

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.

Adrion J.R., C.B. Cole, N. Dukler, J.G. Galloway, A.L. Gladstein, G. Gower, C.C. Kyriazis, A.P. Ragsdale, G. Tsambos, F. Baumdicker, J. Carlson, R.A. Cartwright, A. Durvasula, B.Y. Kim, P. McKenzie, P.W. Messer, E. Noskova, D. Ortega-Del Vecchyo, T.J. Struck, S. Gravel, R.N. Gutenkunst, P.L. Ralph, D.R. Schrider, A. Siepel, J. Kelleher, and A.D. Kern. 2019. A community-maintained standard library of population genetic models. *bioRxiv*. doi:10.1101/2019.12.20.885129

Alcalay, Y., S. Fuchs, R. Galizi, F. Bernardini, R.E. Haghghat-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 classic 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