

Curriculum Vitae
Wendy A. Marussich, Ph.D.
PERT Postdoctoral Fellow in Insect Science
Department of Ecology and Evolutionary Biology
University of Arizona
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Education

Doctor of Philosophy – August 1998-August 2004
School of Life Sciences, Arizona State University, Tempe, AZ
Advisor: Stanley H. Faeth
Dissertation Title: The costs and benefits of myrmecochory between ants and *Datura*
in the Sonoran Desert

Bachelor of Arts – August 1994-May 1998
Department of Biology, Vassar College, Poughkeepsie, NY
Advisor: Robert S. Fritz
Thesis Title: Tri-trophic Interactions: Does plant taxon affect beetle susceptibility to predators?

Foreign Study Programs

OTS 99-1: Tropical Biology: An Ecological Approach
Organization for Tropical Studies, Costa Rica
January 1999-March 1999

Tropical Rainforest Ecology
The School for Field Studies, Centre for Rainforest Studies, Yungaburra, Australia
September 1996-December 1996

Research Positions

Research Associate, Postdoctoral Excellence in Research and Teaching (PERT) Fellow, Center for Insect Science and Department of Ecology and Evolutionary Biology, University of Arizona, Tucson, AZ, August 2004-August 2007 (Faculty Mentor: Carlos A. Machado)

- evolutionary ecology and genetics of pollinating and non-pollinating fig wasps

Research Assistant, Central Arizona / Phoenix Long-Term Ecological Research (CAP-LTER), Arizona State University, Tempe, AZ, January 2001-July 2004

- responsible for designing, implementing, and maintaining a long-term multi-site experiment investigating trophic dynamics in urban and desert systems

Research Assistant, Department of Biology, Vassar College, Poughkeepsie, NY, 1997-1998

- discriminant function analyses of gall distributions on willows

Research Fellow, Undergraduate Research Summer Institute (URSI), Vassar College, Poughkeepsie, NY, Summer 1996, 1997

- interactions between herbivores and their predators on willows and their hybrids

Teaching Positions

Adjunct Faculty, Pima Community College, West Campus, Tucson, AZ. Fall 2005.

- Environmental Biology Lab and Lecture for Non-Majors (1 semester)

Instructor, Central Arizona / Phoenix Long-Term Ecological Research, Arizona State University, Tempe, AZ, Summer 2000, (Guest lecturer and consultant 2001, 2002, 2003, 2004)

- Ecology Explorers Summer Internship for K-12 Teachers (Arthropods)

Teaching Associate, Arizona State University, 1998-2000

- Introductory Biology Laboratory for Non-Majors (5 semesters)
- Ecology Laboratory (2 semesters)

Teaching Assistant, Department of Biology, Vassar College, Poughkeepsie, NY, Spring 1997

- Plant Physiology Laboratory (1 semester)

Fellowships and Awards

Postdoctoral Excellence in Research and Training (PERT) Fellowship, Center for Insect Science, University of Arizona (funded by National Institutes of Health, August 2004-August 2007)

School of Life Sciences Travel Award, Arizona State University, Summer 2003

Graduate and Professional Students' Association (GPSA) Travel Award, Arizona State University, Summer 2003

Best Poster, Center for Insect Science Tenth Annual Hexapodium Poster Contest, University of Arizona, Spring 2003

Integrative Graduate Education Research and Training (IGERT) Associateship in Urban Ecology, Arizona State University, 2001-2002, 2002-2003

Biology Graduate Student Travel Award, Arizona State University, Summer 2002

Graduate College Student Travel Award, Arizona State University, Summer 2002

Biology Graduate Student Travel Award, Arizona State University, Summer 2001

Graduate College Student Travel Award, Arizona State University, Summer 2001

Graduate Academic Scholarship, Arizona State University, 1998-1999

Kate Roberts Prize for Excellence in Biology, Vassar College, May 1998

Fellow, Undergraduate Research Summer Institute, Vassar College, Summer 1996, 1997

Research Grants

Postdoctoral Excellence in Research and Training (PERT) Fellowship, Center for Insect Science, University of Arizona, August 2004-August 2007

Supplemental Research Award, Smithsonian Tropical Research Institute, Barro Colorado Island, Panama, Spring 2005.

Center for Insect Science Graduate Student Research Support Award, University of Arizona, Spring 2002

Integrative Graduate Education Research and Training (IGERT) Research Funds, Arizona State University, Fall 2001, Fall 2002

Sigma Xi Grants-In-Aid of Research, Spring 2001

Biology Graduate Student Research Award, Arizona State University, Fall 1999

Publications

- Marussich, W.A. and C.A. Machado. 2007 (In revision). Host-specificity and coevolution among pollinating and non-pollinating New World fig wasps. *Molecular Ecology*.
- Marussich, W.A. 2006 (In press). Testing myrmecochory from the ant's perspective: The effects of *Datura wrightii* and *D. discolor* on queen survival and brood production in *Pogonomyrmex californicus*. *Insectes Sociaux*.
- Jenerette, G.D., W. Wu, S. Goldsmith, W.A. Marussich and W.J. Roach. 2006. Contrasting water footprints of cities in China and the United States. *Ecological Economics* 57(3): 346-358.
- Jenerette, G.D., Marussich W.A. and J.P. Newell. 2006. Linking ecological footprints with ecosystem valuation in the provisioning of urban freshwater. *Ecological Economics* 59(1): 38-47.
- Faeth S.H., P.S. Warren, E. Shochat, and W.A. Marussich. 2005. Trophic dynamics in urban communities. *Bioscience* 55(5): 399-407.

Manuscripts in Preparation

- Marussich, W.A. and S.H. Faeth. Trophic dynamics in urban and desert ecosystems: arthropod communities on brittlebush (*Encelia farinosa*). *In preparation for Ecology Letters*.
- Marussich, W.A. Conflicting interests: Defense strategies in *Datura* seeds prevent consumption by *Pogonomyrmex californicus* ants. *In preparation for Ecological Entomology*.
- Marussich, W.A. The effects of five species of ants on the survival and germination of *Datura wrightii* and *D. discolor* seeds. *In preparation for Journal of Ecology*.
- Marussich, W.A. The fatty acid composition of seeds and elaiosomes of three species of *Datura* and their relative attractiveness to two species of desert seed harvester ants. *In preparation for Journal of Chemical Ecology*.
- Marussich, W.A. and C. A. Machado. Phylogenetic and cophylogenetic analyses of pollinating and non-pollinating fig wasps from New World free-standing figs (Pharmacosyceae). *In preparation for Molecular Ecology*.

National / International Presentations

- Marussich, W.A. and C.A. Machado. 2006, July. Evolutionary and ecological perspectives on species specificity, host switching, and coevolution among New World pollinating and non-pollinating fig wasps. Seventh International Fig Symposium, Xishuangbanna Tropical Botanical Garden, China.
- Marussich, W.A. and C. A. Machado. 2006, June. Species specificity, host switching, and coevolution among pollinating and non-pollinating fig wasps. Annual Meeting of the Society for the Study of Evolution, Stony Brook, NY.
- Faeth, S.H. and W.A. Marussich. 2006, January. Trophic dynamics in urban communities. Ecological Society of America International Meeting, Ecology in an Era of Globalization: Challenges and Opportunities for Environmental Scientists in the Americas, Merida, Mexico.
- Marussich, W.A. and C.A. Machado. 2005, June. The evolution of New World fig wasp communities. Annual Meeting of the Society for the Study of Evolution, Fairbanks, AK.
- Marussich, W.A. 2005. Seed dispersal by ants in the Sonoran Desert and an introduction to fig wasps. BAMBI Seminar Series, Smithsonian Tropical Research Institute, Panama.

- Marussich, W.A. 2004, August. Fatty acid composition of seeds and elaiosomes in three species of *Datura*. 89th Annual Meeting of Ecological Society of America. Portland, OR.
- Marussich, W.A. and S.H. Faeth. 2003, September. Comparing trophic dynamics in urban and desert ecosystems using arthropod communities on brittlebush (*Encelia farinosa*). The 2003 LTER All-Scientists Meeting, Seattle, WA.
- Marussich, W.A. 2003, September. Ecological Footprints: Case Studies of 2 Interdisciplinary Collaborative Research Experiences. The 2003 LTER All-Scientists Meeting, Seattle, WA.
- Marussich, W.A. 2003, August. The effects of five species of desert ants on the germination of *Datura wrightii*. 88th Annual Meeting of Ecological Society of America. Savannah, GA.
- Marussich, W.A. 2002, August. Examining the mutualistic nature of the relationship between *Datura* seeds and *Pogonomyrmex californicus* ants. 87th Annual Meeting of the Ecological Society of America. Tucson, AZ.
- Marussich, W.A. 2002, August. Are *Datura* ants and *Pogonomyrmex californicus* ants mutualists? XIV International Congress of the International Union for the Study of Social Insects (IUSSI). Sapporo, Japan.
- Marussich, W.A. 2001, August. Do ants benefit from a purported seed dispersal mutualism with *Datura wrightii*? 86th Annual Meeting of the Ecological Society of America. Madison, WI.
- Marussich, W.A. 2000, October. Myrmecochory between *Pogonomyrmex californicus* and *Datura wrightii*: Do the ants benefit? Year 2000 Meeting of the North American Section of the International Union for the Study of Social Insects, Huntsville, AK.

Local Presentations

- Marussich, W.A. and S.H. Faeth. 2004, February. Understanding trophic dynamics in urban and desert ecosystems using arthropod communities on brittlebush (*Encelia farinosa*). Sixth Annual Poster Symposium, Central Arizona/Phoenix Long-Term Ecological Research, Arizona State University, Tempe, AZ.
- Marussich, W.A. 2003, December. Testing a mutualism: The relationship between ants and *Datura* spp. in the Sonoran Desert. Current Topics in Biology, Graduate Student Seminar Series, Arizona State University, Tempe, AZ.
- Marussich, W.A. 2003, October. Testing a mutualism: The relationship between ants and *Datura* spp. in the Sonoran Desert. University of Arizona Center for Insect Science Hexapodium, Boyce Thompson Arboretum, Superior AZ.
- Marussich, W.A. 2003, April. The effects of five species of desert ants on the germination of *Datura wrightii*. Tenth Annual Poster Hexapodium, Center for Insect Science, University of Arizona, Tucson, AZ.
- Marussich, W.A. 2003, February. The effects of 5 species of ants on the germination of *Datura wrightii*. Fourth Annual Earth, Life, and Social Science Graduate Research Symposium, Arizona State University, Tempe. AZ.
- Marussich, W.A. and S.H. Faeth. 2003, February. Trophic dynamics of urban and desert ecosystems: Arthropod communities on brittlebush (*Encelia farinosa*). Fifth Annual Poster Symposium, Central Arizona/Phoenix Long-Term Ecological Research, Arizona State University, Tempe, AZ.
- Marussich, W.A., S. H. Faeth, J. H. Fewell, and R. A. Johnson. 2002, April. Exploring the nature of the relationship between *Pogonomyrmex californicus* and *Datura*. Ninth Annual Poster Hexapodium, Center for Insect Science, University of Arizona, Tucson, AZ.

- Marussich, W.A., and S.H. Faeth. 2002, January. Trophic dynamics of urban and desert ecosystems: Arthropod communities on brittlebush (*Encelia farinosa*). Fourth Annual Poster Symposium, Central Arizona/Phoenix Long-Term Ecological Research, Arizona State University, Tempe, AZ.
- Jenerette, G.D., S. Goldsmith, W.A. Marussich, W.J. Roach, W. Wu,. 2002, January. Contrasting socio-ecological relationships between China and the United States: Water footprints for cities in two distinct cultures. Fourth Annual Poster Symposium, Central Arizona/Phoenix Long-Term Ecological Research, Arizona State University, Tempe, AZ.
- Marussich, W.A. 2001, April. Testing myrmecochory from the ant's point of view: Do the ants benefit? Eighth Annual Poster Hexapodium, Center for Insect Science, University of Arizona, Tucson, AZ.
- Marussich, W.A. 2001, February. Testing an ant-plant interaction from the ant's point of view: Do the ants really benefit? Second Annual Earth and Life Science Graduate Research Symposium, Arizona State University, Tempe, AZ.
- Marussich, W.A., J. MacHeffner, W.F. Fagan, S.H. Faeth. 2001, January. Urban Ecology: Population and Community Perspectives. Third Annual Poster Symposium, Central Arizona/Phoenix Long-Term Ecological Research, Arizona State University, Tempe, AZ.
- Jenerette, G.D., M. K. Gade, Luck, W.A. Marussich, W.J. Roach. 2001, January. The ecological footprint workshop: Creating an ecological and social sciences interface. Third Annual Poster Symposium, Central Arizona/Phoenix Long-Term Ecological Research, Arizona State University, Tempe, AZ.
- Marussich, W.A. 2000, June. An Introduction to Arthropods: The CAP LTER Summer 2000 Arthropod Internship. Ecology Explorers Workshop for K-12 Teachers, Center for Environmental Studies, Arizona State University, Tempe, AZ.
- Marussich, W.A. 1999, September. A field report from the Organization for Tropical Studies. Current Topics in Biology, Graduate Student Seminar Series, Arizona State University, Tempe, AZ.
- Marussich, W.A. 1999, January. Fire Ecology of Northern Arizona. Organization for Tropical Studies, Monteverde Cloud Forest Preserve, Monteverde, Costa Rica.
- Marussich, W.A. and R.S. Fritz. 1997, December. Tri-trophic Interactions: Does plant taxon affect beetle susceptibility to predators? Vassar College Faculty Research Colloquium on Senior Independent Research, Poughkeepsie, NY.
- Marussich, W.A. and R.S. Fritz. 1997, September. Tri-trophic Interactions: Does plant taxon affect beetle susceptibility to predators? Undergraduate Research Summer Institute Annual Poster Symposium, Vassar College, Poughkeepsie, NY.
- Bothwell, S.G., W.A. Marussich, and R.S. Fritz. 1996, September. Tri-trophic interactions of two beetle species on hybrid and parental willows. Undergraduate Research Summer Institute Annual Poster Symposium, Vassar College, Poughkeepsie, NY.

Service

Manuscript reviewer for *Symbiosis* and *Biotropica*

Mentor to a local minority high school student through a grant from the College of Science and UBRP program, University of Arizona, August 2006-present

I regularly answer questions posed by K-12 students on the "Dr. Biology, Ask-A-Biologist" website, Department of Life Sciences, Arizona State University, Fall 2000-present

Co-Chair, Research Committee and Executive Board Member, Commission on the Status of Women, Arizona State University, Fall 2002-Fall 2003
Liaison from Graduate Women's Association to the Commission on the Status of Women, Arizona State University, Fall 1999-Spring 2004
Founding Member, Graduate Women's Association, Arizona State University, 1999-2004
Organizing Committee, 2nd through 5th Annual Earth, Life, and Social Science Graduate Research Symposium (GELSS), Arizona State University, Fall 2000-Spring 2003
Graduate Programs Committee, Department of Biology, Arizona State University, 2001-2002
Treasurer, Graduate Scholars in Biology, Arizona State University, 2000-2001
Peer reviewer, Associated Students of Arizona State University, Graduate Student Research Grant Competition, 1999

Memberships

Society for the Study of Evolution
Ecological Society of America
International Union for the Study of Social Insects