

Brian Lohman
Curriculum Vitae
brianlohman.github.io

Education:

University of Texas at Austin	2012-Present
Ph. D. in Ecology, Evolution, and Behavior	
Advisor: Dr. Daniel I. Bolnick	
Expected to graduate May 2017	
University of Idaho	2007-2011
Bachelor of Science	
Major: Biology	Minor: Psychology

Academic Positions:

College of Natural Science Fellow, University of Texas at Austin	2016-Present
Teaching Assistant, University of Texas at Austin	2012 – 2016

Manuscripts in preparation and review:

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- Lohman, B.K.**, Weber, J.N., Steinel, N.C., and Bolnick, D.I. The role of gene expression in the recent evolution of resistance in a model host parasite system (*in review at Evolution*)
- Lohman, B.K.**, Stutz, W., and Bolnick, D.I. Gene expression stasis and plasticity following migration into a foreign environment. (*in review at Molecular Ecology*)
- Bell, M.A., **Lohman, B.K.**, Hernandez, A., and LaRocco, A. Skeletal developmental staging system for threespine stickleback from populations with robust, moderate, and gracile skeletons. (*in prep*)

Published or In Press:

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- Stuart, Y.E., Veen, T., Weber, J.N., Hanson, D., Ravinet, M., **Lohman, B.K.**, Thompson, C.J., Tasneem, T., Doggett, A., Izen, R., Ahmed, N., Barrett, R.D.H., Hendry, A.P., Peichel, C.L. and Bolnick, D.I. 2017. Contrasting effects of environment and genetics generate a continuum of parallel evolution. *Nature Ecol. Evol. In press.*
- Lohman, B.K.**, Berner, D., and Bolnick, D.I. (2017) Clines arc through multivariate morphospace. *American Naturalist*. 189 (4):354
- Lohman, B.K.**, Weber, J.N., Matz, M.V, and Bolnick, D.D. Evaluation of TagSeq, a reliable low-cost alternative for RNAseq. (2016) *Molecular Ecology Resources*. 16 (6):1315
- Wiley, E., Fuiten, A., Dosey, M., **Lohman, B.K.**, Merkes, C., and Azuma, M. (2015) The Caudal Skeleton of the Zebrafish, *Danio rerio*, from a Phylogenetic Perspective: A Polyurial Interpretation of Homologous Structures. 103 (4):740
- Lohman, B.K.**, Sirotkin, H.I., Bell, M.A. (2013). A Whole-Mount Method for Trypsin Clearing and Collagen Type II Antibody Staining. *Copeia* 1:127
- Hughes, J.M., **Lohman, B.K.**, Deckert, G.E., Nichols, E.P., Settles, M., Abdo, Z., and Top, E.M. The Role of Clonal Interference in the Evolutionary Dynamics of Plasmid-Host Adaptation. *mBio* 3:July/August 2012; DOI: 10.1128/mBio00077-12

Rollins, J.L., **Lohman, B.K.**, and Bell, M.A. 2014. Does ion limitation select for pelvic reduction in threespine stickleback (*Gasterosteus aculeatus*)? Evolutionary Ecology Research. 16:1-20.

Lescak, E.A., von Hippel, F.A., **Lohman, B.K.**, Sherbick, M.L. Predation of threespine stickleback by dragonfly naiads. Ecology of Freshwater Fish. 14 June 2012. DOI: 10.1111/j.1600-0633.2012.00579.x

Grants (totaling \$87,700) and awards:

- 2016 University of Texas College of Natural Sciences C.P “Pete” Oliver Memorial Endowed Research Award (\$1200)
- 2016 National Science Foundation East Asia Pacific Institute (EAPSI) Fellowship (Summer 2016) (\$12,000)
- 2016 University of Texas at Austin College of Natural Sciences Continuing Fellowship (2016-2017 academic year, \$40,000)
- 2015 University of Texas at Austin College of Natural Sciences Summer Fellowship (\$8,000)
- 2015 University of Washington Summer Institute in Statistical Genetics Scholarship
- 2015 Stickleback Meeting Student Travel Award (\$500)
- 2015 University of Texas at Austin Department of Ecology, Evolution, and Behavior Student Travel Award (\$1,000)
- 2014 National Science Foundation GRFP Honorable Mention (\$0)
- 2014 University of Texas at Austin Department of Ecology, Evolution, and Behavior DDIG-like Grant (\$8,000)
- 2014 University of Texas at Austin Center for Computational Biology and Bioinformatics Big Data Travel Award (\$500)
- 2013 National Science Foundation GRFP Honorable Mention (\$0)
- 2012 National Science Foundation Evo-Devo-Eco Network (EDEN) Travel Award (\$500)
- 2012 University of Texas at Austin Department of Ecology, Evolution, and Behavior Start-up Grant (\$2,000)
- 2011 University of Idaho Department of Biological Sciences Undergraduate Research Fellowship (\$1,000)
- 2011 National Science Foundation Evo-Devo-Eco Network (EDEN) Undergraduate Internship Fellow (\$4,000)
- 2010 Idaho IDeA Network of Biomedical Research Excellence Travel Grant (\$500)
- 2010 National Science Foundation Research Experience for Undergraduates Fellowship at University of Alaska Anchorage (\$7,000)
- 2009 University of Idaho College of Science Dr. Brian and Gayle Hill Undergraduate Research Fellowship (\$1,000)
- 2009 University of Idaho Department of Biological Sciences Undergraduate Research Fellowship (\$500)

Professional Service Activities:

- 2014 Mentored students from underrepresented groups in science through HHMI EXROP program.
- 2013 Mentored K-12 educators Tania Tasneem and Andrew Doggett through NSF RET awarded to Dr. Bonick.
- 2012 Contributed multimedia to the Howard Hughes Medical Institute Virtual Stickleback Lab
- 2012 Featured in short film introducing the Virtual Stickleback Lab at the National Association of Biology Teachers annual conference

Presentations at scientific meetings:

- Lohman, B.K.**, and Bolnick, D.I. Tag-based RNAseq as a low-cost alternative for gene expression analysis in threespine stickleback. June 2017. NSF EAPSI Research Symposium. Tokyo, Japan.
- Lohman, B.K.**, and Bolnick, D.I. Tag-based RNAseq as a low-cost alternative for gene expression analysis in threespine stickleback. July 2015. 8th International Conference on Stickleback Evolution and Behavior, Stony Brook University, Stony Brook NY.
- Lohman, B.K.**, Berner, D., and Bonick, D.I. Multivariate analysis of a cline. 2013. University of Texas at Austin Integrative Biology Graduate Student Symposium, Austin TX.
- Lohman, B.K.**, Sirotki, H.I., and Bell, M.A. A Whole-Mount Method for Trypsin Clearing and Collagen Type II Antibody Staining. 2013. Society for Integrative and Comparative Biology. San Francisco, CA.
- Top, E.M., Abdo, Z., Yano, H., Hughes, J.M., **Lohman, B.K.**, Simmons, R., Deckert, G., Rogers, L., Smith, Z. 3 August 2010. Plasmids as a vehicle of antibiotic resistance: evolution of plasmid host-range. Poster presentation. INBRE 9th Annual Research Conference, Moscow, ID.
- Wojtowicz, A.J., Top, E.M., Hughes, J.M., **Lohman, B.K.**, Abdo, Z. October 10, 2009. Estimation of probability of clonal interference using Markov Chain Monte Carlo (MCMC) and approximate Bayesian computation (ABC). Poster presentation, COBRE EAC, Moscow, ID.
- Lohman, B.K.**, Hughes, J.M., Yano, H., Sota, M., Abdo, Z., and Top, E.M. Evolutionary dynamics of plasmid-host adaptation. Poster presented: 1) 14 June 2009, Evolution 2009, Moscow, ID. 2) 18 September 2009, Western Region COBRE-INBRE Scientific Conference, Big Sky, MT. 3) 10 October 2009, COBRE EAC, Moscow, ID. 4) 30 October 2009, University of Idaho 5th Annual College of Science Student Research Exposition, Moscow, ID. 5) 24 April 2010, Evo-Wibo, Port Townsend, WA.

Undergraduates mentored:

Kevin Quinteros (HHMI EXROP), Haley Barlow, and Haley Cartwright

References:

Dr. Daniel Bolnick	Dr. Thomas Juenger	Dr. Misha Matz
Section of Integrative Biology	Section of Integrative Biology	Section of Integrative Biology
One University Station C0990	One University Station C0990	One University Station C0990
University of Texas at Austin	University of Texas at Austin	University of Texas at Austin
Austin, TX 78712	Austin, TX 78712	Austin, TX 78712
(512) 471-2824	(512) 232-5751	(512) 471-6731
danbolnick@austin.utexas.edu	tjuenger@austin.utexas.edu	matz@utexas.edu