

R. Craig Stillwell

Postdoctoral Excellence in Research and
Teaching Fellow
Department of Ecology and Evolutionary Biology
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Education

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| 1999 | B.S. Summa Cum Laude (Biology), Campbellsville University. |
| 2007 | Ph.D. Entomology, University of Kentucky.
Dissertation title: The evolutionary ecology of body size and sexual size dimorphism in two seed-feeding beetles. |

Research Experience

University of Kentucky

- Winter 2005: Participated in the Organization for Tropical Studies (OTS) course, *Tropical Biology: An Ecological Approach*.
- Summer 1999: Kentucky Young Summer Scientist program – Studied the interactions between two insect herbivore feeding guilds and the implications of those interactions for the growth and productivity of black locust trees.

Academic Positions

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| 2007 – pres. | National Institutes of Health. Postdoctoral Excellence in Research and Teaching (PERT) Fellow, Department of Ecology and Evolutionary Biology, University of Arizona. |
| 2001 – 2007 | Graduate Research Assistant, Department of Entomology, University of Kentucky. |
| 2005 | Teaching Assistant, Department of Biology, University of Kentucky. |

Grants and Support Funding

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| 2007-2010. | National Institutes of Health. Postdoctoral Excellence in Research and Teaching Fellowship, Center for Insect Science, University of Arizona. \$117,768 (salary) + \$22,500 (research support) |
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- 2005 National Science Foundation, Division of Environmental Biology. Interacting sources of selection and geographic variation in body size of a seed-feeding beetle. Charles W. Fox (PI) and R. Craig Stillwell (graduate student). Not funded.
- 2005 John L. Clarke and Fred W. Knapp Student Travel Award. R. Craig Stillwell. \$150.
- 2005 University of Kentucky, Graduate Student Travel Support. R. Craig Stillwell. \$1000.
- 2004 University of Kentucky, Dissertation Enhancement Award. Rapid evolution of a latitudinal size cline in the seed beetle *Stator limbatus*. R. Craig Stillwell. \$2850.
- 2004 University of Kentucky, Graduate Student Travel Support. R. Craig Stillwell. \$400.
- 2003 University of Kentucky, Commonwealth Research Award. R. Craig Stillwell. \$1000.
- 2003 University of Kentucky, Graduate Student Research Support. R. Craig Stillwell. \$400.

Publications

Manuscripts in press

Stillwell, R. C., J. Moya-Laraño and C. W. Fox. Selection does not favor large body size at lower temperature in a seed-feeding beetle. *Evolution*.

Peer Reviewed Manuscripts

- Stillwell, R. C.**, G. E. Morse and C. W. Fox. 2007. Geographic variation in body size and sexual size dimorphism of a seed-feeding beetle. *The American Naturalist* 170:358-369.
- Fox, C. W., **R. C. Stillwell** and J. Moya-Laraño. 2007. Variation in selection and the evolution of sexual size dimorphism in two seed-feeding beetles. *In* D. F. Fairbairn, W. U. Blanckenhorn and T. Szekely (eds.) *Sex, size and gender roles: Evolutionary studies of sexual size dimorphism*.
- Stillwell, R. C.**, W. G. Wallin, L. J. Hitchcock and C. W. Fox. 2007. Phenotypic plasticity in a complex world: Interactive effects of food and temperature on fitness components of a seed beetle. *Oecologia* 153:309-321.
- Stillwell, R. C.** and C. W. Fox. 2007. Environmental effects on sexual size dimorphism of a seed-feeding beetle. *Oecologia* 153:273-280.
- Blanckenhorn, W. U., **R. C. Stillwell**, K. A. Young, C. W. Fox and K. G. Ashton. 2006. When Rensch meets Bergmann: Does sexual size dimorphism change systematically with latitude? *Evolution* 60:2004-2011.
- Fox, C. W., **R. C. Stillwell**, W. G. Wallin and L. J. Hitchcock. 2006. Temperature and host species affect nuptial gift size in a seed-feeding beetle. *Functional Ecology* 20:1003-1011.
- Fox, C. W., K. L. Scheibly, W. G. Wallin, L. J. Hitchcock, **R. C. Stillwell** and Benjamin P. Smith. 2006. The genetic architecture of lifespan and mortality rates: Gender and species differences in inbreeding load of two seed-feeding beetles. *Genetics* 174:763-773.
- Stillwell, R. C.** and C. W. Fox. 2005. Complex patterns of phenotypic plasticity: Interactive effects of temperature during rearing and oviposition. *Ecology* 86:924-934.
- Fox, C. W., **R. C. Stillwell**, A. R. Amarillo-S, M. E. Czesak and F. J. Messina. 2004. Genetic architecture of population differences in oviposition behavior of the seed beetle *Callosobruchus maculatus*. *Journal of Evolutionary Biology* 17:1141-1151.

Invited Seminars

- Stillwell, R. C.** The evolutionary ecology of body size and sexual size dimorphism in two seed-feeding beetles. 2008. Department of Integrated Natural Sciences, Arizona State University (West campus).
- Stillwell, R. C.** The evolutionary ecology of body size and sexual size dimorphism in two seed-feeding beetles. 2007. Department of Biology Seminar, Southern Utah University.
- Stillwell, R. C.** The evolutionary ecology of body size in seed-feeding beetles. 2006. Department of Biology Seminar, Campbellsville University.

Presented Papers

- Stillwell, R. C.,** J. Moya-Laraño and C. W. Fox. Selection does not favor larger body size at lower temperature in a seed-feeding beetle. 2008. Annual meeting of the Society for the Study of Evolution. Minneapolis, MN.
- Stillwell, R. C.** The evolutionary ecology of body size and size dimorphism in two species of seed-feeding beetles. 2007. Department of Ecology and Evolutionary Biology, University of Arizona.
- Stillwell, R. C.** and C. W. Fox. Geographic variation in body size and sexual size dimorphism of a seed-feeding beetle. 2007. Spring Research Symposium. Center for Ecology, Evolution and Behavior, University of Kentucky.
- Stillwell, R. C.,** and C. W. Fox. Environmental effects on sexual size dimorphism of a seed-feeding beetle. 2006. 2nd Place Ph.D. Student Paper Competition, 19th Annual Forum of the Ohio Valley Entomological Association. Newport, KY.
- Stillwell, R. C.,** W. G. Wallin, L. J. Hitchcock and C. W. Fox. Phenotypic plasticity in a complex world: The interactive effects of rearing host and temperature. 2006. Annual meeting of the Ecological Society of America. Memphis, TN.
- Stillwell, R. C.,** and C. W. Fox. Environmental effects on sexual size dimorphism of a seed-feeding beetle. 2006. Spring Research Symposium. Center for Ecology, Evolution and Behavior, University of Kentucky.
- Stillwell, R. C.,** W. G. Wallin, L. J. Hitchcock and C. W. Fox. Phenotypic plasticity in a complex world: The interactive effects of rearing host and temperature. 2006. Ecolunch, Department of Biology, University of Kentucky.
- Stillwell, R. C.** An ecological approach to tropical biology. 2005. Ecolunch, Department of Biology, University of Kentucky.
- Stillwell, R. C.,** G. E. Morse and C. W. Fox. Geographic variation in body size and sexual size dimorphism of the seed beetle *Stator limbatus*. 2005. International workshop on the evolution of sexual size dimorphism. Monte Verità, Locarno, Switzerland.
- Stillwell, R. C.,** G. E. Morse and C. W. Fox. Ecological factors producing geographic variation in body size of the seed beetle *Stator limbatus*. 2005. Annual meeting of the Ecological Society of America. Montréal, Canada.
- Stillwell, R. C.,** G. E. Morse and C. W. Fox. Ecological factors producing geographic variation in body size of the seed beetle *Stator limbatus*. 2005. The Organization for Tropical Studies. Palo Verde Biological Station, Costa Rica.
- Stillwell, R. C.** and C. W. Fox. Geographic variation in body size and sexual size dimorphism of the seed beetle *Stator limbatus*. 2005. Spring Research Symposium. Center for Ecology, Evolution and Behavior, University of Kentucky.
- Stillwell, R. C.** and C. W. Fox. The adaptive significance of temperature acclimation in the seed beetle *Stator limbatus*. 2004. 1st Place Ph.D. Student Paper Competition, 17th Annual Forum of the Ohio Valley Entomological Association. Hanover, IN.

- Stillwell, R. C.** and C. W. Fox. Genetic vs. non-genetic responses of body size to temperature in a seed beetle: Adaptation to local temperature? 2004. Ecolunch, Department of Biology, University of Kentucky.
- Stillwell, R. C.** and C. W. Fox. Genetic vs. non-genetic responses of body size to temperature in a seed beetle: Adaptation to local temperature? 2004. Annual meeting of the Ecological Society of America. Portland, OR.
- Stillwell, R. C.** and C. W. Fox. Thermal evolution of growth and life history traits in a seed beetle: Phenotypic plasticity and the effect of temperature during rearing and oviposition. 2003. Annual meeting of the Entomological Society of America. Cincinnati, OH.
- Stillwell, R. C.** and C. W. Fox. Thermal evolution of life history traits: The effect of temperature during development and egg laying. 2003. Annual meeting of the Ecological Society of America. Savannah, GA.
- Stillwell, R. C.** and C. W. Fox. Thermal evolution of life history traits: The effect of temperature during development and egg laying. 2003. Spring Research Symposium. Center for Ecology, Evolution and Behavior, University of Kentucky.
- Stillwell, R. C.** and C. W. Fox. Temperature effects on life history traits of the desert seed beetle *Stator limbatus*. 2002. Ecolunch, Department of Biology, University of Kentucky.
- Stillwell, R. C.** and C. W. Fox. The role of temperature in life history evolution of the seed beetle *Stator limbatus*. 2002. Department of Entomology Proposal Seminar, University of Kentucky.
- Stillwell, R. C.** and L. K. Rieske. Ecological interactions between herbivore feeding guilds: Implications for plant productivity. 2001. Sigma Zeta National Convention. Campbellsville, KY.
- Stillwell, R. C.** and L. K. Rieske. Ecological interactions between herbivore feeding guilds: Implications for plant productivity. 1999. Department of Biology Seminar, Campbellsville University.

Professional Services

Manuscript Reviews for:

- Behavioral Ecology
- Bulletin of Entomological Research
- Ecography
- Ecology
- Ecological Entomology
- Entomologia Experimentalis et Applicata
- Entomological Science
- European Journal of Entomology
- Evolution
- Evolutionary Ecology
- Evolutionary Ecology Research
- Functional Ecology
- Genetica
- Journal of Insect Science
- Journal of Molluscan Studies
- Oecologia
- Zoology

Proposal Reviews for:

- National Science Foundation (Population and Evolutionary Processes)

University Services

University of Kentucky

- 2007. Faculty Liaison of Harrison Garman Entomology Club
- 2006. Coordinator for the Ecolunch Seminar Series
- 2005-2007. Member of the Seminar Committee
- 2003-2004. Vice President of Harrison Garman Entomology Club
- 2003-2004. Coordinator for the Evolutionary Ecology Reading Group
- 2001-2004. Member of the Blood Donation Committee
- 2003. Volunteer at the annual Insect Walk at Raven Run Nature Sanctuary

Campbellsville University

- 1996. Participant in Supplies Over Seas (SOS) – A humanitarian aid program that provides unused medical supplies to underdeveloped countries

Teaching Experience

2008 Biology 105: Environmental Biology (Full Instructor)
2006 Biology 452: Laboratory in Ecology (Guest Lecturer)
2005 Biology 304: Principles of Genetics (Teaching Assistant)
2004 Biology 452: Laboratory in Ecology (Guest Lecturer)
2003 Biology 452: Laboratory in Ecology (Guest Lecturer)

Memberships

- American Association for the Advancement of Science
- American Society of Naturalists
- Entomological Society of America
- Ecological Society of America
- Gamma Sigma Delta Honor Society of Agriculture
- Ohio Valley Entomological Association
- Society for the Study of Evolution
- Sigma Zeta Honor Society of Science and Mathematics

Scholarships

- University of Washington Summer Institute in Statistical Genetics Tuition & Travel Scholarship, 2006
- Louis F. Ison Memorial Scholarship, 2005-2006
- Campbellsville University Academic Scholarship, 1995-1999
- Larue-Hardin Medical Auxiliary Scholarship, 1995
- Nolin Rural Electric Cooperative Scholarship, 1995

Honors and Awards

University of Kentucky

- Gamma Sigma Delta Honor Society of Agriculture Outstanding Ph.D. Student Award, 2007

Campbellsville University

- Campbellsville University Biology Award
- Graduated Summa Cum Laude, 3.96 GPA
- Dean's list, 1995-1999