

# Sam Way

932 Portland Place, Boulder, Colorado 80304, USA  
samfway@gmail.com • (720)-724-5727 • <http://samfway.com>

Education	Ph.D. Computer Science, University of Colorado at Boulder Advised by Aaron Clauset IGERT fellow in the program of Interdisciplinary Quantitative Biology (IQ Biology)	2012 – 2017 (expected)
	M.S. Electrical Engineering, University of Nebraska–Lincoln Advised by Khalid Sayood and Ozkan Ufuk Nalbantoglu Thesis: “Classification of Genomic Sequences by Latent Semantic Analysis”	2011 – 2012
	B.S. Electrical Engineering, University of Nebraska–Lincoln	2005 – 2010
	B.S. Computer Engineering, University of Nebraska–Lincoln	
Research Experience	University of Colorado at Boulder Graduate Research Assistant, Computer Science Department Science of science: gender inequality in faculty hiring; trends in scholarly productivity. Social networks: online social network assembly. Human health: health signals in the human microbiome; structural modifications to cardiac networks. Biomedical: active learning frameworks for automated genome engineering; genomic analysis.	2012 – Present
	University of Nebraska–Lincoln Graduate Research Assistant, Electrical Engineering Department Classification of genomic sequences, metric development. High-dimensional data visualization.	2010 – 2012
	University of Nebraska–Lincoln Undergraduate Research Assistant, Electrical Engineering Department Information theoretic analysis of genomic sequences. Genome assembly algorithms.	2009 – 2010
Professional Experience	Spotify — New York, NY Analytics Research, Data Science Intern	Summer 2016
	Red Cocoa II, LLC. — Lincoln, Nebraska Embedded Systems, Software Engineering Intern	2009 – 2012
	Interact Incorporated — Lincoln, Nebraska Software Engineering Intern	Spring 2009
	Sandhills Publishing — Lincoln, Nebraska Software Engineering Intern	2007 – 2009
Peer-reviewed Publications	[7] S. F. Way, D. B. Larremore, and A. Clauset, “Gender, productivity, and prestige in computer science faculty hiring Networks.” <i>Proc. 25th Int’l Conf. on World Wide Web</i> (2016).	
	[6] S. Lumbieras, P. Mealy, C. Verzijl, and S. F. Way, “Quantifying convergence in the sciences.” <i>Pensamiento</i> , 71(269): 1383–1399 (2016).	
	[5] R. T. Gill, A. L. Halweg-Edwards, A. Clauset, and S. F. Way, “Synthesis aided design: The biological design-build-test engineering paradigm?” <i>Biotechnology Bioengineering</i> , 113(1), 7–10 (2016).	
	[4] A. Z. Jacobs, S. F. Way, J. Ugander, and A. Clauset, “Assembling thefacebook: Using heterogeneity to understand online social network assembly.” <i>Proc. ACM Web Science Conference</i> (2015).	
	[3] Z. Xu, D. Malmer, M. Langille, S. F. Way, and R. Knight, “Which is more important for classifying microbial communities: who’s there or what they can do?” <i>ISME J.</i> 2014 Dec; 8(12): 2357–2359 (2014).	
	[2] O. U. Nalbantoglu, S. F. Way, S. H. Hinrichs, and K. Sayood, “RAIphy: Phylogenetic classification of metagenomics samples using iterative refinement of relative abundance index profiles.” <i>BMC Bioinformatics</i> , 12(1), 41 (2011).	

	<p>[1] D. J. Russell, <b>S. F. Way</b>, A. K. Benson, and K. Sayood, "A grammar-based distance metric enables fast and accurate clustering of large sets of 16S sequences." <i>BMC Bioinformatics</i>, 11(1), 601 (2010).</p>	
Manuscripts In Preparation	<p>[5] <b>S. F. Way</b>, A. C. Morgan, A. Clauset, and D. B. Larremore "The misleading narrative of the canonical faculty productivity trajectory." Submitted: <a href="https://arxiv.org/abs/1612.08228">https://arxiv.org/abs/1612.08228</a>.</p> <p>[4] <b>S. F. Way</b>, S. Gil, and A. Clauset, "Location's role in shaping musical identity."</p> <p>[3] H. Ashikaga, <b>S. F. Way</b>, J. Chrispin, and J. Garland, "Targeted structural perturbation improves functional connectivity in human cardiac networks." Under review at <i>Circ. Res.</i></p> <p>[2] D. Citron, L. Brandenberger, and <b>S. F. Way</b>, "Measuring topological transitions in scientific collaboration networks."</p> <p>[1] <b>S. F. Way</b>, A. D. Broido, N. Connor, B. Demmitt, K. S. Krauter, and A. Clauset, "Predicting behavioral and health state variables from the human microbiome."</p>	
Service	<p>International Conference on the World Wide Web (WWW) 2017, Program Committee</p> <p>International Conference on Network Science (NetSci) 2017, Program Committee</p> <p>International Conference on Web and Social Media (ICWSM) 2016, Program Committee</p>	
Presentations & Teaching	<p><b>S. F. Way</b>, "Trends and Gaps in Scholarly Productivity of Computer Science Faculty." International Conference on Computational Social Science, Chicago, US, Jun 2016.</p> <p>D. Citron, L. Brandenberger, and <b>S. F. Way</b>, "Measuring Topological Transitions in Scientific Collaboration Networks Using Topic Modeling for Subfield Detection." International Conference on Computational Social Science, Chicago, US, Jun 2016.</p> <p><b>S. F. Way</b>, "Gender, Productivity, and Prestige in Computer Science Faculty Hiring Networks." International World Wide Web Conference, Montreal, Canada, Apr 2016.</p> <p><b>S. F. Way</b>, "Gender Inequality in Computer Science." International Conference on Network Science, Zaragoza, Spain, Jun 2015.</p> <p><b>S. F. Way</b> and A. Robbins-Pianka, "Optimization of Exogenous Pathways." Univ. of Colorado Biofrontiers' Big Data Symposium, Boulder, US, May 2014.</p> <p><b>S. F. Way</b> and J. Azofeifa, "Introduction to Machine Learning." Univ. of Colorado IQ Biology Bootcamp Sessions, Boulder, US, Aug 2014.</p>	
Patents	<p>US 13/954925, Europe PCT US2013/052797: Classification of Genomic Sequences by Latent Semantic Analysis</p> <p>US (filing): Guided Therapeutic Intervention for Rewiring Functional Cardiac Networks in Human Atrial Fibrillation</p>	
Other Experience	<p>Complex Systems Summer School Santa Fe Institute, Santa Fe, New Mexico.</p> <p>Engineering in China (University of Nebraska study abroad program)</p> <p>University of Nebraska Jazz Ensemble (Bassist)</p>	<p>Summer 2015</p> <p>Summer 2008</p> <p>2005 – 2008</p>
References	(Available upon request)	