

FLOYD A. REED, PH.D.

Education

2004. Ph.D. Department of Molecular Biology and Genetics
Cornell University, Ithaca, NY
1996. B.A. (hons.) Department of Biology
Department of Chemistry (second major)
Warren Wilson College, Swannanoa, NC

Work Experience

- 2011–present. Assistant Professor. Department of Biology, University of Hawai‘i at Mānoa, Honolulu, Hawai‘i
- 2008–2011. *Unabhängige Forschungsgruppenleiter* (Independent Group Leader). Department of Evolutionary Genetics, Max Planck Institute for Evolutionary Biology, Plön, Germany
- 2006–2008. Research Associate. Department of Biology, University of Maryland, College Park, Maryland
- 2004–2006. Faculty Research Assistant. Department of Biology, University of Maryland, College Park, Maryland

Selected Publications

2015. Shaefer, A., J. Wolf, P. C. Alves, L. Bergström, M. W. Bruford, *et al.* Genomics and the challenging translation into conservation practice. *Trends in Ecology and Evolution* 30: 78–87. doi:10.1016/j.tree.2014.11.009
2014. Reeves, R. G., J. Bryk, P. M. Altrock, J. A. Denton, and **F. A. Reed**. First Steps Towards Underdominant Genetic Transformation of Insect Populations. *PLoS ONE* 9: e97557. doi:10.1371/journal.pone.0097557
2014. Gokhale, C. S., R. G. Reeves, and **F. A. Reed**. Dynamics of a combined medea-underdominant population transformation system. *BMC Evolutionary Biology* 14: 98. doi:10.1186/1471-2148-14-98
2013. **Reed, F. A.**, A. Traulsen, and P. M. Altrock. Underdominance. In *Brenner’s Encyclopedia of Genetics*, S. Brenner & J. H. Miller, Eds., Elsevier Science, Inc.
2012. Reeves, R. G., J. Denton, F. Santucci, J. Bryk, and **F. A. Reed**. Scientific Standards and the Regulation of Genetically Modified Insects. *PLoS Neglected Tropical Diseases* 6: e1502. doi:10.1371/journal.pntd.0001502
2012. Traulsen, A. and **F. A. Reed**. From genes to games: Cooperation and cyclic dominance of meiotic drive alleles. *Journal of Theoretical Biology* 299: 120–125. doi:10.1016/j.jtbi.2011.04.032

2011. Altrock, P. M., A. Traulsen, and **F. A. Reed**. Stability Properties of Underdominance in Finite Subdivided Populations. *PLoS Computational Biology* 7: e1002260. doi:10.1371/journal.pcbi.1002260
2010. Altrock, P. M., A. Traulsen, R. G. Reeves, and **F. A. Reed**. Using underdominance to bi-stably transform local populations. *Journal of Theoretical Biology* 267: 62–75. doi:10.1016/j.jtbi.2010.08.004
2009. Tishkoff, S. A., **F. A. Reed**[Ⓢ], F. R. Friedlaender[Ⓢ], C. Ehret, A. Ranciaro, *et al.* The Genetic Structure and History of Africans and African Americans. *Science* 324: 1035–1044. doi:10.1126/science.1172257
2008. Milinski, M., R. Sommerfeld, H.-J. Krambeck, **F. A. Reed** and J. Marotzke. The collective risk social dilemma, and the prevention of simulated dangerous climate change. *Proceedings of the National Academy of Sciences USA* 105: 2291–2294. doi:10.1073/pnas.0709546105
2008. Friedlaender, J. S., F. R. Friedlaender, **F. A. Reed**, K. K. Kidd, J. R. Kidd, *et al.* The Genetic Structure of Pacific Islanders. *PLoS Genetics* 4: e19. doi:10.1371/journal.pgen.0040019
2007. **Reed, F. A.** Two-locus epistasis with sexually antagonistic selection: A genetic Parrondo’s paradox. *Genetics* 176: 1923–1929. doi:10.1534/genetics.106.069997
2007. Tishkoff, S. A.[Ⓢ], **F. A. Reed**[Ⓢ], A. Ranciaro, B. F. Voight, C. C. Babbitt, *et al.* Convergent adaptation of human lactase persistence in Africa and Europe. *Nature Genetics* 39: 31–40. doi:10.1038/ng1946
2006. **Reed, F. A.** and S. A. Tishkoff. African human diversity, origins and migrations. *Current Opinion in Genetics & Development* 16: 597–605. doi:10.1016/j.gde.2006.10.008
2006. **Reed, F. A.** and C. F. Aquadro. Mutation, selection and the future of human evolution. *Trends in Genetics* 22: 479–484. doi:10.1016/j.tig.2006.07.005

Grants

2012. Victoria S. and Bradley L. Geist Foundation, administered by the Hawai’i Community Foundation, Medical Research Program. Engineering Underdominance in *Culex quinquefasciatus*. 12ADVC-51343. 18 months, \$50,000. Role PI
2010. *Deutsche Forschungsgemeinschaft* (DFG , German National Research Foundation). *Die Entstehung von Resistenzen gegen genetisch induzierte Sterilität bei Insekten*. (The evolution of resistance to genetically induced sterility in insects.) RE-3062/2-1. 2 years, €59,385+BAT IIa/E13 pay-scale personnel support (approximately €120,000 total, or \$170,000 equivalent). Role PI
2006. U.S. National Institutes of Health (NRSA). Characterizing a genetic history of African populations. F32HG003801/F32HG03801. 2 years, \$98,224. Role Postdoc.