

Jack Peterson, Ph.D.

CONTACT	827 Century Drive NE #302 Albany, OR 97322	jack@tinybike.com (541) 401-8842
EXPERIENCE	Software Developer Tinybike Interactive, Albany, OR	12/2012 – present
	Laufer Junior Fellow Stony Brook University, Stony Brook, NY	4/2012 – 12/2012
SKILLS	Programming <ul style="list-style-type: none">- Fluent in Python, JavaScript, PHP, Matlab, SQL, and Maple- Django, Ember.js, Express.js, Joomla, Drupal, Weebly, ‘hand-rolled’ MVC- Node.js, Socket.IO/WebSockets, Apache- MySQL and PostgreSQL databases- JavaScript and Python scripting for ArcGIS 10.1- PySide/PyQt GUI development, OpenCV computer vision/video processing- LaTeX typesetting and Sphinx documentation engine- Bitcoin/altcoin and Ripple daemon RPC and client-side transactions- Web 2.0 technology: AJAX, jQuery, CSS3, HTML5, Leaflet, sigma.js Recent projects <ul style="list-style-type: none">- Peercover (peercover.com): Gateway and currency exchange for the Ripple distributed financial transactions network.- GeoNIS (geonis.lternet.edu): ArcGIS-based web mapping service for spatial data collected for the Long Term Ecological Research network.- WormCam: Video processing/analysis to automate <i>C. elegans</i> lifespan assays- Laufer Center for Physical and Quantitative Biology (laufercenter.stonybrook.edu): Web site and CMS for the Laufer Center at Stony Brook University.- dataRonin (dataronin.com): Personal website and ‘FoxPlot’ graphing app.- interacto.me: Interactive web application for protein network visualization.- North Carolina Emergency Nurses Association (nc-ena.com): Web site and CMS for the North Carolina Emergency Nurses Association.- Epidemify (epidemify.com): RSS/text mining to create disease breakout maps.- Al Levno Photo (allevnophoto.com): Personal/scientific photography site.- Tinybike Interactive (tinybike.com): Web development & design portfolio	
EDUCATION	University of California, San Francisco Ph.D., Biophysics, March 2012 - Dissertation: <i>Network models of stochastic power-laws</i>	8/2007 – 3/2012
	University of Georgia B.S., Physics, May 2007 B.S., Genetics, May 2004	6/2000 – 5/2007
SELECTED PUBLICATIONS	[1] J. Peterson , P. Dixit, and K. Dill. A maximum entropy framework for nonexponential distributions. <i>Proc. Natl. Acad. Sci. USA</i> , 110: 20380–20385, 2013. [2] J. Peterson , S. Pressé, K. Peterson, and K. Dill. Simulated evolution of protein-protein interaction networks with realistic topology. <i>PLoS ONE</i> 7: e39052, 2012. [3] J. Peterson , S. Pressé, and K. Dill. Nonuniversal power-law scaling in the probability distribution of scientific citations. <i>Proc. Natl. Acad. Sci. USA</i> , 107: 16023–16027, 2010.	

References available upon request.