Tad A. Dallas

CONTACT INFORMATION

Odum School of Ecology
University of Georgia
Athens, GA 30602, U.S.A

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EDUCATION

University of Georgia, Athens, Georgia USA.
Ph.D. student, Ecology , 2011 - present (Advisor: Dr. John Drake)

Truman State University, Kirksville, Missouri USA.
M.S., Biology , May 2010 (Advisor: Stephanie Foré)

Truman State University, Kirksville, Missouri USA.
B.S., Biology, May 2009 (Minor in Mathematical Biology)

RESEARCH EXPERIENCE

U.S. Department of Agriculture Biological Science Technician *2010-2011*
Agricultural Research Service - Subtropical Plant Pathology Lab under Dr. Tim Gottwald

Master of Science in Biology thesis research under Dr. S. Foré *2009-2010*
Thesis title: *An examination of variation in Dermacentor variabilis burdens within and between host species*

Mathematical Biology Program *2008*
National Science Foundation Research Experience for Undergraduates (REU)

Biological Field Research Technician *2007 - 2009*
Truman State University - Department of Biology

PUBLICATIONS

Submitted

- Park, A., C. Cleveland, **T. Dallas**, J. Corn. 2014. Vector species richness increases parasite prevalence in host populations through functional diversity modulating the duration of seasonal transmission (in review: *Journal of Animal Ecology*)
- **Dallas, T.** and E. Cornelius. 2014. Co-extinction in a host-parasite network: identifying key hosts for network stability. (in review: *Nature Scientific Reports*)
- C. Cleveland, **T. Dallas**, S. Vigil, J. Corn, A. Park. 2014. Environmentally-driven vector community structure predicts wildlife disease patterns (in review: *Ecology*)
- **Dallas, T.**, J. Drake, M. Krkosek. 2014. Pathogen invasion thresholds in a Daphnia-microparasite system. (in review: *Proceedings B*)
- Presley S.J., **T. Dallas**, B.T. Klingbeil, M.R. Willig. 2014. Phylogenetic signals in host-parasite associations for Neotropical bats and Nearctic desert rodents. (in review: *Journal of Evolutionary Ecology*)

Published

- **Dallas,T.** and J.M. Drake 2014. Relative importance of environmental, geographic, and spatial variables on zooplankton metacommunities. Ecosphere. 5(9): art104 doi:10.1890/ES14-00071.1.

- **Dallas,T.** 2014. *metacom*: an R package for the analysis of metacommunity structure. Ecography. 37(4):402-405. doi:10.1111/j.1600-0587.2013.00695.x
- **Dallas,T.** & S. Presley. 2014. Relative importance of host environment, transmission potential, and host phylogeny to the structure of parasite metacommunities. Oikos. 123: 866874. doi:10.1111/oik.00707
- **Dallas,T.** & J.M. Drake 2013. Nitrate enrichment alters a Daphnia-microparasite interaction through multiple pathways. Ecology and Evolution. 4(3):243-250. doi: 10.1002/ece3.925
- Kim, H.J., J.E. Cavanaugh, **T. Dallas**, & S. Foré. 2013. Model selection criteria for overdispersed data and their application to the characterization of a host-parasite relationship. Environmental and Ecological Statistics. doi:10.1007/s10651-013-0257-0
- **Dallas,T.** 2013. metacom: Analysis of the 'Elements of Metacommunity Structure'. R package version 1.2. http://CRAN.R-project.org/package=metacom
- **Dallas, T.** , S. Foré. 2013. Chemical attraction of *Dermacentor variabilis* ticks parasitic to *Peromyscus leucopus* based on host body mass and sex. Experimental and Applied Acarology 61(2): 243-250. doi:10.1007/s10493-013-9690-x
- **Dallas, T.**, S. Foré, & H.J. Kim. 2012. Modeling the influence of *Peromyscus leucopus* body mass, sex and habitat on immature *Dermacentor variabilis* burdens. Journal of Vector Ecology. 37(2):338-341. doi:10.1111/j.1948-7134.2012.00236.x
- **Dallas, T.**, S. Foré & H.J. Kim. 2010. Factors influencing immature *Dermacentor variabilis* load on the white-footed mouse (*Peromyscus leucopus*). *Technical Report, Truman State University.*

Professional Affiliations

- Ecological Society of America
- Society for Conservation Biology (Georgia Chapter)

Professional Service

- Reviewer for: *Ecology*, *Ecology and Evolution*, *Ecological Complexity*, *Journal of Animal Ecology*, *Functional Ecology*, *Methods in Ecology and Evolution*, and *Oikos*
- Webmaster for Macroecology of Infectious Disease Research Coordination Network (2014 -)
- Webmaster for Disease Ecology section of the Ecological Society of America (2014 -)
- Webmaster for the Computational Ecology and Epidemiology Study Group at UGA (2014-)
- Webmaster Odum School Graduate Student Organization (2014)
- Co-organizer of Odum School Graduate Student Symposium (2014)
- Secretary Odum School Graduate Student Organization (2012)

Teaching Experience

- Invited lecturer on community assembly theory (Population and Community Ecology) (Oct. 2014)
- Mentored REU student for Population Biology of Infectious Disease REU program (Summer 2014)
- Mentored high school student as part of Young Dawgs program (Summer 2013)
- Co-taught Disease and Vector Ecology at Truman State with S Foré (2010)
- Invited Lecturer (Introductory Biology 1) (2009)

Fellowships and Awards

- Best Student Paper Award – Applied (Odum School of Ecology, 2014)
- Best Student Paper Award – Theoretical (Odum School of Ecology, 2014)
- Odum School of Ecology small grant (2 x $1200) (2012, 2014)
- Phi Kappa Phi Love of Learning grant ($500) (2011)
- Member of Phi Kappa Phi honor fraternity (2010 - present)
- Graduate Teaching/Research Assistantship (2009-2010)
- Intoductory Biology (107 and 108) Laboratory Teaching Assistant (2009)
- Truman State University Biology Departmental travel grant (2009)
- Truman State University Graduate travel grant recipient (2009)