

Jeffrey R. Adrion

Institute of Ecology and Evolution
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EDUCATION

Postdoctoral Fellow, August 2018 - present
University of Oregon, Eugene, Oregon, USA
Advisor: Andrew Kern

Ph.D. in Biology, July 2018
Indiana University, Bloomington, Indiana, USA
Advisors: Matthew Hahn and Kristi Montooth

Bachelor of Science *summa cum laude* in Zoology, May 2012
North Carolina State University, Raleigh, North Carolina, USA
Mentors: Nadia Singh and Nick Haddad

PUBLICATIONS

Chakraborty, M., C. Chang, J.P. Vedanayagam, **J.R. Adrion**, K.L. Montooth, C.D. Meiklejohn, D.E. Khost, A.M. Larracuent, and J.J. Emmerson. *In Prep.* Evolution of genome structure in the *Drosophila simulans* clade.

Alcalay, Y., S. Fuchs, R. Galizi, F. Bernardini, R.E. Haghighat-Khah, D.B. Rusch, **J.R. Adrion**, M.W. Hahn, P. Tortosa, and P.A. Papathanos. 2019. The potential for a released autosomal X-shredder becoming a driving-Y chromosome and invasively suppressing wild populations of malaria mosquitoes. *bioRxiv*. doi:10.1101/860551

Adrion, J.R., J.G. Galloway, and A.D. Kern. 2019. Inferring the landscape of recombination using recurrent neural networks. *bioRxiv*. doi:10.1101/662247

Wepprich, T., L. Ries, J. Wiedmann, **J.R. Adrion**, N.M. Haddad. 2019. Butterfly abundance declines over 20 years of systematic monitoring in Ohio, USA. *PLOS One*. 14(7). doi:10.1371/journal.pone.0216270

Adrion, J.R., D.J. Begun, and M.W. Hahn. 2019. Patterns of transposable element variation and clinality in *Drosophila*. *Molecular Ecology*. 28(6): 1523-1536. doi:10.1111/mec.14961

Adrion, J.R., M.J. Song, D.R. Schrider, M.W. Hahn, and S. Schaack. 2017. Genome-wide estimates of transposable element insertion and deletion rates in *Drosophila melanogaster*. *Genome Biology and Evolution*. 9(5): 1329-1340. doi:10.1093/gbe/evx05

Adrion, J.R., P.S. White, and K.L. Montooth. 2016. The roles of compensatory evolution and constraint in aminoacyl tRNA synthetase evolution. *Molecular Biology and Evolution*. 33(1): 151-162. doi:10.1093/molbev/msv206

Adrion, J.R., M.W. Hahn, and B.S. Cooper. 2015. Revisiting classis clines in *Drosophila melanogaster* in the age of genomics. *Trends in Genetics*. 31(8): 434-444. doi:10.1016/j.tig.2015.05.006

Adrion, J.R., A. Kousathanas, M. Pascual, H.J. Burrack, N.M. Haddad, A. Bergland, H. Machado, T. Sackton, T. Schlenke, M. Watada, D. Wegmann, and N.D. Singh. 2014. *Drosophila suzukii*: the genetic footprint of a recent, worldwide invasion. *Molecular Biology and Evolution*. 31(12): 3148-3163. doi:10.1093/molbev/msu246

PRESENTATIONS

Society for Molecular Biology and Evolution, *Talk*, 2019, Manchester, United Kingdom
Population, Evolutionary, and Quantitative Genetics, *Poster*, 2018, Madison, WI
Society for Molecular Biology and Evolution, *Talk*, 2017, Austin, TX
Evolution, *Talk and Poster*, 2016, Austin, TX
Midwest Ecology and Evolution Conference, *Poster*, 2015, Bloomington, IN
56th Annual Drosophila Research Conference, *Poster*, 2015, Chicago, IL
Evolution, *Talk*, 2014, Raleigh, NC
Society for Molecular Biology and Evolution, *Talk*, 2014, San Juan, Puerto Rico
Evolution, *Poster*, 2013, Snowbird, UT
53rd Annual Drosophila Research Conference, *Poster*, 2012, Chicago, IL

TEACHING POSITIONS

Associate Instructor, L111 – Evolution & Diversity, Indiana University, Fall 2012

FELLOWSHIPS, GRANTS & AWARDS

National Science Foundation Graduate Research Fellowship, 2013-2018, est. \$150,000
Society for the Study of Evolution Rosemary Grant Award, 2013, \$2100
NIH Training Grant in Genetics, Cellular, and Molecular Science, 2013-2015, \$100,000
Howard Hughes Medical Institute Undergraduate Research Scholars Grant, 2012, \$2000
North Carolina State University Undergraduate Travel Award, 2012, \$450
North Carolina State University Undergraduate Research Grant, 2011, \$500

MENTORING & OUTREACH

Peer Mentor, Jim Holland Summer Science Research Program, 2013-2016
Peer Mentor, Groups Program STEM Initiative – Indiana University, 2012-2015
Team Coach, Science Olympiad – Bloomington High School South, 2012-2013