Jennifer Lynn Apple

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EDUCATION

Ph.D. in Biology, University of Utah, Salt Lake City, Utah, May 2001.
Dissertation title: Consequences of resource environment for the interactions between ants, herbivores, and their host plants. Advisor: Donald H. Feener, Jr.

B.S. in Biology, University of Puget Sound, Tacoma, Washington, 1994. Graduated Summa Cum Laude with Honors in Biology

PROFESSIONAL EXPERIENCE

August 2007 – present	Assistant Professor, Department of Biology, SUNY Geneseo
June 2005 – August 2007	Postdoctoral research associate, Kansas State University Advisors: Anthony Joern and Samantha Wisely
August 2004 – May 2005	Visiting Assistant Professor, Biology Department, Willamette University
April 2002 – August 2004	Postdoctoral Researcher, Washington State University-Vancouver Advisor: John G. Bishop The formation and influence of spatially structured trophic interactions in primary succession
August 2000 – April 2002	Postdoctoral Fellow, Smithsonian Environmental Research Center, Edgewater, Maryland Advisor: Ilka C. Feller Interaction between biotic and abiotic stresses: fitness consequences for a wetland perennial

TEACHING EXPERIENCE

Spring 2008	Principles of Ecology (Biol 203), Ecology Lab (Biol 288), Molecular Ecology Seminar (Biol 380), Freshman Biol Lab (Biol 288); SUNY Geneseo
Fall 2007	Principles of Ecology (Biol 203), Ecology Lab (Biol 288, with Dr. Ray Spear), Freshman Biology Lab (Biol 188); SUNY Geneseo
Spring 2005	Visiting assistant professor: Principles of Biology lecture/lab (Biol 110), Willamette University
Fall 2004	Visiting assistant professor: Plant Ecology & Conservation lecture/lab (Biol 257); lab instructor for Ecology, Evolution, & Diversity (Biol 125), Willamette University
Spring 2004	Lecturer for Principles of Organic Evolution (Biol 405), Washington State University-Vancouver (25% of course content)
Summer 2001	Supervised intern in Smithsonian Environmental Research Center's internship program

Spring 2000	Teaching assistant: Principles of Ecology and Evolution; Department of Biology, University of Utah – delivered two guest lectures
July 1996	Resource person for the Mangrove Education and Training Program for Belize, a week-long Smithsonian Institution-sponsored field course for Belizean biology teachers
1995–1996	Teaching assistant: Principles of Ecology and Evolution, Principles of Evolution, Principles of Biology; Department of Biology, University of Utah
1993–1994	Writing advisor, University of Puget Sound Writing Center
1993–1994	Teaching assistant: Diversity of Life, Ecology; Department of Biology, University of Puget Sound

RESEARCH SUPPORT

Bulk Fragment Analysis and Genotyping funding support through the KSU Ecological Genomics Institute and Targeted Excellence. 2006. Total awarded: $5000.

National Science Foundation Doctoral Dissertation Improvement Grant: The effects of variation in host plant quality on a facultative ant-caterpillar mutualism. 1999-2000. Total awarded: $9500

Sigma Xi Grant-in-Aid of Research: The effects of variation in host plant quality on a facultative ant-caterpillar mutualism. 1999. Total awarded: $890

Sigma Xi Grant-in-Aid of Research: The effects of variation in host plant quality on a facultative ant-caterpillar mutualism. 1998. Total awarded: $1000

University of Utah Graduate Research Fellowship, 1998-1999

National Science Foundation Graduate Research Fellowship, 1994-1995, 1996-1998

PUBLICATIONS

Apple, J.L., and D.A. Adamski. 2006. The biology of *Chionodes hibiscella* (Busck) with a description of the immature stages. Proceedings of the Entomological Society of Washington 108:575-582.

Gill, R.A., J.A. Boie, J.G. Bishop, L. Larsen,* J.L. Apple, and R.D. Evans. 2006. Linking community and ecosystem development on Mount St. Helens. Oecologia 148:312-324. * undergraduate researcher

Fagan, W.F., M.A. Lewis, M.G. Neubert, C. Aumann, J.L. Apple, and J.G. Bishop. 2005. When can herbivores slow or reverse the spread of an invading plant? A test case from Mount St. Helens. American Naturalist 166:669-685. *Recipient of the 2006 Presidential Award by the Society of American Naturalists for best paper published in* American Naturalist *the previous calendar year.*

Apple, J.L., and D.H. Feener, Jr. 2001. Ant visitation of extrafloral nectaries of *Passiflora*: the effects of nectary attributes and ant behavior on patterns in facultative ant-plant mutualisms. Oecologia 127: 409-416.

PRESENTATIONS AT MEETINGS

Apple, J.A., A. Joern, P. St. Amand, T. Grace, G.A. Sword, and S.M. Wisely. 2007. Adaptive divergence in host plant use and historical demography in the grasshopper *Hesperotettix viridis.* Poster presentation, Ecological Genomics Symposium, Kansas City.

Apple, J.A., A. Joern, and S.M. Wisely. 2006. Adaptive divergence, genetic drift, and incipient speciation in the grasshopper *Hesperotettix viridis*. Poster presentation, Ecological Genomics Symposium, Kansas City.

Apple, J.A., A. Joern, and S.M. Wisely. 2006. Quaternary history, host plant use, and incipient speciation in the grasshopper *Hesperotettix viridis*. Poster presentation, American Genetics Association Annual Symposium: The Genetics of Speciation, Vancouver, BC.

Bishop, J.G., and J.L. Apple. 2006. Succession, stoichiometry, and inverse density dependent herbivory at Mount St. Helens. Oral presentation, non-presenting author. Ecological Society of America Annual Meeting, Memphis, TN.

O'Hara, N.*, J.G. Bishop, and J.L. Apple. 2005. Addition of phosphorus but not nitrogen increases Orthopteran and Hemipteran density during primary succession at Mount St. Helens. Poster presentation, non-presenting author. Sigma Xi Annual Meeting and Student Research Conference. Seattle, WA. * undergraduate researcher

Bishop, J.G., S.E. Wills, J.L. Apple, and R.A. Gill. 2005. Nutrient competition may cause spatially structured herbivory on lupines at Mount St. Helens. Oral presentation, non-presenting author. XVII International Botanical Congress. Vienna, Austria.

Apple, J.L., and J.G. Bishop. 2004. Herbivore performance varies with host plant density and plant nutrients in primary successional habitat at Mount St. Helens. Oral presentation. The Second Annual Research Advances in Fisheries, Wildlife, and Ecology Symposium. Oregon State University, Corvallis, OR.

Apple, J.L., and J.G. Bishop. 2004. Herbivore performance varies with host plant density and plant nutrients in primary successional habitat at Mount St. Helens. Oral presentation. Ecological Society of America Annual Meeting, Portland, OR.

Bishop, John, J.L. Apple, W.F. Fagan, D. Campbell, C. Crisafulli, and P. Frenzen. 2004. Herbivore effects and spatial structure during primary succession at Mount St. Helens. Oral presentation, non-presenting author. Ecological Society of America Annual Meeting, Portland, OR.

Hinds, T.*, J. Apple, and J. Bishop. 2004. Does plant tissue quality affect Mount St. Helens herbivores? Poster presentation, WSU-Vancouver Research Fair, Vancouver, WA. * local high school teacher

Apple, J.L., J.G. Bishop, W.F. Fagan, J.D. Schade, and M. Wink. 2003. Successionally driven changes in leaf nutrients & spatial patterning of herbivory on lupines at Mount St. Helens. Oral presentation. Ecological Society of America Annual Meeting, Savannah, GA.

Apple, J.L., and D.H. Feener, Jr. 2001. Consequences of light environment for the interactions among ants, an ant-tended herbivore, and its host plant. Oral presentation, Ecological Society of America Annual Meeting, Madison, WI.

Apple, J.L., and D.H. Feener, Jr. 1999. The effects of host plant light environment on a facultative ant-caterpillar mutualism in Panama. Poster presentation, Ecological Society of America Annual Meeting, Spokane, WA.

INVITED SEMINARS

Explaining patterns in insect herbivory in primary succession at Mount St. Helens: spatial heterogeneity and nutrient stoichiometry. 2005. Kansas State University, Manhattan, KS.

Shedding light on an ant-plant-herbivore interaction. 2004. Willamette University, Salem, OR.

Shedding light on an ant-plant-herbivore interaction. 2002. Washington State University, Vancouver, WA.

Consequences of light environment for the interactions among ants, an ant-tended herbivore, and its host plant. 2000. Smithsonian Environmental Research Center, Edgewater, MD.

OTHER RESEARCH AND RELATED EXPERIENCE

Judge for undergraduate presentations in the Graduate Research Forum, Kansas State University, Manhattan, KS, March 2006

Participant, Microsatellite Development Workshop, Kansas State University, July 2005

Member, Rare Plant Steering Committee, Portland Chapter Native Plant Society of Oregon, spring-summer 2004

Volunteer Butterfly Steward, Metro Parks and Greenspaces, Portland, Oregon, 2003-2004

Reviewed manuscripts for the following: American Journal of Botany, Biotropica, Ecology, Ecology Letters, EcoScience, Entomologia Experimentalis et Applicata, Journal of Tropical Ecology, 2000-2006

Participant in Organization for Tropical Studies course 95-1, Tropical Biology: An Ecological Approach, 1995

Undergraduate senior thesis, University of Puget Sound: "*Azteca* ants occupying an epiphytic orchid in Belize: the effects of this association on growth and herbivory in the orchid's red-mangrove host," 1994

Field assistant for Dr. Ilka C. Feller at Smithsonian Institution's research station on Carrie Bow Cay, Belize (June-July 1992, August 1993, July 1994)

Smithsonian Institution's Mangrove Education and Training Program in Belize: volunteer assistant (June-July 1992), contractor for technical services (June-August 1993 and 1994)

ACHIEVEMENTS AND HONORS

Biology Research Merit Award for senior thesis, University of Puget Sound, 1994

Gordon D. Alcorn Award for contribution to the Department of Biology, University of Puget Sound, 1994

James R. Slater Award for Academic Excellence, $1000 grant for summer research, University of Puget Sound, 1994

Phi Beta Kappa, 1994

University of Puget Sound Enrichment Committee Summer Research Award ($250), 1993

Barry M. Goldwater Scholarship ($7000/year), 1992-1994

Hoffman Construction Company Endowed Scholarship ($1500/year), 1992-1994

Puget Sound Association of Phi Beta Kappa Scholarship ($1000), 1992-1993

Phi Kappa Phi, 1992

Phi Sigma Biological Honor Society, 1991

University of Puget Sound Presidential Trustee Scholarship ($5750/year), 1990-1994

National Merit Scholarship ($2000/year), 1990-1994