

ACADEMIC	University of Michigan Fellow, Michigan Society of Fellows Assistant Professor of Complex Systems <i>Autumn 2018 - Spring 2021</i>
	University of Pennsylvania Ph. D. Biology Advisor: Joshua Plotkin Thesis: <i>Null Models for Cultural and Social Evolution</i> <i>Autumn 2012 - Summer 2018</i>
	Harvard Medical School, Dept. of Systems Biology Visiting Research Fellow Advisor: Walter Fontana <i>Winter 2012 - Summer 2012</i>
	University of California, Los Angeles M. Sc. Biomathematics Advisor: Van Savage Thesis: <i>Automated measurements of vessel networks from MRI and comparison to scaling theory</i> <i>Autumn 2010 - Summer 2011</i>
	Friday Harbor Laboratories, University of Washington Undergraduate Research Apprentice in Community Ecology <i>Spring 2007</i>
	University of Washington B. Sc. Physics <i>Autumn 2001 - Autumn 2004</i>
	Seattle Central Community College <i>Autumn 2000 - Spring 2001</i>
PUBLICATIONS	<p><u>Newberry, M. G.¹, Ahern, C. A.¹, Clark, R., Plotkin, J. B. (2017). Detecting evolutionary forces in language change. <i>Nature</i> 551, 223-226. doi:10.1038/nature24455</u> Media coverage: AXIOS, The Atlantic, the guardian, Science, and others</p> <p><u>Tekin, E., Hunt, D., Newberry, M. G., Savage, V. M. (2016). Do vascular networks branch optimally or randomly across spatial scales? <i>PLoS Computational Biology</i> 12(11), p.e1005223. doi:10.1371/journal.pcbi.1005223</u></p> <p><u>Newberry, M. G., McCandlish, D. M., Plotkin, J. B. (2016). Assortative mating can impede or facilitate fixation of underdominant alleles. <i>Theoretical Population Biology</i> 112, 14-21. doi:10.1016/j.tpb.2016.07.003</u></p> <p><u>Newberry, M. G., Ennis, D. B., Savage, V. M. (2015). Testing foundations of biological scaling theory using automated measurements of vascular networks. <i>PLoS Computational Biology</i> 11(8), e1004455. doi:10.1371/journal.pcbi.1004455</u></p>
SOFTWARE	<p><u>Newberry, M. G., (2014-2017) Stemmanator: Use algorithms from phylogenetics to create a stemma codicum. http://stemmanator.org</u></p> <p><u>Newberry, M. G., (2013) Signalarium: On-the-fly protein-protein interaction database. https://github.com/mnewberry/signalarium</u></p> <p><u>Newberry, M. G., (2011-2017) Angicart: Segment vessel systems from radiographic images. https://github.com/mnewberry/angicart</u></p>
TEACHING	<p>Designed and taught <i>Intro to Data Visualization</i> at Department of Making and Doing Teaching Assistantship, BIO 446, Statistics for Biologists, at University of Pennsylvania <i>April 29, 2015</i></p> <p>Teaching Assistantship, BIO 446, Statistics for Biologists, at University of Pennsylvania <i>Autumn 2014</i></p> <p>Teaching Assistantship, BIO 446, Statistics for Biologists, at University of Pennsylvania <i>Autumn 2013</i></p> <p>Designed and taught <i>Math Kung Fu</i> at The Public School, Los Angeles <i>Summer, 2011</i></p> <p>Physics Lab Instructor at Garfield High School, Seattle, WA <i>Spring 2006</i></p>

¹Joint first authors

PROFESSIONAL	Border Stylo Senior Engineer	<i>June 2009 - July 2010</i>
	Institute for Environmental Research and Education Software Development Consultant	<i>Feb. 2008 - June 2009</i>
	SiteScout (acquired by Rubicon Project) Software Developer	<i>June 2006 - Jan. 2008</i>
	Pacific Wildland Fire Science Laboratory , US Forest Service Data Analyst, Field technician, Systems Administrator	<i>July 2002 - Nov. 2005</i>
	Seattle Central Community College Computer Lab Assistant	<i>Oct. 2000 - Aug. 2001</i>
ACADEMIC HONORS	Fellowship, Michigan Society of Fellows	<i>2018</i>
	SAS Dissertation Completion Fellowship, University of Pennsylvania	<i>2017</i>
	Biology Departmental Teaching Award, University of Pennsylvania	<i>2013</i>
REVIEWER	Proceedings of the Royal Society B	
SERVICE AND COMMUNITY	Philadelphia Traction Company <i>Scientist in Residence</i>	<i>2012 - 2018</i>
	The Hacktory <i>Volunteer</i>	<i>Oct 2016 - May 2018</i>
	Philadelphia Botanical Club <i>Member</i>	
	Department of Making and Doing <i>Power User (advisory board)</i>	<i>April - Oct. 2015</i>
	Manning Publications Co <i>Technical Proofreader for Gnuplot in Action</i>	<i>Oct. 2008</i>
	San Juan Monitoring Project <i>Relational Database Consultant</i>	<i>May. 2007 - Feb. 2008</i>
	University of Washington Botany Greenhouse <i>Volunteer</i>	<i>Nov. 2006 - Mar. 2007</i>
	Seattle Community Colocation Project <i>Founding Member</i>	<i>June 2004 - Present</i>
TALKS	Complex Systems Seminar, University of Michigan	<i>2018</i>
	PPRC Ecology Conference, Columbia University	<i>2017</i>
	Philadelphia Evolution Group mixer, Drexel University	<i>2016</i>
	Acetarium Residency talk, Boston, MA	<i>2014</i>
	New England Complex Systems Institute, Boston, MA	<i>2014</i>
	PPRC Ecology Conference, Columbia University	<i>2013</i>
	Toorcamp, Neah Bay, WA	<i>2012</i>