

Stephanie J. Spielman

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https://sjspielman.github.io

Education **University of Texas at Austin**, Austin, TX. Expected May 2016
Ph.D. in Ecology, Evolution, and Behavior
Advisor: Claus O. Wilke, PhD

Brown University, Providence, RI. 2010
Sc.B. in Biology, with Honors
Advisor: Daniel M. Weinreich, PhD

Awards and Honors **Outstanding Teaching Award** 2014
UT Austin, Biology Instructional Office

UT Austin EEB Travel Grant 2013
UT Austin, Department of Integrative Biology

SMBE Graduate Student Travel Grant 2013
Society for Molecular Biology and Evolution

UT Austin Integrative Biology Graduate Recruitment Fellowship 2011
UT Austin, Department of Integrative Biology

Undergraduate Teaching and Research Award 2009
Brown University

Submitted Manuscripts *Comprehensive, structurally-curated alignment and phylogeny of vertebrate biogenic amine receptors.* **Spielman SJ**, Kumar K*, and Wilke CO. In review, PeerJ. preprint <https://peerj.com/preprints/571/>

The relationship between dN/dS and scaled selection coefficients. **Spielman SJ** and Wilke CO. In review, Mol Biol Evol.

*Denotes undergraduate co-author.

Peer-reviewed Publications *Limited utility of residue masking for positive-selection inference.* **Spielman SJ**, Dawson ET*, and Wilke CO. 2014. Mol Biol Evol 31(9):2496 - 2500.

Predicting evolutionary site variability from structure in viral proteins: buriedness, flexibility, and design. Shahmoradi A, Sydykova DK*, **Spielman SJ**, Jackson EL, Dawson ET* Meyer AG, and Wilke CO. 2014. J Mol Evol 79:130 - 142.

Maximum allowed solvent accessibilities of residues in proteins. Tien MZ*, Meyer AG, Sydykova DK*, **Spielman SJ**, and Wilke CO. 2013. PLoS One 8(11):e80635.

Membrane environment imposes unique selection pressures in transmembrane domains of G-protein coupled receptors. **Spielman SJ** and Wilke CO. 2013. J Mol Evol 76(3):172 - 182.

*Denotes undergraduate co-author.

Presentations and Posters	Molecular Evolution of Membrane Proteins. 2013 Contributed talk at <i>Mechanisms of Protein Evolution II</i> Conference, Aurora, CO.
	Membrane environment imposes unique selection pressures on GPCRs. 2013 Contributed poster at <i>Annual BEACON Congress</i> , East Lansing, MI.
Teaching	Instructor, Introduction to Python Short Course May 2014 UT Austin, Center for Computational Biology and Bioinformatics
	TA, Undergraduate Biostatistics Fall 2013 UT Austin, Department of Statistics and Data Science
	TA, Undergraduate Evolution Spring 2013 UT Austin, Department of Integrative Biology
	TA, Undergraduate Biostatistics Fall 2012 UT Austin, Department of Statistics and Data Science
	TA, Undergraduate Evolutionary Biology Fall 2009 Brown University, Department of Biology
Academic Service	Undergraduate Biostatistics curriculum development 2012 UT Austin, Department of Statistics and Data Science
	<i>Ad hoc referee: Molecular Biology and Evolution, PLoS Pathogens</i>