

## R. Craig Stillwell

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### Education

- 1999            B.S. Summa Cum Laude (Biology), Campbellsville University.
- 2001 – pres    PhD student in Entomology, University of Kentucky. Passed Qualifying Examination Fall 2003. Dissertation: “The evolutionary ecology of body size in seed beetles”.

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### Research Experience

#### University of Kentucky

- Winter 2005: Participated in the Organization for Tropical Studies (OTS) course, *Tropical Biology: An Ecological Approach*.
- Spring 2002: Began doctoral research on the evolutionary ecology of body size in insects.
- 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.

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### Academic Positions

- 2001 – pres    Graduate Research Assistant, Department of Entomology, University of Kentucky.
- 2005            Teaching Assistant, Department of Biology, University of Kentucky.

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### Grants and Support Funding

- 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

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### *Manuscripts in press*

- Stillwell, R. C.**, G. E. Morse and C. W. Fox. Geographic variation in body size and sexual size dimorphism of a seed-feeding beetle. *The American Naturalist* *in press*.
- Fox, C. W., **R. C. Stillwell** and J. Moya-Laraño. Variation in selection and the evolution of sexual size dimorphism in two seed-feeding beetles. *In press* for D. F. Fairbairn, W. U. Blanckenhorn and T. Székely (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. Phenotypic plasticity in a complex world: Interactive effects of food and temperature on fitness components of a seed beetle. *Oecologia* *in press*.
- Stillwell, R. C.** and C. W. Fox. Environmental effects on sexual size dimorphism of a seed-feeding beetle. *Oecologia* *in press*.

### *Peer Reviewed Manuscripts*

- 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.

## Presented Papers

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- Stillwell, R. C.** The evolutionary ecology of body size in seed-feeding beetles. 2006. Invited speaker. Department of Biology Seminar, Campbellsville University.
- 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

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### Manuscript Reviews for:

- Behavioral Ecology

- Ecological Entomology
- Entomologia Experimentalis et Applicata
- Entomological Science
- European Journal of Entomology
- Evolutionary Ecology
- Functional Ecology
- Genetica
- Oecologia

## University Services

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### University of Kentucky

- 2007-pres. Faculty Liaison of Harrison Garman Entomology Club
- 2006. Coordinator for the Ecolunch Seminar Series
- 2005-pres. 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

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- 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

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- 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

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- 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**

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### 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