

## STEPHEN P. YANOVIK, PH.D.

Department of Biology, University of Louisville, 139 Life Sciences Building, Louisville, Kentucky 40292  
e-mail: steve.yanoviak@louisville.edu • September 2012

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### EDUCATION

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- 1999 **Ph.D.** University of Oklahoma, Zoology. Dissertation: *Community ecology of water-filled tree holes in Panama*. Advisor: O. M. Fincke. Awarded Dissertation of the Year in College of Arts & Sciences.
- 1993 **M.S.** Purdue University, Entomology. Thesis: *Aquatic macroinvertebrate assemblages in lake-outlet and dendritic streams of the Huron Mountain region of Michigan*. Advisor: W. P. McCafferty
- 1991 **B.S.** Auburn University, Entomology, *magna cum laude*. Mentor: G. W. Folkerts

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### PROFESSIONAL POSITIONS

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- 2012-pres. **Wallace Endowed Chair of Conservation.** Department of Biology, University of Louisville.
- 2012-pres. **Assistant Professor.** Department of Biology, University of Louisville.
- 2007-12 **Assistant Professor.** Department of Biology, University of Arkansas at Little Rock.
- 2007-12 **Adjunct Faculty.** Department of Biological Sciences, University of Arkansas, Fayetteville.
- 2001-07 **Visiting Faculty.** University of Florida, Florida Medical Entomology Laboratory, Vero Beach.
- 2005-11 **Consultant/Associate**
- Virginia Commonwealth Univ. *Research affiliate*. Service on grad committees. 2011-12.
  - Electric Sky Productions. *Canopy videography for "3D Rainforest" movie*. 2011.
  - Friday, Eldredge & Clark, LLP. *Expert witness*. 5 civil suits regarding bed bugs. 2010.
  - FTN Associates, Ltd., Arkansas. *Quality assessment of insect identifications*. 2008-09.
  - Innovative Vector Control Consortium, Peru. *Ecology of malaria and dengue fever*. 2007.
  - Univ. of Texas Medical Branch, Galveston. *Ecology of Everglades virus vectors*. 2007.
  - Griffin Lab., Wadsworth Center, NY. *Genetic diversity of malaria vectors in Peru*. 2006.
  - Smithsonian Institution Monitoring and Assessing Biodiversity (SIMAB) Program. *Canopy ant diversity in Gabon*. 2006.
  - BBC Natural History Unit. *Videography of tropical ants for "Planet Earth" series*. 2005.
- 2001-06 **Postdoctoral Fellow.** University of Texas Medical Branch, Galveston, TX. *Effects of deforestation on ecology of arbovirus vectors in the Peruvian Amazon*.
- 1999-2001 **Postdoctoral Research Associate.** The Evergreen State College, Olympia, WA. *Canopy arthropods in primary and secondary cloud forests of Monteverde, Costa Rica*.
- 1999 **Postdoctoral Research Associate.** University of Oklahoma, Norman, OK. *Ant ecology*.

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### HONORS

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|--------------------------------|--------------------------------------|
| Fulbright Scholar              | Smithsonian Fellow                   |
| Phi Kappa Phi Honor Society    | Sigma Xi                             |
| Tri-Beta Biology Honor Society | Gamma Sigma Delta Honor Society      |
| Gamma Beta Phi Honor Society   | Who's Who in Science and Engineering |

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**AFFILIATIONS**


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Society for Experimental Biology	Florida Entomological Society
Association for Tropical Biology & Conservation	International Canopy Network
Ecological Society of America	Michigan Entomological Society
Entomological Society of America	American Society of Naturalists
Society for Integrative & Comparative Biology	Am. Assoc. for the Advancement of Science

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**GRANTS AND AWARDS**


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- NSF IOS-0843120 "How to fall from trees: biomechanics and ecology of gliding in arthropods" \$252,547
- NSF REU Supplements to IOS-0843120, \$11,458
- Franklin Research Award, American Philosophical Society, "Lianas affect canopy ant diversity", \$6000
- National Geographic Society, CRE 8352-07, "On the biogeography of salt" (co-PI), \$21,000
- National Geographic Society, CRE 7896-05, "Gliding flight in tropical canopy ants" (PI), \$20,000
- Amazon Conservation Association, "Behavioral ecology of tropical canopy ants" (PI), \$9000
- UALR Northrop Research Award, \$500
- NSF DEB-9975510, "Effects of disturbance on the diversity and functional roles of canopy communities in a tropical montane landscape" (Postdoc coauthor with N. Nadkarni), \$300,000
- J. W. Fulbright Fellowship, \$17,000
- Smithsonian Graduate Fellowship, \$3000
- Explorer's Club Exploration Grant, \$1150
- Huron Mountain Foundation Wildlife Research Grant, \$3000
- Provost's Award, University of Oklahoma Dissertation of the Year in Math & Science, \$1000
- Sigma-Xi Grants in Aid of Research (2), \$1000
- Misc. Student Grants, Awards & Scholarships, \$7085

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**RESEARCH INTERESTS**


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My research examines how species interactions and anthropogenic disturbance shape species richness in terrestrial and small aquatic communities. My approach is field-based and focuses on systems in which arthropods are the dominant macrofauna. Current major projects include: 1) Ecological relevance of lianas to ant diversity in the tropical forest canopy; 2) The role of gliding behavior in the evolution of winged flight in insects; and 3) Effects of disturbance (e.g., fire, deforestation) on litter decomposition rates and arthropod community structure in temperate and tropical forests.

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**REFEREED PUBLICATIONS** (mentored undergraduate coauthors are underlined, international collaborators are *italicized*, \* = supervising/anchor author)

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- Yanoviak, S. P.**, C. Silveri, C. A. Hamm, and *M. Solis*. 2012. Vine characteristics and foraging in tropical ants. *Journal of Tropical Ecology* 28: 199-204.
- Dáttilo, W., J. C. F. Falcão, **S. P. Yanoviak**, G. Poinar, Jr., and T. J. Izzo. 2012. The geographic distribution of parasite induced fruit mimicry in *Cephalotes atratus* (Formicidae: Myrmicinae). *Journal of Parasitology* (in press)
- Dudley, R., M. Kaspari and **S. P. Yanoviak**. 2012. Lust for salt in the western Amazon. *Biotropica* 44: 6-9.
- Verble, R. M., A. D. Meyer, M. G. Kleve, and **S. P. Yanoviak\***. 2012. Exoskeletal thinning in *Cephalotes atratus* ants (Hymenoptera: Formicidae) parasitized by *Myrmeconema neotropicum* (Nematoda: Tetradonematidae). *Journal of Parasitology* 98: 226-228.
- Yanoviak, S. P.**, Y. Munk and R. Dudley. 2011. Ecology and evolution of gliding behavior in ants. *Integrative and Comparative Biology* 51: 944-956.
- Dudley, R. and **S. P. Yanoviak**. 2011. Animal aloft: the origins of aerial behavior and flight. *Integrative and Comparative Biology* 51: 926-936.
- Yanoviak, S. P.**, *S. M. Berghoff*, *K. E. Linsenmair*, and *G. Zotz*. 2011. Effects of an epiphytic orchid on arboreal ant community structure in Panama. *Biotropica* 43: 731-737.
- Shik, J. Z., M. Kaspari, and **S. P. Yanoviak\***. 2011. Preliminary assessment of metabolic costs of the nematode *Myrmeconema neotropicum* on its host, the tropical ant *Cephalotes atratus*. *Journal of Parasitology* 97: 958-959.
- Yanoviak, S. P.**, Y. Munk, M. Kaspari, and R. Dudley. 2010. Aerial maneuverability in wingless gliding ants (*Cephalotes atratus*). *Proceedings of the Royal Society of London B* 277: 2199-2204.
- Yanoviak, S. P.** 2010. The directed aerial descent of arboreal ants. Pages 223-224 in: L. Lach, C. L. Parr, and K. Abbott (eds.). *Ant ecology*. Oxford University Press, Oxford.
- Yanoviak, S. P.** 2010. "Berry" ants: an eye-popping symbiosis from the rainforest canopy. Pages 98-99 in: L. Lach, C. L. Parr, and K. Abbott (eds.). *Ant ecology*. Oxford University Press, Oxford.
- Clay, N. A., M. Bauer, *M. Solis*, and **S. P. Yanoviak\***. 2010. Arboreal substrates and foraging in tropical arboreal ants. *Ecological Entomology* 35: 417-423. (nominated for ATBC best student paper award)
- Weiser, M. D., N. J. Sanders, D. Agosti, A. M. Ellison, B. L. Fisher, H. Gibb, N. J. Gotelli, A. D. Gove, K. Gross, B. Guénard, M. Janda, M. Kaspari, J.-P. Lessard, J. T. Longino, J. D. Majer, S. B. Menke, T. P. McGlynn, C. L. Parr, S. M. Philpott, J. Retana, A. V. Suarez, H. L. Vasconcelos, **S. P. Yanoviak**, and R. R. Dunn. 2010. Canopy and litter ant assemblages share similar climate-species density relationships. *Biology Letters* 6: 769-772.
- Yanoviak, S. P.**, M. Kaspari, and R. Dudley. 2009. Gliding hexapods and the origins of insect aerial behaviour. *Biology Letters* 5: 510-512.
- Kaspari, M., and **S. P. Yanoviak**. 2009. Biogeochemistry and the structure of tropical brown food webs. *Ecology* 90: 3342-3351.
- Kaspari, M., **S. P. Yanoviak**, R. Dudley, M. Yuan, and N. Clay. 2009. Sodium shortage as a constraint on the carbon cycle in an inland tropical rainforest. *Proceedings of the National Academy of Sciences* 106: 19405-19409.
- Bradley, T. J., A. D. Briscoe, S. G. Brady, H. L. Contreras, B. N. Danforth, R. Dudley, D. Grimaldi, J. F. Harrison, J. A. Kaiser, C. Merlin, S. M. Reppert, J. M. VandenBrooks, and **S. P. Yanoviak**. 2009. Episodes in insect evolution. *Integrative and Comparative Biology* 49: 590-606.

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**REFEREED PUBLICATIONS** (continued; undergrads underlined, *international collaborators italicized*)

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- Yanoviak, S. P.**, B. L. Fisher, and A. Alonso. 2008. Directed aerial descent behavior in Afrotropical canopy ants (Hymenoptera: Formicidae). *Journal of Insect Behavior* 21: 164-171.
- Yanoviak, S. P.**, M. Kaspari, R. Dudley, and G. Poinar, Jr. 2008. Parasite-induced fruit mimicry in a tropical canopy ant. *American Naturalist* 171: 536-544.
- Kaspari, M., and **S. P. Yanoviak**. 2008. Biogeography of litter depth in tropical forests: evaluating the phosphorus growth rate hypothesis. *Functional Ecology* 22: 919-923.
- Kaspari, M., **S. P. Yanoviak**, and R. Dudley. 2008. On the biogeography of salt limitation: a study of ant communities. *Proceedings of the National Academy of Sciences* 105: 17848-17851.
- Poinar, G., Jr. and **S. P. Yanoviak**. 2008. *Myrmeconema neotropicum* n. g., n. sp., a new tetradonematid nematode parasitising South American populations of *Cephalotes atratus* (Hymenoptera: Formicidae), with the discovery of an apparent parasite-induced host morph. *Systematic Parasitology* 69: 145-153.
- Mirabello, L., J. H. Vineis, **S. P. Yanoviak**, V. M. Scarpassa, M. M. Póvoa, N. Padilla, J. P. Grieco, and J. E. Conn. 2008. Microsatellite data suggest significant population structure and differentiation within the malaria vector *Anopheles darlingi* in Central and South America. *BMC Ecology* 8: 3.
- Yanoviak, S. P.**, N. M. Nadkarni, *R. Solano J.* 2007. Arthropod assemblages in epiphyte mats of Costa Rican cloud forests. *Biotropica* 36: 202-210.
- Yanoviak, S. P.**, B. L. Fisher, and A. Alonso. 2007. Diversity of arboreal ants in a central African forest (Hymenoptera: Formicidae). *African Journal of Ecology* 46: 60-66.
- Ramírez, J. E., **S. P. Yanoviak\***, L. P. Lounibos, and S. C. Weaver. 2007. Distribución vertical de *Haemagogus janthinomys* (Dyar) (Diptera: Culicidae) en bosques de la Amazonía Peruana. *Revista peruana de Medicina Experimental y Salud Pública* 24: 40-45.
- Willig, M. R., S. J. Presley, C. P. Bloch, C. L. Hice, **S. P. Yanoviak**, *M. M. Díaz, L. A. Chauca, V. Pacheco,* and S. C. Weaver. 2007. Phyllostomid bats of lowland Amazonia: effects of habitat alteration on abundance. *Biotropica* 39: 737-746.
- Dudley, R., G. Byrnes, **S. P. Yanoviak**, B. Borrell, R. Brown, and J. McGuire. 2007. Gliding and the functional origins of flight: biomechanical novelty or necessity? *Annual Review of Ecology, Evolution, and Systematics* 38: 179-201.
- Yanoviak, S. P.** and R. Dudley. 2006. The role of visual cues in directed aerial descent of *Cephalotes atratus* workers (Hymenoptera: Formicidae). *Journal of Experimental Biology* 209: 1777-1783.
- Yanoviak, S. P.**, L. P. Lounibos, and S. C. Weaver. 2006. Land use affects macroinvertebrate community composition in phytotelmata in the Peruvian Amazon. *Annals of the Entomological Society of America* 99: 1172-1181.
- Yanoviak, S. P.**, J. E. Ramírez P., L. P. Lounibos, and S. C. Weaver. 2006. Deforestation alters mosquito habitat availability and production in the Peruvian Amazon. *Ecological Applications* 16: 1854-1864.
- Yanoviak, S. P.** and O. M. Fincke. 2005. Sampling methods for water-filled tree holes and their analogs. Pp. 168-185 in: S. Leather (ed.) *Insect Sampling in Forest Ecosystems*. Blackwell Science, London.
- Yanoviak, S. P.**, R. Dudley, and M. Kaspari. 2005. Directed aerial descent in canopy ants. *Nature* 433: 624-626.
- Yanoviak, S. P.**, *P. Aguilar,* L. P. Lounibos, and S. C. Weaver. 2005. Transmission of a Venezuelan equine encephalitis (VEE) complex alphavirus by *Culex (Melanoconion) gnomatos* (Diptera: Culicidae) in northeastern Peru. *Journal of Medical Entomology* 42: 404-408.
- Alto, B. W., **S. P. Yanoviak\***, L. P. Lounibos, and B. G. Drake. 2005. Effects of elevated atmospheric CO<sub>2</sub> on water chemistry and mosquito (Diptera: Culicidae) growth under competitive conditions in container habitats. *Florida Entomologist* 88: 372-382.

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**REFEREED PUBLICATIONS** (continued; undergrads underlined, *international collaborators italicized*)

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- Schonberg, L., J. T. Longino, N. M. Nadkarni, **S. P. Yanoviak**, and J. C. Gering. 2004. Arboreal ant species richness in primary forest, secondary forest, and pasture habitats of a tropical montane landscape. *Biotropica* 36: 402-409.
- Aguilar, P., I. Greene, L. Coffey, A. Moncayo, G. Medina, M. Anishchenko, G. Ludwig, M. Turell, M. O'Guinn, J. Lee, R. Tesh, D. Watts, K. Russell, C. Hice, **S. Yanoviak**, A. Morrison, H. Guzman, A. Travassos da Rosa, *C. Guevara*, T. Kochel, J. Olson, *C. Cabezas*, and S. C. Weaver. 2004. Endemic Venezuelan equine encephalitis in northern Peru. *Emerging Infectious Diseases* 10: 880-888.
- Yanoviak, S. P.**, H. Walker, and N. M. Nadkarni. 2004. Arthropod assemblages in vegetative vs. humic portions of epiphyte mats in a neotropical cloud forest. *Pedobiologia* 48: 51-58.
- Yanoviak, S. P.**, G. Kragh and N. M. Nadkarni. 2003. Spider assemblages in Costa Rican cloud forests: effects of forest level and forest age. *Studies on Neotropical Fauna and Environment* 38: 145-154.
- Yanoviak, S. P.**, N. M. Nadkarni and J. C. Gering. 2003. Arthropods in epiphytes: a diversity component that is not effectively sampled by canopy fogging. *Biodiversity and Conservation* 12: 731-741.
- Yanoviak, S. P.** 2001. The macrofauna of water-filled tree holes on Barro Colorado Island, Panama. *Biotropica* 33: 110-120
- Yanoviak, S. P.** 2001. Predation, resource availability and community structure in Neotropical water-filled tree holes. *Oecologia* 126: 125-133.
- Yanoviak, S. P.** 2001. Container color and location affect macroinvertebrate community structure in artificial treeholes in Panama. *Florida Entomologist* 84: 265-271.
- Yanoviak, S. P.** and N. M. Nadkarni. 2001. Arthropod diversity in epiphytic bryophytes of a Neotropical cloud forest. Pp. 416-419 in: Tropical ecosystems: structure, diversity and human welfare. *Proc. of the International Conference on Tropical Ecosystems*. Oxford-IBH, New Delhi.
- Kaspari, M. E. and **S. P. Yanoviak**. 2001. Bait use in tropical litter and canopy ants—evidence of differences in nutrient limitation. *Biotropica* 33: 207-211.
- Yanoviak, S. P.** and M. E. Kaspari. 2000. Community structure and the habitat templet: ant assemblages in the tropical canopy and litter. *Oikos* 89: 259-266.
- Yanoviak, S. P.** 1999. Effects of *Mecistogaster* spp. (Odonata: Pseudostigmatidae) and *Culex mollis* (Diptera: Culicidae) on litter decomposition in neotropical treehole microcosms. *Florida Entomologist* 82: 462-468.
- Yanoviak, S. P.** 1999. Effects of leaf litter species on macroinvertebrate community properties and mosquito yield in Neotropical tree holes. *Oecologia* 120: 147-155.
- Yanoviak, S. P.** 1999. Distribution and abundance of *Microvelia cavicola* Polhemus (Heteroptera: Veliidae) on Barro Colorado Island, Panama. *Journal of the New York Entomological Soc.* 107: 38-45.
- Yanoviak, S. P.** 1999. Community structure in tropical water-filled tree holes: effects of height and size. *Selbyana* 20: 106-115.
- Fincke, O. M., **S. P. Yanoviak** and R. Hanschu. 1997. Predation by odonates depresses mosquito abundance in water-filled tree holes in Panama. *Oecologia* 112: 244-253.
- Yanoviak, S. P.** and W. P. McCafferty. 1996. Comparison of macroinvertebrate assemblages inhabiting pristine streams in the Huron Mountains of Michigan, USA. *Hydrobiologia* 330: 195-211.
- Yanoviak, S. P.** and W. P. McCafferty. 1995. Stream size and the distribution of selected Ephemeroptera. Pp. 225-236 in: Corkum, L. D. and J. H. Ciborowski (eds.). *Current Directions in Research on Ephemeroptera*. Canadian Scholars' Press, Toronto.

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**OTHER PUBLICATIONS**


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- Azorsa, F.* and J. Sosa-Calvo. 2008. Description of a remarkable new species of ant in the genus *Daceton* Perty (Formicidae: Dacetini) from South America. *Zootaxa* 1749: 27-38. (I directed the field work and provided the funding for this outstanding undergraduate student project.)
- Yanoviak, S. P.** 2005. (popular article) Gliding ants in tropical forests. *What's Up?* Newsletter of the International Canopy Network 11(2): 1-3.
- Yanoviak, S. P.** 2001. (book review) Kitching, R. L.: Food Webs and Container Habitats – The Natural History and Ecology of Phytotelmata. *Plant Systematics and Evolution* 227: 251-254.
- Yanoviak, S. P.** 1999. (popular article) Investigating arthropods associated with tropical cloud forest epiphytes. *What's Up?* Newsletter of the International Canopy Network 6(1): 4.
- Fincke, O. M. and **S. P. Yanoviak.** 1996. (abstract) Consequences of obligate killing on the population dynamics of odonates and their mosquito prey in tropical tree holes. *Proceedings of the 20th International Congress on Entomology*. Firenze, Italy. p. 337.
- Yanoviak, S. P.** and G. W. Folkerts. 1991. (abstract) Sarcophagid flies associated with pitcher plants (*Sarracenia* spp.) in the central Gulf Region. *Journal of the Alabama Acad. of Science* 62: 80.

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**INVITED PRESENTATIONS (past 5 years only)**


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- 2012 *Arboreal ant diversity in tropical forests*. Department of Entomology, Univ. of California, Riverside
- 2012 *Bridging the gaps: connectivity in the forest canopy*. Department of Biology, University of Louisville
- 2011 *Behavior and ecology of canopy ants*. University of Central Arkansas, Conway, Arkansas
- 2011 *Lianas and canopy ant diversity*. XX Latin American Myrmecology Symposium, Rio de Janeiro, Brazil
- 2011 *Ant ecology and behavior in the tropical forest canopy*. Dept. of Biology, NC State University
- 2011 *Doing science in the forest canopy*. Interdisciplinary tree climbing workshop, NC State University
- 2011 *Lianas and ant diversity in the tropical forest canopy*. Integrative Biology, UC-Berkeley
- 2011 *Directed aerial descent in tropical canopy arthropods*. Department of Entomology, Univ. of Illinois
- 2011 *Ecology of tropical canopy ants*. Simmons Memorial Lecture, Department of Entomology, Michigan State University
- 2010 *Gliding arthropods and the evolution of insect flight*. Department of Entomology seminar, Smithsonian Institution, Washington, D.C.
- 2010 *Insects in the tropical forest canopy*. Entomological Society of Washington seminar, Washington, D.C.
- 2010 *Behavior and ecology of arboreal ants in tropical forests*. Department of Entomology seminar, University of California, Davis
- 2010 *Ants in the tropical forest*. Imported Fire Ant conference, Little Rock, Arkansas (plenary speaker)
- 2009 *An eye-catching case of host manipulation in the tropical rainforest canopy*. Canadian Society of Zoologists annual meeting, Toronto, Canada (plenary speaker)
- 2009 *Gliding ants of the rainforest and the evolution of winged flight in insects*. Arkansas INBRE Conference, Fayetteville, Arkansas
- 2009 *Behavior and ecology of canopy ants*. University of Agricultural Sciences, Bangalore, India
- 2008 *Directed aerial descent in tropical canopy arthropods*. XXIII International Congress of Entomology, Durban, South Africa
- 2008 *Ecology of arthropods in tropical phytotelmata*. Dept. of Entomology, Univ. of Arkansas, Fayetteville

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## **INVITED PRESENTATIONS** (continued)

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- 2007 *Directed aerial descent behavior in tropical arthropods*. Department of Integrative Biology Biomechanics Seminar Series, University of California, Berkeley
- 2007 *How to fall from trees: Behavioral ecology of ants in the tropical rain forest canopy*. Department of Biological Sciences, University of Arkansas, Fayetteville
- 2007 *Behavior and ecology of tropical arthropods*. Dept. of Applied Science, Univ. of Arkansas-Little Rock
- 2007 *Directed aerial descent in tropical canopy arthropods*. Society for Experimental Biology, Glasgow
- 2007 *De la selva, sus hormigas*. Amazon Conservation Association, Madre de Dios, Peru (in Spanish)

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## **TEACHING EXPERIENCE**

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### **Courses Taught at UofL**

Invertebrate Zoology (forthcoming, spring 2013)

### **Courses Taught at UALR**

Evolution, Tropical Biology, Entomology, Invertebrate Zoology, Animal Behavior, Principles of Ecology, Forest Canopy Biology, Senior Seminar, Science & Society, and Undergraduate Independent Research

**REU Mentor** Organization for Tropical Studies, La Selva Biological Station, Costa Rica. 2006-10.  
Responsibilities: assist undergraduate students with the development and execution of field projects.

### **Graduate/Undergraduate Research Advisor**

#### **University of Louisville. 2012-present**

- W. Rimmele (PhD) – Ecology of North American forest ants

#### **University of Arkansas at Little Rock. 2008-2012**

- R. Verble (PhD) – Ecology of North American forest ants
- T. Sumnicht (MS) – Community ecology of litter arthropods in Panama
- D. Frederick (MS) – Selection pressures associated with gliding behavior in ants
- P. Moreira (MS, BS Honors Thesis) – Diversity of temperate arboreal ants.
- M. Teague (BS Honors Thesis) – Intraspecific communication in periodical cicadas.
- S. King (BS Honors Thesis) – Foraging behavior of temperate arboreal ants.

#### **Universidad Nacional de la Amazonia Peruana, 2002-2005**

- S. R. Angulo (BS) - Feeding habits of bats in three habitat types in the Peruvian Amazon.
- J. E. Ramírez (BS) - Deforestation and density of phytotelmata in the Peruvian Amazon.
- E. Requena (BS) - Vertical stratification and trap susceptibility of *Sabethes* and *Haemagogus* mosquitoes across a range of habitat types in the Peruvian Amazon.
- J. E. Ramírez (MS) - Changes in mosquito composition in container habitats along a deforestation gradient in the Peruvian Amazon.

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**UNIVERSITY AND PROFESSIONAL SERVICE** (past 10 years only)

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UofL Biology Department, Personnel Committee, 2012-pres.

UofL Biology Department, Graduate Committee, 2012-pres.

UALR Biology Department: search committee chair (3 consecutive searches), curriculum committee, graduate committee 2007-2012

UALR Campus-wide: faculty senate (Biology rep.), faculty governance committee, faculty senate executive committee (Parliamentarian), Chancellor's policy advisory committee, etc. 2007-2012

Research Advisory Board member, Center for Biodiversity Studies (CEBIO), Peru. 2010-pres.

Scientific Research Board member, Amazon Conservatory for Tropical Studies (ACTS), Peru. 2010-pres.

Co-coordinator & moderator, gliding symposium, SICB annual meeting, 2011

Co-moderator, Traditional Ecological Knowledge, Ecological Society of Am. annual meeting, 2003

**Manuscript reviews** (I generally review 3 papers for each one I submit): *The American Naturalist*, *Journal of Experimental Biology*, *Proceedings of the Royal Society of London B*, *Ecology*, *Ecology Letters*, *Arthropod-Plant Interactions*, *Oecologia*, *Journal of Animal Ecology*, *Biological Conservation*, *Biotropica*, *Ecography*, *Ecological Research*, *Insectes Sociaux*, *Journal of Insect Behavior*, *Journal of Insect Conservation*, *Insect Conservation & Diversity*, *Journal of Insect Science*, *Psyche*, *Journal of Tropical Ecology*, *Journal of Vector Ecology*, *Journal of Parasitology*, *Great Lakes Entomologist*, *Selbyana*, *Environmental Entomology*, *Ecological Entomology*, *Journal of Medical Entomology*, *Entomological News*, *Austral Ecology*, *New Zealand Journal of Marine and Freshwater Research*, *American Journal of Tropical Medicine and Hygiene*, *Studies on Neotropical Fauna and Environment*, *Journal of the Arkansas Academy of Science*, *Journal of the Argentine Entomological Society*, *African Journal of Food Science*, *Brazilian Archives of Biology and Technology*, *Revista de Biología Tropical*, and *Current Directions in Research on Ephemeroptera*.

**Research proposal reviews:** *NSF Ecosystem Studies Program*, *NSF International Research Fellowship Program*, *NSF International Research Experiences for Students Program*, *NSF Pan-American Advanced Studies Institutes Program*, *NSF Systematic Biology and Biodiversity Inventories Program*, *NSF Partnerships for International Research and Education Program*, *National Geographic Society*, *Florida Agricultural Experiment Station*, *Arkansas State Wildlife Grants*

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**OUTREACH AND COMMUNITY SERVICE** (past 5 years only)

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Global Explorers Amazon Adventure instructor ([www.globalexplorers.org](http://www.globalexplorers.org)), 2009-2012

Live research webcast to St. Ignatius High School biology students, Chicago, 2011

"Biologist for a Day" program, St. Edwards School, Little Rock, 2010

EarthSky Global Science Advisors (Earth & Sky NPR show), 2008

Exhibitor & volunteer, Arkansas Insect Festival, Fayetteville, 2008, 2010

Volunteer, Arkansas Museum of Discovery, Insect Expo, 2008

Volunteer, Community Theatre of Little Rock, 2007-8

Volunteer, Arkansas Repertory Theatre, Little Rock, 2007-8



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**RESEARCH-RELATED MEDIA ATTENTION**


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**Television**

- 2010 ZDF (Germany), *Panama – Ein Zwerg verändert die Welt*
- 2009 KARK, Little Rock, Channel 4 – *Lyme disease in Arkansas*
- 2008 CBC News: *Today*, 21 January
- 2007 Natural History New Zealand (Animal Planet), *The Most Extreme*
- 2005 Discovery Channel Canada, 9 February
- 2005 News feature, Canal+ (France)
- 2001 News feature, Costa Rica Channel 6, Repretel Productions, 26 May
- 2001 News feature, Costa Rica Channel 2 feature, 28 March
- 2000 *Peoples' Planet*, CNN
- 1998 *Am Dach des Regenwaldes* (Austria), Interspot Films
- 1997 *Panama Wild*, National Geographic/Oxford Scientific Films

**Radio** (details and recordings available upon request)

- 2009 RadioLab, "Parasites", 7 September
- 2008 BBC, *The Naked Scientists*, 20 January
- 2008 *Scientific American* podcast, 5 February
- 2008 NPR, *Earth & Sky*, 19 July
- 2008 CBC Radio, *Quirks & Quarks*, 26 January
- 2007 Deutschlandfunk *Gleiter ohne Fallschirm* 11 April
- 2006 *New York Times* podcast 4 April
- 2005 CBC Radio, *Quirks & Quarks*, 19 February
- 2005 BBC, *The Naked Scientists*, 13 February
- 2005 NSF, *Imagine That!*, 6 June

**Newspapers** (a representative sample)

- 2010 *The Guardian*, "Gliding ants use their legs as rudders", 17 March
- 2010 Yahoo News "Tropical ants use their legs as rudders to glide to safety from predators"
- 2010 BBC news, "Gliding ants reveal their steering secrets"
- 2008 *New York Times*, Science Observatory, 8 Apr.
- 2008 *Arkansas Democrat-Gazette* "Professor at UALR finds hangers-on" p. 2B 25 Jan.
- 2008 *Neue Zuercher Zeitung* (Switzerland) "Ameisen in verführerischem Beerenkostüm" 30 Jan.
- 2008 *San Francisco Chronicle*, 17 January
- 2006 *New York Times*, Science Times, "Wingless gliders may reveal the origins of insect flight", 4 Apr.
- 2006 *Panamá América*, "Primer encuentro en Panamá", 17 April
- 2005 *New York Times*, "Landing on Their Tiny Feet", 15 February, p. D3
- 2005 *Los Angeles Times*, "Science File", 12 February, p. A13
- 2005 *Galveston Co. Daily News*, <http://galvestondailynews.com/story.lasso?ewcd=73c68a45f0c5f360>
- 2005 *La Prensa* (Panama), "Hormigas selváticas dominan caída libre", 21 February
- 2005 *The Daily Cal*, UC Berkeley, March
- 2005 Ripley's Believe it or Not!, 23 March
- 2001 *La Republica*, San Jose, Costa Rica, "Paraíso de investigación", 18 February, pp. 1B, 4B

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**MEDIA ATTENTION** (continued)

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**Magazines** (including print and web-based; details and reprints available upon request)

<i>National Geographic</i>	Discovery.com
<i>BBC Wildlife Magazine</i>	CBC News
<i>Current Biology</i>	<i>New Scientist</i>
<i>Natural History</i>	<i>Science News</i>
<i>Ich Tu Was!</i> (German children's nature magazine)	<i>Smithsonian Magazine</i>
Physorg.com	<i>The Null Hypothesis</i>
MSNBC.com	WonderQuest ( <i>USA Today</i> )
<i>SpektrumDirekt</i>	<i>Photonics Spectra</i>
Science Online	<i>Nature Australia</i>
LiveScience	<i>Canadian Wildlife</i>
<i>California Monthly</i>	<i>Ranger Rick</i>
TUNZA	<i>YES Mag</i> (Canada's science magazine for kids)
<i>Nature News</i>	Grist.com
<i>Audubon</i>	BoingBoing.net