Tad Dallas

about

PhD Candidate University of Georgia

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programming R

C++ Java SQL Octave SAS

Ł̃TŁX Markdown

education

since 2011	Ph.D. candidate in Ecology Advised by John Drake	Odum School of Ecology
2009-2010	M.S. Biology Ecology of small mammal-tick interactions advised by Stephanie Foré	Truman State University
2005-2009	B.S. Biology Majoring in Biology Minor in Mathematical Biology	Truman State University

experience

2015	Distributed R Analytics Intern Software development for analysis of land	HP Vertica - Big Data Platform Dev Team ${\it gedata}$
2010-2011	Biological Science Technician Subtropical Plant Pathology Lab	USDA - Agricultural Research Service
2009-2010	Masters thesis research Understanding differential tick burdens on small mammals Truman State University	
2008	Mathematical Biology Program Mathematical estimation of host range of	NSF Research Experience for Undergraduates (REU) using mark-recapture data

publications

in review

- Park, A., C. Cleveland, T. Dallas, J. Corn. 201X. Vector species richness increases parasite
 prevalence in host populations through functional diversity modulating the duration of seasonal transmission (in review: *Ecology and Evolution*)
- Dallas, T., J. Drake, M. Krkosek. 201X. Pathogen invasion thresholds in a *Daphnia*-microparasite system. (in review: *Proceedings B*)

published

- Dallas, T., R. Hall, and J. Drake. 201X. Competition-mediated feedbacks in experimental multi-species epizootics (in press: *Ecology*)
- Dallas, T. and E. Cornelius. 2015. Co-extinction in a host-parasite network: identifying key hosts for network stability. *Nature Scientific Reports* DOI: 10.1038/srep13185
- Park, A., C. Cleveland, Dallas, T., and J. Corn. 2015. Vector species richness increases hemorrhagic disease prevalence through functional diversity modulating the duration of seasonal transmission. *Parasitology*
- Presley S.J., Dallas, T., B.T. Klingbeil, M.R. Willig. 2015. Phylogenetic signals in host-parasite associations for Neotropical bats and Nearctic desert rodents. *Biological Journal of the Linnaen Society* </>

- 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: 866–874. 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*.

software

metacom Analysis of metacommunity structure CRAN and R package

ParasiteR Programmatically access the Global Helminth Database R package

professional service

I have served as a reviewer for the following journals:

Ecology

Journal of Animal Ecology

• Ecology and Evolution

Oikos

Ecological Complexity

· Proceedings B

I have served as webmaster for the following organizations:

- Ecological Society of America Disease Ecology section
- Macroecology of Infectious Disease NSF Research Coordination Network
- · Computational Ecology and Epidemiology Study Group UGA
- Graduate Student Association Odum School of Ecology

mentoring

2013	Young Dawgs Program	Mathieu Holtackers
2014	Population Biology of Infectious Disease REU	Trianna Humphries

awards

2014	Best student paper award - Odum School of Ecology		Applied category
2014	Best student paper award - Odum School of Ecology		Theoretical category
2014	Best presentation award ($4th$ place)	Odum School O	Graduate Student Symposium
2012 - 2014	Odum School small grant recipient		Fully funded for 3 years
2011	Love of Learning award		Phi Kappa Phi

professional affiliations

since 2014	Society for Conservation Biology member	Georgia chapter
since 2012	Ecological Society of America member	Aquatic Ecology and Disease Ecology sections
since 2010	Phi Kappa Phi member	Academic honor fraternity