

Charles Anthony Price

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Work Address:

Department of Biology
Georgia Institute of Technology
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Current Position

Post Doctoral Fellow, Weitz Lab, Department of Biology, Georgia Institute of Technology.

Education

Doctor of Philosophy (2006), Ecology and Evolutionary Biology, University of Arizona.

Bachelor of Science (2001), Cum Laude, Biology, double concentration: Ecology (honors), Biochemistry. University of Tennessee, Knoxville.

Honors and Awards

- Murray F. Buell Award for Excellence in Ecology, Ecological Society of America 2007
- Ton Damman Award, Vegetation Section of the Ecological Society of America and the North American Section of the International Association of Vegetation Science, 2007
- Co-chair, Gordon-Kenan Graduate Research Seminar in conjunction with the Gordon Research Conference – A Metabolic Basis for Ecology, 2008 (\$5000)
- William G. McGinnies Scholarship in Arid Lands Studies, University of Arizona, 2005 (\$1000)
- Forrest Shreve Award, Ecological Society of America, 2004 (\$2000)
- Honorable Mention, National Science Foundation Graduate Research Fellowship 2003
- University of Arizona Research Training Grant 2002, to train undergraduates in ecological research techniques (\$800)
- Most Outstanding Senior 2001, Dept. of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, selected by department faculty

Publications

Price, C.A., B.J. Enquist and V.M. Savage. A general model for allometric covariation in botanical form and function. (2007) **Proceedings of the National Academy of Sciences** 104 (32): 13204-13209.

Price, C.A. and B.J. Enquist Scaling of mass and morphology in Dicotyledonous leaves: an extension of the WBE model. (2007) **Ecology** 88(5): 1132–1141.

Enquist, B.J., A. J. Kerkhoff, M. McCarthy, S. Stark, N. Swenson and C.A. Price. A General Allometric Plant Production Model: Integrating Leaf Traits, Whole-plant Allocation and Metabolic Efficiency. (2007) **Nature** 449:218-222.

Enquist, B.J., A.P. Allen, J.H. Brown, J.F. Gillooly, A. Kerkhoff, K.J. Niklas, C.A. Price, G.B. West (2007) Reply to Reich *et al.* 2006 – Does the exception prove the rule? **Nature** 445:E9-E10.

Price, C.A. and B.J. Enquist (2006) Scaling of mass and morphology in plants with minimal branching: an extension of the WBE model. **Functional Ecology** 20:11-20.

Price, C.A. and J.F. Weltzin (2003) Managing non-native plant populations through intensive community restoration in Cades Cove, Great Smoky Mountains National Park, U.S.A.. **Restoration Ecology** 11:351-358.

Price, C.A. and J. F. Weltzin (2000) The efficacy of prairie restoration in Cades Cove, Great Smoky Mountain National Park. Research report to Great Smoky Mountains National Park Vegetation Management Division.

Manuscripts in review or in preparation

Price, C.A. and B.J. Enquist. Community allometry: life history tradeoffs revealed by allometric variation across a resource gradient.

Price, C.A., A.J. Kerkhoff and B.J. Enquist Growth form, tissue density and the allometry of plant water and dry matter content.

Swenson, N.G., B.J. Enquist, J Pither, A.J. Kerkhoff, M. D. Weiser, W.F. Fagen, A. Moles, C.A. Price, J.C. Stegen. (in review) The diversity and distribution of plant function across the New World.

Price, C.A., and J.S. Weitz Is the ratio of height to canopy diameter invariant with size across perennial land plants?

Price, C.A., E.P. White, J.S. Weitz and K. Ogle. Evaluating scaling theories in biology.

Price, C.A. W.R. Turner, and B.J. Enquist. Constancy in community measures through time in a tropical forest plot.

Press mentioning my work

Whitfield, J. 2006. The cost of leafing. **Nature** 444:539-541.

Ahmed, F. 2007. Geometry of vascular systems governs plant forms. **PNAS** 104:12951-12952.

Ton Damman Award: <http://biology.memphis.edu/esa/07tdrec.htm>

Professional Experience

- Post Doctoral Fellow, 2/2007-present, Weitz Lab, Georgia Institute of Technology
- Graduate Teaching Assistant, 2001 – 2006, Department of Ecology and Evolutionary Biology, University of Arizona. Assisted in the instruction of the following courses: Ecology (4), Evolution, Animal Sexual Behavior, Environmental Biology, Systematic Botany (2), Native Plant Taxonomy.
- Graduate representative to faculty 2005-2006, Department of Ecology and Evolutionary Biology, University of Arizona.
- Prospective graduate student visitation coordinator 2004-2006 (3 yrs) Department of Ecology and Evolutionary Biology, University of Arizona.
- Governors School for the Sciences, Tennessee, Ecology Teaching Assistant, Summers 2000 and 2001. Assisted in the instruction of high achieving high schools students from across the state.
- Smoky Mountain National Park, contracted to assess the efficacy of the Park Services restoration efforts in Cades Cove grass/forb communities, Summer/Fall 2000.
- Student's Promoting Environmental Action in Knoxville (SPEAK), President 1999 – 2000 (active member since 1998) Created an environment/ecology lecture series and organized over twenty community service workdays including cleanups and invasive plant removals from natural areas (U of Tennessee).
- UTK Chancellor's Committee for the Environment, 1999 – 2001, University of Tennessee, one of two students selected by the Chancellor.
- Team Vols, Leadership Board, Environment Program Manager 1999-2000, coordinated volunteer activities for university sponsored volunteer organization (U of Tennessee).
- Undergraduate research, *Drosophila* genetics lab (1yr).
- Undergraduate research, plant ecology lab (1yr), investigating the effects of exotic plants (invasive and non-invasive) on grassland communities.

Presentations

- Invited talk, Department of Biology, Virginia Institute of Technology, Fall 2007.
- Lecture, Ecological Society of America Conference, Summer 2007.
- Invited talk, Department of Biology, Utah State University, Spring 2007.
- Lecture, Ecological Society of America Conference, Summer 2006.
- Poster presentation, Gordon Conference, Metabolic basis for ecology, Summer 2006.
- Lecture, ARC-NZ Research Network for Vegetation Function, Sydney, AU. Summer 2005.
- Lecture, Ecological Society of America Conference, Summer 2005.

- Departmental Seminar, Ecology and Evolutionary Biology, Univ. of Arizona, Spring 2005.
- Poster presentation, Southwestern Association of Biologists Conference, Fall 2004.
- Poster presentation, Gordon Conference, Metabolic basis for ecology, Summer 2004.
- Departmental Seminar, Ecology and Evolutionary Biology, Univ. of Arizona, Spring 2004.
- Lecture, Ecological Society of America Conference, Summer 2004.
- Poster presentation, Southwestern Association of Biologists Conference, Fall 2004.
- Departmental Seminar, Ecology and Evolutionary Biology, Univ. of Arizona, Spring 2003.
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- Lecture, Southwestern Association of Biologists Conference, Fall 2003.
- Poster presentation, Ecological Society of America Conference, Summer 2002.
- Poster presentation, Southwestern Association of Biologists Conference, Fall 2002.
- Departmental Seminar, Ecology and Evolutionary Biology, Univ. of Arizona, Fall 2001.
- Poster presentation, Association of Southeastern Biologists Conference, Spring 2001.
- Poster presentation, Southern Appalachian Man and the Biosphere Conference, Fall 2000.

Reviewer for:

Proceedings of the National Academy of Sciences
 Proceedings of the Royal Society B
 Functional Ecology
 New Phytologist
 Journal of Theoretical Biology
 International Journal of Plant Sciences
 Ecological Research
 Annales Botanici Fennici
 Australian Journal of Botany
 Western North American Naturalist
 Biology Letters

Guest Lecturer:

Environmental Biology (Spring 2005, 2006)
 Plant Form and Function (Spring 2005)
 Math Models in Biology (Fall 2007)