



Sara Jackrel

I am a fifth year graduate student in Tim Wootton's lab in the Department of Ecology & Evolution at the University of Chicago. I am broadly interested in community ecology, particularly trophic interactions. I am currently studying biodiversity of trees growing in riparian zones of the Pacific Northwest and what the implications of this diversity are for aquatic and terrestrial communities.

Education

The University of Chicago

Ph.D. Candidate, Ecology & Evolution

M.S. Ecology & Evolution, 2012

The College of New Jersey

B.S. Biology, *summa cum laude*, Honors Program, and Concentration in Environmental Studies, 2010

Fellowships and Honors

Achievement Rewards for College Scientists (ARCS) Scholar (2014-present)
American Society of Naturalists Student Research Award (2014)
National Geographic Society Young Explorer's Grant (2014-present)
NSF Doctoral Dissertation Improvement Grant (2013-present)
NSF Graduate Research Fellow (2010-present)
Barry M. Goldwater Scholar (2009-2010)
Morris K. Udall Scholar (2008-2009 and 2009-2010)
The College of New Jersey Faculty Award for Excellence in Biology (2010)
The College of New Jersey Honors Program Outstanding Scholar Award (2009)
Phi Beta Kappa Honor Society (2009)
Phi Kappa Phi Honor Society (2009)
Beta Beta Beta National Biological Honor Society (2008)

Publications

- S.L. Jackrel, T.C. Morton and J.T. Wootton. 2016. Intraspecific leaf chemistry drives locally accelerated ecosystem function in aquatic and terrestrial communities. *Ecology*: In Press.
- S.L. Jackrel and J.T. Wootton. 2015. Diversity of riparian plants among and within species shapes river communities. *PLOS ONE*: e0142362.
- S.L. Jackrel and J.T. Wootton. 2015. Cascading Effects of Induced Terrestrial Plant Defenses on Aquatic and Terrestrial Ecosystem Function. *Proceedings of the Royal Society Series B*. 282: 20142522.
- S.L. Jackrel and J.T. Wootton. 2014. Local adaptation of stream communities to intraspecific variation in a terrestrial ecosystem subsidy. *Ecology* 95:37-43.
- S.L. Jackrel and H.K. Reinert. 2011. Behavioral responses of a dietary specialist, Queen Snakes (*Regina septemvittata*), to potential chemoattractants released by its prey. *Journal of Herpetology* 45:272-276.
- S.R. Heise-Pavlov, S.L. Jackrel, and S. Meeks. 2011. Conservation of a rare arboreal mammal: habitat preferences of the Lumholtz's tree-kangaroo, *Dendrolagus lumholtzi*. *Australian Mammalogy* 33:5-12.
- S.L. Jackrel and R.S. Matlack. 2010. Influence of surface area, water level, and adjacent vegetation on bat use of artificial water sources. *American Midland Naturalist* 164:74-79.
- P.E. Klug, S.L. Jackrel, and K.A. With. 2010. Linking snake habitat use to nest predation risk in grassland birds: the dangers of shrub cover. *Oecologia* 162:803-813.
- S.L. Jackrel. 2009. Habitat use by nesting grassland birds and their snake predators in the tallgrass prairie. *TCNJ Journal of Student Scholarship XI*: <<http://joss.pages.tcnj.edu/files/2012/04/2009-Jackrel.pdf>>.