D. Macarthur State Park.
62. Quesnel, Julie D. 2019. Terrestrial isopods (Isopoda: Oniscidea) of the Robert J. Huckshorn Arboretum in Jupiter, Florida.
63. Barr, Kaley T. 2019. Ants (Hymenoptera: Formicidae) of cypress habitat in southeast Florida.
64. Tarleton, Hannah. 2019. Assessing virtual reality mindfulness training in undergraduates
65. Bewley, Anne. 2019. Possible threat of stinging ants to captive wildlife at Busch Wildlife Sanctuary in Florida
66. Wallington, John. 2019. Spread of the invasive brown basilisk, *Basiliscus vittatus*, in Florida.
67. Salick, Danielle Victoria. 2019. Ants nesting in the red mangroves of Trinidad.
68. Banger, Katherine. 2020. Trichome form and function in poorman's patch, *Mentzelia floridana* (Loasaceae).
69. Depatie, Trinity H. 2020. Phylogeography of the burrowing four o'clock, *Okenia hypogaea* (Nyctaginaceae).
70. Jaramillo, Daniela S. 2020. Vegan diets for domestic dogs and cats.
71. Raad, Rina. 2020. Dental remedy for obstructive sleep apnea.
72. Kruisland, Gillian B. 2020. Effective treatment for canine intervertebral disc disease.
73. McComie, Myca-Lee. 2020. Novel gene therapy technique to treat hereditary deafness.
74. Rodriguez Suarez, Michelle. 2020. Targeting cancer stem cells using oncolytic adenoviruses.
75. Garcia, Alberto. 2021. Effective treatments and vaccines for Covid-19.
76. Ilamadi, Kartikk M. 2021. The efficacy of vaccines for SARS.CoV-2.
77. Viluan, Valerie 2021. Stinging ants at gopher tortoise burrows.
78. Dorcin, Jemima. 2021. Ethical issues concerning “savior offspring.”

79. Young, Jessica. 2021. Asexual reproduction of native and non-native species of milkweed in variant soil conditions
80. Harman, Selenia. 2021. Florida bonneted bat (*Eumops floridanus*): feeding activity and bright stadium lights.
81. Thomas, Georgia. 2021. Therapeutic uses of cannabidiol (CBD).
82. Osuna, Ashley. 2022. Red imported fire ants (*Solenopsis invicta*) infesting American alligator (*Alligator mississippiensis*) nests.
83. Ranaweera, Esha. 2022. Altruistic behavior among captive chimpanzees.
84. Gomes, Brenda. 2022. Reintroduction of the threatened Pine Pink orchid, *Bletia purpurea*, thwarted by a feral pig.
85. Engstrom, David. 2022. Domestication pacification: bringing the wilds to us.
86. McNamara, Owen. 2022. Recreational drugs in American medicine through history.
87. Carter, Quest. 2022. Chemical analysis of *Heliconia* bract liquid via gas chromatography-mass spectrometry.
88. Bates, Malaika. 2023. A floral survey of the Abacoa Gopher Tortoise Preserve.
89. Angela Calicchio. 2023. Naturalized populations of the deviltree, *Alstonia macrophylla*, in South Florida.
90. Elkins, Jessica. 2023. Floral survey and species checklist of Frenchman's Forest.
91. Fernandez, Ariel. 2023. A survey of Florida bat species feeding at highway rest areas
92. King, Samuel. 2023. Geographic distribution of spiny-backed orb weaver (*Gasteracantha cancriformis*) color morphs in the Americas.
93. Mnayarji, Hannah. 2023. Floral inventory and historical analysis of the FAU Ecological Preserve.
94. Sadek, Mark A. 2023. The sting that cures: bee venom and its therapeutic future.
95. Womble, Hunter. 2023. Two *Parmotrema* lichen species as pollution bioindicators in Florida.
96. Schindler, Diana. 2023. Altruistic behaviors in captive African elephants.
97. Leon-Guim, Mei. 2023. Avian rehabilitation at Busch Wildlife Sanctuary