

## Stephanie J. Spielman

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**Contact Information**      stephanie.spielman@gmail.com  
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**      **NIH Ruth L. Kirschstein National Research Service Award**      2015-2017  
Predoctoral Fellow, Sponsor Dr. Claus Wilke

**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

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

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.

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

**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.

\*Denotes undergraduate co-author.

## Submitted Manuscripts

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

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

**Spielman SJ**<sup>†</sup>, Meyer, AG<sup>†</sup>, and Wilke CO. 2014. *Increased evolutionary rate in the 2014 West African Ebola outbreak is due to transient polymorphism and not positive selection*. In review, Mol Biol Evol. bioRxiv doi: 10.1101/011429 .

<sup>†</sup>Co-first author.

\*Denotes undergraduate co-author.

## Presentations and Posters

**Molecular Evolution of Membrane Proteins.** 2013  
Contributed talk at *Mechanisms of Protein Evolution II* Conference, Aurora, CO.

**Membrane environment imposes unique selection pressures on GPCRs.** 2013  
Contributed poster at *Annual BEACON Congress*, East Lansing, MI.

## Teaching

**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

*Ad hoc referee: Molecular Biology and Evolution, PLoS Pathogens*