Brian Lohman
Curriculum Vitae

Education:

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

Academic Positions:

2012 – present	Teaching assistant at University of Texas at Austin

Grants, fellowships, and awards:

2016	University of Texas College of Natural Sciences C.P "Pete" Oliver Memorial Endowed Research Award
2016	National Science Foundation East Asia Pacific Institute (EAPSI) Fellowship (Summer 2016)
2016	University of Texas at Austin College of Natural Sciences Continuing Fellowship (2016-2017 academic year)
2015	University of Texas at Austin College of Natural Sciences Summer Fellowship
2015	University of Washington Summer Institute in Statistical Genetics Scholarship
2015	Stickleback Meeting Student Travel Award
2015	University of Texas at Austin Department of Ecology, Evolution, and Behavior Student Travel Award
2014	National Science Foundation GRFP Honorable Mention
2014	University of Texas at Austin Department of Ecology, Evolution, and Behavior DDIG-like Grant
2014	University of Texas at Austin Center for Computational Biology and Bioinformatics Big Data Travel Award
2013	National Science Foundation GRFP Honorable Mention
2012	National Science Foundation Evo-Devo-Eco Network (EDEN) Travel Award
2012	University of Texas at Austin Department of Ecology, Evolution, and Behavior Start-up Grant
2011	University of Idaho Department of Biological Sciences Undergraduate Research Fellowship
2011	National Science Foundation Evo-Devo-Eco Network (EDEN) Undergraduate Internship Fellow
2010	Idaho IDeA Network of Biomedical Research Excellence Travel Grant

2010	National Science Foundation Research Experience for Undergraduates Fellowship at University of Alaska Anchorage
2009	University of Idaho College of Science Dr. Brian and Gayle Hill Undergraduate Research Fellowship
2009	University of Idaho Department of Biological Sciences Undergraduate Research Fellowship

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

Manuscripts in preparation and review:

Lohman, B.K., Weber, J.N., Steinel, N., and Bolnick, D.I. Gene expression drives recently evolved host resistance in a model host-parasite system.

Lohman, B.K., Berner, D., and Bolnick, D.I. Multivariate analysis of a cline.

Lohman, B.K., Stutz, W.E. and Bolnick, D.E. A reciprocal transplant of lake and stream stickleback reveals selection on growth, immune gene expression, and MHC II genotype.

Lohman, B.K., Weber, J.N., Steinel, N., and Bolnick, D.I. Interaction between host and parasite genotypes drive host expression during parasitic infection in a vertebrate model system.

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.

Published or In Press:

Lohman, B.K., Weber, J.N., Matz, M.V, and Bolnick, D.D. Evaluation of TagSeq, a reliable low-cost alternative for RNAseq. (*in Press at Molecular Ecology Resources)*

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

Wiley, E., Fuiten, A., Doosey, M., **Lohman, B.K.**, Merkes, C., and Azuma. M. The Caudal Skeleton of the Zebrafish, *Danio rerio*, from a Phylogenetic Perspective: A Polyural Interpretation of Homologous Structures. *In Press. Copeia.*

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. 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:

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