

R. Craig Stillwell

Postdoctoral Excellence in Research and
Teaching Fellow
Department of Ecology and Evolutionary Biology
University of Arizona
1041 East Lowell Street
Tucson, AZ 85721

Lab Phone: 520-626-8455
Home Phone: 520-289-3885
E-mail: rcstill@email.arizona.edu



Education

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

Academic Positions

- 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

- 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).
- 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 submitted

Fox, C. W. and **R. C. Stillwell**. Inbreeding load for adult lifespan varies among environments in the seed-feeding beetle, *Callosobruchus maculatus*.

Manuscripts in press

Stillwell, R. C. and C. W. Fox. Geographic variation in body size, sexual size dimorphism and fitness components of a seed beetle: local adaptation vs. phenotypic plasticity. *Under minor revision for Oikos*.

Peer Reviewed Manuscripts

- Stillwell, R. C.**, J. Moya-Laraño and C. W. Fox. 2008. Selection does not favor large body size at lower temperature in a seed-feeding beetle. *Evolution* 62:2534-2544.
- 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.
- 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. Smarillo-Suarez, 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.

Book Chapters

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. Székely (eds.) *Sex, size and gender roles: Evolutionary studies of sexual size dimorphism*.

Invited Seminars

- 2008 Zoological Museum, University of Zurich, Switzerland.
- 2008 Department of Integrated Natural Sciences, Arizona State University (West campus).
- 2007 Department of Biology Seminar, Southern Utah University.
- 2006 Department of Biology Seminar, Campbellsville University.

Presented Papers

- 2008 Annual meeting of the Society for the Study of Evolution. Minneapolis, MN.
- 2007 Department of Ecology and Evolutionary Biology, University of Arizona.
- 2007 Spring Research Symposium. Center for Ecology, Evolution and Behavior, University of Kentucky.
- 2006 2nd Place Ph.D. Student Paper Competition, 19th Annual Forum of the Ohio Valley Entomological Association. Newport, KY.
- 2006 Annual meeting of the Ecological Society of America. Memphis, TN.
- 2006 Spring Research Symposium. Center for Ecology, Evolution and Behavior, University of Kentucky.
- 2006 Ecolunch, Department of Biology, University of Kentucky.
- 2005 Ecolunch, Department of Biology, University of Kentucky.
- 2005 International workshop on the evolution of sexual size dimorphism. Monte Verità, Locarno, Switzerland.
- 2005 Annual meeting of the Ecological Society of America. Montréal, Canada.
- 2005 The Organization for Tropical Studies. Palo Verde Biological Station, Costa Rica.
- 2005 Spring Research Symposium. Center for Ecology, Evolution and Behavior, University of Kentucky.
- 2004 1st Place Ph.D. Student Paper Competition, 17th Annual Forum of the Ohio Valley Entomological Association. Hanover, IN.
- 2004 Ecolunch, Department of Biology, University of Kentucky.
- 2004 Annual meeting of the Ecological Society of America. Portland, OR.
- 2003 Annual meeting of the Entomological Society of America. Cincinnati, OH.
- 2003 Annual meeting of the Ecological Society of America. Savannah, GA.
- 2003 Spring Research Symposium. Center for Ecology, Evolution and Behavior, University of Kentucky.
- 2002 Ecolunch, Department of Biology, University of Kentucky.
- 2002 Department of Entomology Proposal Seminar, University of Kentucky.
- 2001 Sigma Zeta National Convention. Campbellsville, KY.
- 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)

Student Mentoring

Undergraduates

Lisa Hitchcock
Denise Johnson
Oriaku Njoku
Scott Serdoz
Kim Carrico
Jennifer Smith
Nathan Correll
Courtney Elkins

Academic Advisors and Collaborators

Graduate Dissertation Committee:

Charles W. Fox, Chair of Committee, Department of Entomology, University of Kentucky.
John J. Obrycki, Department of Entomology, University of Kentucky.
Daniel A. Potter, Department of Entomology, University of Kentucky.
Philip H. Crowley, Department of Biology, University of Kentucky.
David F. Westneat, Department of Biology, University of Kentucky.
David H. Wise, Department of Biological Sciences, University of Illinois at Chicago.

Post-doctoral Advisor:

Goggy Davidowitz, Department of Ecology and Evolutionary Biology, University of Arizona.

Current and Past Collaborators:

Wolf U. Blanckenhorn, Zoological Museum, University of Zurich, Switzerland.
Tiit Teder, University of Tartu, Estonia.
Jordi Moya-Laraño. Departamento de Ecología Funcional y Evolutiva, Estación Experimental de Zonas Áridas, Consejo Superior de Investigaciones Científicas, Spain.
Geoffrey E. Morse, Department of Biology, University of San Diego.
Kyle A. Young, EAWAG Limnological Research Center.
Kyle G. Ashton. Biological Sciences, University of California at San Diego.

Angela R. Amarillo-Suarez, Department of Environment and Territory, Pontificia Universidad Javeriana, Colombia.

Teaching Experience

- 2008 Biology 105: Environmental Biology (Instructor). Pima Community College, Tucson, AZ.
- 2006 Biology 452: Laboratory in Ecology (Guest Lecturer). University of Kentucky, Lexington, KY.
- 2005 Biology 304: Principles of Genetics (Teaching Assistant). University of Kentucky, Lexington, KY.
- 2004 Biology 452: Laboratory in Ecology (Guest Lecturer). University of Kentucky, Lexington, KY.
- 2003 Biology 452: Laboratory in Ecology (Guest Lecturer). University of Kentucky, Lexington, KY.

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

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