STEPHANIE J. SPIELMAN

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CONTACT INFORMATION

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Github: https://www.github.com/sjspielman

Department of Integrative Biology, UT Austin

Brown University

Karen T. Romer Undergraduate Teaching and Research Award

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EDUCATION	
The University of Texas at Austin Ph.D. in Ecology, Evolution and Behavior (expected May 2016) Research focus in Computational Molecular Evolution Advisor: Claus O. Wilke	2011 - present
Brown University Sc.B. in Biology, with Honors Concentration in Ecology and Evolutionary Biology Advisor: Daniel M. Weinreich	2006 - 2010
FELLOWSHIPS AND AWARDS	
EEB Blair Endowment Travel Award Department of Integrative Biology, UT Austin	2015
Ruth L. Kirschstein NRSA Predoctoral Fellowship (NIGMS/NIH) University of Texas at Austin	2015 - 2017
Outstanding Teaching Award Biology Instructional Office, UT Austin	2014
EEB Travel Award Department of Integrative Biology, UT Austin	2013
SMBE Graduate Student Travel Award Society for Molecular Biology and Evolution	2013
Integrative Biology Graduate Recruitment Fellowship	2011

2009

PEER-REVIEWED PUBLICATIONS

- 6. **Spielman SJ**, Kumar K*, and Wilke CO. Comprehensive, structurally-curated alignment and phylogeny of vertebrate biogenic amine receptors. PeerJ 3:e773 http://dx.doi.org/10.7717/peerj.773
- 5. **SJ Spielman** and CO Wilke. The relationship between dN/dS and scaled selection coefficients. Mol Biol Evol 32(4):1097-1108.
- 4. **Spielman SJ**, Dawson ET*, and Wilke CO. 2014. *Limited utility of residue masking for positive-selection inference*. Mol Biol Evol 31(9):2496 2500.
- 3. Shahmoradi A, Sydykova DK*, **Spielman SJ**, Jackson EL, Dawson ET* Meyer AG, and Wilke CO. 2014. Predicting evolutionary site variability from structure in viral proteins: buriedness, flexibility, and design. J Mol Evol 79:130 142.
- 2. Tien MZ*, Meyer AG, Sydykova DK*, **Spielman SJ**, and Wilke CO. 2013. *Maximum allowed solvent accessibilites of residues in proteins*. PLoS One 8(11):e80635.
- 1. **Spielman SJ** and Wilke CO. 2013. Membrane environment imposes unique selection pressures in transmembrane domains of G-protein coupled receptors. J Mol Evol 76(3):172 182.

PREPRINTS AND OPINIONS

1. **Spielman SJ**[†], Meyer, AG[†], and Wilke CO. 2014. *Increased evolutionary rate in the 2014 West African Ebola outbreak is due to transient polymorphism and not positive selection.* bioRxiv doi: 10.1101/011429. [†]Authors contributed equally.

PRESENTATIONS AND POSTERS

How limited data and transient polymorphism influence evolutionary sequence analysis of EBOV genomes.

Contributed poster at Modeling the Spread and Control of Ebola in West Africa: a rapid response workshop.

Georgia Institute of Technology, Atlanta, GA 2015.

Limited utility of residue masking for positive-selection inference.

Contributed poster at 2nd Annual Symposium on Big Data in Biology, CCBB The University of Texas at Austin, Austin, TX 2014.

^{*}Denotes undergraduate co-author.

The molecular evolution of membrane proteins.

Contributed talk at SMBE Satellite Meeting, MPEII: Thermodynamics, Phylogenetics, and Structure University of Colorado, Aurora, CO 2013.

Membrane environment imposes unique selection pressures on GPCRs.

Contributed poster at Annual BEACON Congress Michigan State University, East Lansing, MI 2013.

TEACHING EXPERIENCE

Lead Instructor, Introduction to Python Big Data Summer School Center for Computational Biology and Bioinformatics, UT Austin	May 2015
Co-instructor, Peer-led Introduction to Biocomputing Center for Computational Biology and Bioinformatics, UT Austin	Spring 2015
Teaching Assistant, Computational Biology and Bioinformatics Department of Statistics and Data Science, UT Austin	Spring 2015
Co-instructor, Introduction to Python Big Data Summer School	May 2014
Center for Computational Biology and Bioinformatics, UT Austin Teaching Assistant, Biostatistics	Fall 2013
Department of Statistics and Data Science, UT Austin Teaching Assistant, Evolution	Spring 2013
Department of Integrative Biology, UT Austin Teaching Assistant, Biostatistics	Fall 2012
Department of Statistics and Data Science, UT Austin	
Teaching Assistant, Evolutionary Biology Department of Biology, Brown University	Fall 2009