Stanford

Jeffrey Smith

Ph.D. Student in Biology, admitted Autumn 2015

Bio

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I am a first year PhD student in the Daily Lab at Stanford University. My research focuses on the implications of human induced land use change on biodiversity and ecosystem function. I am currently working with the Center for Conservation Biology and the Natural Capital Project to develop research objectives for my dissertation. Prior to starting at Stanford, I obtained a Masters of Environmental Science from the Yale School of Forestry and Environmental Studies, where I worked with Dr. Os Schmitz to determine how New England old-field arthropod food webs varied along a suburban-forest gradient. I received my Bachelor of Science (in Ecology and Environmental Science) from the University of Delaware. While there I researched biological control of invasive weeds and restoration ecology with Dr. Judy Hough-Goldstein.

HONORS AND AWARDS

- Graduate Research Fellow, National Science Foundation (2014-2019)

EDUCATION AND CERTIFICATIONS

- BS, University of Delaware , Ecology, Environmental Science (2013)
- MESc, Yale School of Forestry and Environmental Studies (2015)

Research & Scholarship

LAB AFFILIATIONS

- Gretchen Daily, Center for Conservation Biology (9/1/2015)

Publications

PUBLICATIONS

- **Predator community composition is linked to soil carbon retention across a human land use gradient** *ECOLOGY*
  Schmitz, O. J., Buchkowski, R. W., Smith, J. R., Telthorst, M., Rosenblatt, A. E.
  2017; 98 (5): 1256-1265
- **Cascading ecological effects of landscape moderated arthropod diversity** *OIKOS*
  Smith, J. R., Schmitz, O. J.
  2016; 125 (9): 1261-1272
- **Spatially-explicit models of global tree density** *SCIENTIFIC DATA*
  Glick, H. B., Bettigole, C., Maynard, D. S., Covey, K. R., Smith, J. R., Crowther, T. W.
  2016; 3

- **Mapping tree density at a global scale** *NATURE*
  Crowther, T. W., Glick, H. B., Covey, K. R., Bettigole, C., Maynard, D. S., Thomas, S. M., Smith, J. R., Hintler, G., Duguid, M. C., Amatulli, G., Tuanmu, M., Jetz, W., Salas, et al
  2015; 525 (7568): 201-?

- **Untangling the fungal niche: the trait-based approach** *FRONTIERS IN MICROBIOLOGY*
  Crowther, T. W., Maynard, D. S., Crowther, T. R., Peccia, J., Smith, J. R., Bradford, M. A.
  2014; 5

- **Impact of herbivory on mile-a-minute weed (Persicaria perfoliata) seed production and viability** *BIOLOGICAL CONTROL*
  Smith, J. R., Hough-Goldstein, J.
  2014; 76: 60-64

- **Potential Impact of Halyomorpha halys (Hemiptera: Pentatomidae) on Grape Production in the Finger Lakes Region of New York** *JOURNAL OF ENTOMOLOGICAL SCIENCE*
  Smith, J. R., Hesler, S. P., Loeb, G. M.
  2014; 49 (3): 290-303

- **Variable Seed Viability of Mile-a-Minute Weed (Devil's Tearthumb, Persicaria perfoliata)** *INVASIVE PLANT SCIENCE AND MANAGEMENT*
  Smith, J. R., Hough-Goldstein, J., Lake, E. C.
  2014; 7 (1): 107-112

- **Phototaxis, Host Cues, and Host-Plant Finding in a Monophagous Weevil, Rhinoncomimus latipes** *JOURNAL OF INSECT BEHAVIOR*
  Smith, J. R., Hough-Goldstein, J.
  2013; 26 (1): 109-119