

CURRICULUM VITAE

John F. Mull

*Department of Zoology
Weber State University
Ogden, UT 84408-2505*

*801-626-6173
jmull@weber.edu*

EDUCATION

*Ph.D. (Biology-Ecology) 1994
Utah State University, Logan, UT*

*B.S. (Biology) 1986
University of Pittsburgh, Pittsburgh, PA*

PROFESSIONAL APPOINTMENTS

*Asst./Assoc./Full Professor
1997 – 2022*

Weber State University, Department of Zoology

*Visiting Lecturer
Summer 2006*

University of Pittsburgh, Pymatuning Laboratory of Ecology

*Associate Professor
2005 – 2006*

Lyndon State College, Department of Natural Sciences

*Visiting Lecturer
1996 – 1997*

University of Cape Coast (Ghana), Department of Zoology

*Visiting Assistant Professor
1995 - 1996*

Northeast Missouri State University, Division of Science

*Visiting Assistant Professor
1994 – 1995*

Denison University, Department of Biology

*Graduate Teaching Assistant
1987 – 1993*

Utah State University, Department of Biology

PEER-REVIEWED PUBLICATIONS

Mull, J.F. and S. Zeveloff. 2021. Consumption of insect and plant exudates by mouse lemurs. *Frontiers in Ecology and Environment* 19: 282.

Hoagstrom, C.W., L. Xiang, N. Lewis-Rogers, P. K. Connors, A. Sessions-Robinson, and **J. F. Mull**. 2019. A quantitative simulation of coevolution with mutation using playing cards. Accepted for publication in *The American Biology Teacher* 81: 127 – 132.

Bravo, A., E. Porzecanski, E.J. Sterling, N. Bynum, M. Cawthorn, D. Fernandez, L. J. Freeman, S.R. Ketcham, T.W. Leslie, **J.F. Mull** and D. Vogler. 2016. Teaching for higher levels of thinking: developing quantitative and analytical skills in environmental science course. *Ecosphere* 7: 1 – 20.

Tepedino, V.J., **J.F. Mull**, T.L. Griswold, and G. Bryant. 2014. Reproduction and pollination of the endangered dwarf bear-poppy *Arctomecon humilis* (Papaveraceae) across a quarter century: Unraveling of a pollination web? *Western North American Naturalist* 74: 311 – 324.

Davenport, S.R., **J.F. Mull**, and C.W. Hoagstrom. 2013. Attempted consumption of a dangerous, riparian ant (*Camponotus vicinus*) by a threatened, fluvial minnow (*Notropis simus pecosensis*). *Southwestern Naturalist* 58: 126 – 128.

Hall, L.K, **J.F. Mull**, and J.C. Cavitt. 2009. Relationship between cheatgrass coverage and the relative abundance of snakes on Antelope Island, Utah. *Western North American Naturalist* 69: 88-95.

Hagenbuch, B.E., N. Bynum, E.J. Sterling, A.H. Bower, J.A. Cigliano, B.J. Abraham, C. Engels, **J.F. Mull**, J.D. Pierce, M.L. Zjhra, J.M. Rhode, S.R. Ketcham, and M.A. Mayer. 2009. Evaluating Multi-Component Assessment Framework for Biodiversity Education. *Teaching Issues and Experiments in Ecology* 6: 1-18.

Mull, J. F. 2003. Dispersal of sagebrush-steppe seeds by the western harvester ant (*Pogonomyrmex occidentalis*). *Western North American Naturalist* 63: 358-362.

MacMahon, J. A., **J. F. Mull** and T. O. Crist. 2000. Harvester ants (*Pogonomyrmex* spp.): Their community and ecosystem influences. *Annual Review of Ecology and Systematics* 31: 265-291.

Mull, J. F., and J. A. MacMahon. 1997. Spatial variation in rates of seed removal by harvester ants (*Pogonomyrmex occidentalis*) in a shrub-steppe ecosystem. *American Midland Naturalist* 138: 1-13.

Mull, J. F., and J. A. MacMahon. 1996. Factors determining the spatial variability of seed densities in a shrub- steppe ecosystem: the role of harvester ants. *Journal of Arid Environments* 32: 181-192.

Mull, J. F., and T. O. Crist. 1993. Timing of mating flights in the western harvester ant, *Pogonomyrmex occidentalis* Cresson (Hymenoptera: Formicidae). *Journal of the Kansas Entomological Society* 66: 372-375.

Anderson, C. J., and **J. F. Mull**. 1992. Emigration of a harvester ant (*Pogonomyrmex occidentalis* Cresson) (Hymenoptera: Formicidae) colony in southwestern Wyoming. *Journal of the Kansas Entomological Society* 65: 456-458.

BOOK REVIEWS AND OTHER PUBLICATIONS

Mull, J.F. 2013. Sahelian acacia savanna. Pages 1087 – 1089 in *Biomes and Ecosystems: An Encyclopedia*, R.W. Howarth and J. Mohan, editors. Salem Press, Ipswich, MA.

Mull, J.F. 2013. Tanami desert. Pages 1207 – 1209 in *Biomes and Ecosystems: An Encyclopedia*, R.W. Howarth and J. Mohan, editors. Salem Press, Ipswich, MA.

Mull, J.F. 2008. Ant-plant interactions in a geographic mosaic. *Ecology* 89: 2362-2363.

Mull, J.F. 2001. Solutions from the wild side. *Ecology* 82: 3561-3562.

Mull, J.F. 1998. A century of bird life in Berks County, PA. *Auk* 115: 1092-1093.

Allison, S. K., W. J. Ehmann, A. M. Ellison and **J. F. Mull**. 1996. A synthetic review of several major ecology textbooks. *Bulletin of the Ecological Society of America* 77: 93-99.

PRESENTATIONS

Huffcutt, P. and **J. Mull**. 2020. Effects of *Pogonomyrmex occidentalis* on neighboring sagebrush arthropod communities. Undergraduate Research Symposium, Weber State University, March 2022.

Thomas, K. and **J.F. Mull**. Oviposition host preference in monarch butterflies (*Danaus plexippus*) and its impact on offspring survival. Poster presentation at the virtual Annual Meeting of the Ecological Society of America, July 2020.

Mull, J.F. 2020. My career on the tenure. Presented as part of the Career Central session at the virtual Meeting of the Ecological Society of America, July 2020.

Smith, C., J. Tumursukh, N. Duuji, B. Tumor and **J. Mull**. Small mammal communities of the Darhad Valley, Mongolia. Poster accepted to the annual meeting of the National Conferences on Undergraduate Research, Bozeman, MT, March 2020. (This meeting was subsequently cancelled due to Covid-19 restrictions.)

Mull, J.F., T.E. Ristau and S.L. Stout. Diminished ant diversity in an over-browsed forest understory. Poster presentation at the North American Congress for Conservation Biology, Toronto, CA, July 2018.

Okazaki, R.K., **J.F. Mull**, and J.C. Marshall. Views of evolution and intelligent design among university students in Utah. Annual Meeting of the Society for the Study of Evolution, Guarajá, Brazil, June 2015.

Hunsaker, C. and **J.F. Mull**. Diplochorous seed dispersal in the endangered dwarf bear-poppy. National Conference on Undergraduate Research, Cheney, WA, April 2015.

Corbin, A. and **J.F. Mull**. The bee fauna of Snow Canyon State Park. National Conference on Undergraduate Research, Lexington, KY, April 2014.

Cawthorn, M., E.J. Sterling, A.L. Porzecanski, A. Bravo, N. Bynum, D. Fernandez del Viso, L.J. Freeman,

S.R. Ketcham, T.W. Leslie, **J.F. Mull**, T.A. Theodose, and D.W. Vogler. *Student Interpretation of Conservation Data: Does their Reach Exceed Their Grasp?* Poster: 26th International Congress for Conservation Biology, Baltimore, MD, July 2013.

Sterling, E.J., A.L. Porzecanski, A. Bravo, N. Bynum, M. Cawthorn, L.J. Freeman, C.S. Griffiths, M.J. Groom, S.R. Ketcham, T.W. Leslie, **J.F. Mull**, and T.A. Theodose. *Conservation Education: Teaching, Learning, and Assessment with NCEP Modules*. Paper presentation: Northeast Natural History Conference, April 2013.

Porzecanski, A.L., A. Bravo, **E.J. Sterling**, N. Bynum, B. Abraham, R. Burks, M. Cawthorn, J. Cigliano, L. Dávalos, D. Fernandez, L. Freeman, M. Groom, S.R. Ketcham, T. Langen, J. Linder, **J.F. Mull**, D. Ruby, T. Theodose, and D.W. Vogler. *How much can students gain in data analysis and critical thinking skills in one semester?* Annual Meeting of the Ecological Society of America, Portland, OR, August 2012.

Goff, Z., **J.F. Mull**, and J.A. Sohl. The role of UV reflectance in seed dispersal by ants. National Conference on Undergraduate Research, Ogden, UT, March 2012.

Mull, J.F. Domestic and international volunteer opportunities for graduates. National Conference on Undergraduate Research, Ogden, UT, March 2012.

Porzecanski, A.L., E.J. Sterling, N. Bynum, A. Bravo, R. L. Burks, A. Gómez, K. Landrigan, B. J. Abraham, G. Bowser, M. Cawthorn, J. A. Cigliano, L. M. Dávalos, D. S. Fernandez, L. Freeman, S. R. Ketcham, T. A. Langen, J. Linder, **J. F. Mull**, M. Palmer, D. Roon, D. Ruby, J. Singleton, T. Theodose, and D. W. Vogler. *Cultivating Skills for 21st Century Professionals: Development & Assessment of Process Skills in Ecology and Conservation Biology Students*. Poster presentation by R. Burks at the Annual Meeting of the Ecological Society of America (ESA), Austin, TX, August 2011.

Jensen, L. and **J.F. Mull**. Occurrence of ant-loving crickets in northern Utah. National Conference on Undergraduate Research, Indianapolis, IN, April 2004.

Vorel, C. and **J.F. Mull**. Function of metapleural gland secretions in the western harvester ant. National Conference on Undergraduate Research, Salt Lake City, UT, April 2003.

Mull, J.F., J. Hatch, and A. Lindahl. The Great Salt Lake: An ecosystem services perspective. Annual Meeting of the Ecological Society of America, Snowbird, UT, August 2000.

Wurst, G.Z. and **J.F. Mull**. Diet and cannibal morphology in salamanders. Society for Integrative and Comparative Biology, Atlanta, GA, January 2000.

J.F. Mull. Using the ecosystem services concept to teach ecology. Annual Meeting of the Ecological Society of America, Spokane, WA, August 1999.

J.F. Mull and D. Dompheh. Composition of the canopy ant fauna in a West African rain forest. Annual Meeting of the Ecological Society of America, Baltimore, MD, August 1998.

Mull, J.F. Ecology of ants in Kakum National Park. Invited presentation for Conservation International guide training session, Kakum National Park, Ghana, January 1997.

Mull, J.F. and A.M. Mull. Seed dispersal by harvester ants in a sagebrush-steppe ecosystem. Annual Meeting of the Ecological Society of America, Snowbird, UT, August 1995.

Mull, J.F. Harvester ants as keystone species in western North America. Invited seminar at Kenyon College, OH, February 1995.

Mull, J.F., and J.A. MacMahon. Spatial variability of a shrub-steppe seed pool: effects of harvester ant foraging. Annual Meeting of the Ecological Society of America, Honolulu, HI, August 1992.

Friese, C.F., T.O. Crist, and **J.F. Mull**. Microbial nest enrichment within the mounds of the western harvester ant (*Pogonomyrmex occidentalis*): comparative patch dynamics between two semiarid sites in Colorado and Wyoming. Annual Meeting of the Ecological Society of America, Honolulu, HI, August 1992.

SIGNIFICANT PROFESSIONAL AND UNIVERSITY SERVICE

2015 – 2018

Director

W.S.U., Ritchey Science and Engineering Fair

Spring 2015

Subject Judge

International Science and Engineering Fair

2013 – 2014; Fall 2008

Interim Chair

W.S.U., Department of Zoology

2012 – 2022

Co-founder and Co-organizer

Annual Antelope Island State Park Spider Festival

2011 – 2015

Member

W.S.U., Environmental Issues Committee

2007 – 2015

Working Group Member

American Museum of Natural History, Network of Conservation Educators and Practitioners (www.ncep.amnh.org)

2008 – 2009

Chair

W.S.U., College of Science Ranking and Tenure Committee

2004 - 2010

Secretary/Chair

Hawkwatch International, Board of Directors

2000

Co-organizer and Presenter

Ecological Society of America Annual Meeting, Public Outreach Event, Salt Lake City, UT

AWARDS

2016	Brady Presidential Distinguished Professor
2015	Outstanding Natural History Paper of 2014, Western North American Naturalist
2005	Nye-Cortez Professor, W.S.U. Honors Program
2004 – 2005	Eccles Teaching Fellow, W.S.U. Honors Program

EXTERNAL GRANT SUPPORT

2012	The Nature Conservancy and the U.S. Bureau of Land Management, Pollination of the dwarf bear-poppy, \$16,500
2011	The Nature Conservancy and U.S. Bureau of Land Management, Seed dispersal of the dwarf bear-poppy, \$ 9,000
2010	U.S. Fish and Wildlife Service, Small Grants for Plants, Seed movement in Holmgren's milkvetch, \$18,785
2005 – 2010	U.S. Forest Service, Northeast Forest Experiment Station, The effect of invasive understory plants on ant community structure, In-kind support of expendables, equipment, and transportation

PROFESSIONAL SOCIETY MEMBERSHIPS

Ecological Society of America http://www.esa.org/esa/	1990 - present
American Institute of Biological Sciences http://www.aibs.org/	1997 - present