

## F. William (Will) Townes

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<http://willtownes.github.io/>

<b>SUMMARY</b>	I am a Ph.D. student in Biostatistics at Harvard University focusing on Bayesian methods for large scale “messy” data. My advisor is Dr. Rafael Irizarry. My interests include machine learning, genomics, and infectious diseases. My goal is to produce statistical methods and open source software implementations to help scientists achieve their research goals more effectively.		
<b>EDUCATION</b>	<b>Ph.D. Biostatistics</b>	Harvard University	2019 <sup>1</sup>
	<b>M.S. Mathematics &amp; Statistics</b>	Georgetown University	2013
	<b>B.S. Biology, <i>magna cum laude</i></b>	Washington & Lee University	2007
<b>SKILLS</b>	<b>Python, R, SQL, Stan</b> - highly proficient <b>Linux/shell, L<sup>A</sup>T<sub>E</sub>X, Git, Stata</b> - proficient		
<b>PUBLICATIONS</b>	Townes, W. 2010. Seed dispersal of the genus <i>Leea</i> in forest patches of Bataan, Philippines. <i>Ecotropica</i>		
<b>SUBMITTED</b>	Valeri, L., Patterson-Lomba, O., Gurmu, Y., Abloh, A., Bobb, J., Townes, W., Harling, G. 2016. Predicting subnational Ebola virus disease epidemic dynamics from sociodemographic indicators		
<b>IN PROGRESS</b>	Townes, W., Hicks, S., Aryee, M., Irizarry, R. Factor Analysis with Dropout		
<b>EXPERIENCE</b>	<b>Teaching Assistant</b> <i>Harvard School of Public Health, Boston, MA</i> 2016-present Various introductory/intermediate Biostatistics courses.		
	<b>Test Engineer</b> <i>SRA International, Arlington, VA</i> 2011-2014 Automated testing of web services for the Energy Star Qualified Products Exchange.		
	<b>Software Analyst</b> <i>Perrin Quarles Associates, Charlottesville, VA</i> 2008-2010 Supported development of the US Environmental Protection Agency’s National Emissions Inventory System.		
	<b>Fulbright Scholar</b> <i>Philippines</i> 2007-2008 Conducted independent forest ecology research while living in an indigenous <i>Aeta</i> community in Bataan Province. Presented results to faculty and students at University of Philippines-Diliman. Traveled to Hong Kong, Singapore, Malaysia, and Thailand.		
<b>FUNDING</b>	<b>NSF-CBMS Travel Award</b> <i>Topology, Geometry, and Statistics</i> 2016 <a href="https://stat.utexas.edu/training/cbms-2016">https://stat.utexas.edu/training/cbms-2016</a>		
	<b>NIH T32 Training Grant</b> <i>Clinical Epidemiology of Lung Diseases</i> 2014-2016 Coordinator: Dr. Scott Weiss, Channing Network Medicine, Brigham and Women’s Hospital.		
<b>LANGUAGES</b>	Spanish (intermediate), Brazilian Portuguese (basic), Tagalog/Filipino (rusty)		

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<sup>1</sup>anticipated