

**CURRICULUM VITAE
MATTHEW ORR**

Department of Biology
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Education:

1995. Ph.D., Population Biology, University of California, Davis, Hugh Dingle adviser, thesis: Life history adaptation and reproductive isolation in a grasshopper hybrid zone.

1987. B.A., Biology, Amherst College, Amherst, Mass. Magna Cum Laude, Phi Beta Kappa.

Employment:

2014-present. Assistant Professor, Biology, OSU-Cascades

2012-2013. Instructor, Biology, OSU-Cascades

2003-2011. Instructor, General Science, University of Oregon at OSU-Cascades.

2000-2003. Lecturer, University of California, Berkeley.

1998-2000. Visiting Scholar, University of California, Berkeley.

1994-1998. Postdoctoral Researcher, University of Texas, Austin, TX.

1991-1994. Ph.D. Candidate, University of California, Davis.

1987-1988. Faculty, Thayer Academy, Braintree, MA. (physics/biology)

Curriculum Development

2017: New Course, OSU (CAT 2) - BI 375 Field Methods in Ecological Restoration. This is a two-week field course in which students camp at ecological restoration field sites and conduct authentic research. I was the lead developer of this course.

Peer-Reviewed Papers (* = undergraduate coauthor)

Orr, M.R., J.D. Nelson*, J.W. Watson, 2019. Heterospecific information supports a foraging mutualism between corvids and raptors. In press, *Animal Behaviour*. (1st quartile, 5-year journal impact factor 3.51, 16th in the field of Behavioral Sciences.)

Orr, M.R., R.J. Reuter, S.J. Murphy*, 2019. Solarization to control downy brome (*Bromus tectorum*) for small-scale ecological restoration. *Invasive Plant Science and Management*. <https://doi.org/10.1017/inp.2019.8>. (3rd quartile, 5-year journal impact factor 1.28, 144th in the field of Plant Sciences.)

Orr, M.R., K.M. Kocurek, D.L. Young*, 2018. Gut Microbiota and Human Health: Insights from Ecological Restoration. *Quarterly Review of Biology* 93(2): 73-90. DOI 10.1086/698021. (1st quartile, 5-year journal impact factor 4.98, 26th in the field of Biology)

E.G. LeBrun, P.J. Diebold, M.R. Orr, L.E. Gilbert, 2015. Widespread chemical detoxification of alkaloid venom by formicine ants. *Journal of Chemical Ecology* 41: 884-895. DOI 10.1007/s10886-015-0625-3. (2nd quartile, 5-year journal impact factor 2.98, 63 in the field of Ecology.)

D. H. Feener, M. R. Orr, K. M. Wackford, J. M. Longo, Benson, W. W. & L. E. Gilbert, 2008. Geographic variation in resource dominance-discovery in Brazilian ant communities. *Ecology* 89:1824-1836.

- Orr, M. R., R. X. De Camargo*, & W. W. Benson, 2003. Interactions Between Ant Species Increase Arrival Rates of an Ant Parasitoid. *Animal Behaviour* 65:1187-1193
- Orr, M. R., D. L. Dahlsten, & W. W. Benson, 2003. Ecological interactions among ants in the genus *Linepithema*, their phorid parasitoids, and ant competitors. *Ecological Entomology* 28:203-210.
- Mattos, M. R. & M. R. Orr, 2002. Two new *Pseudacteon* (Diptera: Phoridae) parasitoids of ants in the genus *Linepithema* in Brazil. *Studia Dipterologia* 9:283-288
- Orr, M. R., D. L. Dahlsten, & W. W. Benson, 2001. Host specificity of *Pseudacteon* (Diptera: Phoridae) parasitoids that attack *Linepithema* (Hymenoptera: Formicidae) in South America. *Environmental Entomology* 30:742-747.
- Orr, M. R. & T. B. Smith, 1998. Ecology and speciation. *Trends in Ecology and Evolution* 13 (12):502-506.
- Orr, M. R. & S. H. Seike, 1998. Parasitic flies (Diptera: Phoridae) deter foraging by Argentine ants (*Linepithema humile*) in their native habitat in Brazil. *Oecologia* 117:420-425.
- Orr, M. R., S. H. Seike, L. E. Gilbert, 1997. Foraging ecology and patterns of diversification in parasitoids (Diptera: Phoridae) of fire ants in south Brazil. *Ecological Entomology* 22:305-314.
- Orr, M. R., 1996. Host manipulation by *Wolbachia* is a neutral trait in single populations. *Animal Behaviour* 51:1183-1185.
- Orr, M. R., 1996. Life history adaptation and reproductive isolation in a grasshopper hybrid zone. *Evolution* 50:704-716.
- Orr, M. R., S. H. Seike, W. W. Benson, L. E. Gilbert, 1995. Flies suppress fire ants. *Nature* 373:292-293.
- Orr, M. R., A. H. Porter, T. A. Mousseau, H. Dingle, 1994. Molecular and morphological evidence for hybridization between two ecologically distinct grasshoppers (*Melanoplus sanguinipes* and *M. devastator*) in California. *Heredity* 72:42-54.
- Orr, M. R., 1992. Parasitic flies (Diptera: Phoridae) influence foraging rhythms and caste division of labor in the leaf-cutter ant *Atta cephalotes*. *Behavioral Ecology and Sociobiology* 30:395-402.

Awards

2017 – OSU-Cascades Teaching Award.

2012 – OSU Cascades Outreach Award.