Tad Dallas

experience

about

Postdoctoral researcher University of California @ Davis

tdallas@uga.edu taddallas.github.io

taddallas 🐱

programming

Proficient

R SQL

Matlab/Octave

Familiar

Julia Python Java C++

Markup

⊮TEX Markdown HTML/XML/XPath

Version control

Git

2016 - Postdoctoral fellow

Advised by Alan Hastings

2015 Distributed R Analytics Intern HP Vertica - Big Data Platform Dev Team

Software development for analysis of large data

2010-2011 Biological Science Technician USDA - Agricultural Research Service

Subtropical Plant Pathology Lab

2008 Mathematical Biology Program NSF Research Experience for Undergraduates (REU)

Mathematical estimation of host range using mark-recapture data

education

2011 - 2016 Ph.D. Ecology Odum School of Ecology

Advised by John Drake

2009 - 2010 M.S. Biology Truman State University

Ecology of small mammal-tick interactions

advised by Stephanie Foré

2005 - 2009 B.S. Biology Truman State University

Majoring in Biology

Minor in Mathematical Biology

software

metacom Analysis of metacommunity structure CRAN and R package

helminthR Programmatically access the a global host-helminth database



R package

UC Davis

publications

in review

- Dallas, T., A. Kramer, M. Zokan, and J.M. Drake. Ordination obscures the influence of environment on plankton metacommunity structure. *Limnology and Oceanography Letters*
- Cleveland, C.A., T. Dallas, S. Vigil, D.G. Mead, J.L. Corn, and A.W. Park. 201x. Metacommunity ecology links environmental drivers to *Culicoides* communities and hemorrhagic disease reports in the southeastern United States. *Oecologia*
- Dallas, T., J. Drake, and M. Krkosek. Pathogen invasion thresholds in a *Daphnia*-microparasite system. *American Naturalist*

published

- Stephens, P., Altizer, S., Smith, K., Aguirre, A., Brown, J., Budischak, S., Byers, J., Dallas, T., Davies, J., Drake, J., Ezenwa, V., Farrell, M., Gittleman, J., Han, B., Huang, S., Hutchinson, R., Johnson, P., Nunn, C., Onstad, D., Park, A., Vazquez-Prokopec, G., Schmidt, J., and Poulin, R. 2016. The Macroecology of Infectious Diseases: A New Perspective on Global-scale Drivers of Pathogen Distributions and Impacts. (in press: *Ecology Letters*) doi: 10.1111/ele.12644
- Dallas, T. 2016. helminthR: An R interface to the London Natural History Museum's Host-Parasite Database. *Ecography* 39(4): 391-393. doi: 10.1111/ecog.02131 </>
- Dallas, T., R. Hall, and J. Drake. 2016. Competition-mediated feedbacks in experimental multi-species epizootics. *Ecology* 97(3):661-670. doi:10.1890/15-0305.1 </>
- Dallas, T., M. Holtackers, and J. Drake. 2016. Costs of resistance and infection by a generalist pathogen. *Ecology and Evolution* doi: 10.1002/ece3.1889 </>
- 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, T. Dallas, and J. Corn. 2015. Vector species richness increases hemorrhagic disease prevalence through functional diversity modulating the duration of seasonal transmission. *Parasitology* 10: 1-6. doi: 10.1017/S0031182015000578
- Presley S.J., T. Dallas, B.T. Klingbeil, M.R. Willig. 2015. Phylogenetic signals in host-parasite
 associations for Neotropical bats and Nearctic desert rodents. Biological Journal of the Linnean 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 2014. 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 service

I have served as a reviewer for the following journals:

- Ecography
- Ecology
- Ecology and Evolution
- Ecological Complexity
- Functional Ecology
- Global Ecology and Biogeography
- Journal of Animal Ecology

- Journal of Vector Ecology
- Landscape Ecology
- Methods in Ecology and Evolution
- Oecologia
- · Oikos
- Philosophical Transactions B
- Proceedings of the Royal Society B

Mathieu Holtackers

I have served as webmaster for the following organizations:

Young Dawgs Program

- 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

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	Presentation award (4 th place)	Odum School Grad	uate Student Symposium
2012 - 2014	Odum School small grant recipient		Fully funded for 3 years
2011	Love of Learning award		Phi Kappa Phi

professional affiliations

2016 -	Association for the Sciences of Limnology a	nd Oceanography
2014 -	Society for Conservation Biology member	Georgia chapter
2012 -	Ecological Society of America member	Aquatic Ecology and Disease Ecology sections
2010 -	Phi Kappa Phi member	Academic honor fraternity