F. William (Will) Townes

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SUMMARY

I am a Ph.D. student in Biostatistics at Harvard University focusing on Bayesian methods for large scale 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.

EDUCATION

Ph.D. Biostatistics	Harvard University	2019[1]
A.M. Biostatistics	Harvard University	2016
M.S. Mathematics & Statistics	Georgetown University	2013
B.S. Biology, *magna cum laude*	Washington & Lee University	2007

SKILLS

Python, R, SQL, Stan - highly proficient

Linux/shell, LaTeX, Git, Stata - proficient

PUBLICATIONS

Valeri, L., Patterson-Lomba, O., Gurmu, Y., Ablorh, A., Bobb, J., Townes, W., Harling, G. 2016. Predicting subnational Ebola virus disease epidemic dynamics from sociodemographic indicators. *PLOS One*[2]

Townes, W. 2010. Seed dispersal of the genus *Leea* in forest patches of Bataan, Philippines. *Ecotropica*

IN PROGRESS

Townes, W., Hicks, S., Aryee, M., Irizarry, R. Factor Analysis with Dropout

EXPERIENCE

Teaching Assistant *Harvard School of Public Health, Boston, MA*   2016-present
Various introductory/intermediate Biostatistics courses.

Test Engineer *SRA International, Arlington, VA*   2011-2014
Automated testing of web services for the Energy Star Qualified Products Exchange.

Software Analyst *Perrin Quarles Associates, Charlottesville, VA*   2008-2010
Supported development of the US Environmental Protection Agency's National Emissions Inventory System.

Fulbright Scholar *Philippines*   2007-2008
Conducted independent forest ecology research while living in an indigenous *Aeta* community in Bataan Province. Presented results to faculty and students at University of Philippines-Diliman. Traveled to Hong Kong, Singapore, Malaysia, and Thailand.

FUNDING

NIH T32 Training Grant *Big Data to Knowledge*   2016-present
Coordinator: Dr. John Quackenbush, Dana-Farber Cancer Institute.

NSF-CBMS Travel Award *Topology, Geometry, and Statistics*   2016
https://stat.utexas.edu/training/cbms-2016

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[1]anticipated
[2]in press

NIH T32 Training Grant *Clinical Epidemiology of Lung Diseases*   *2014-2016*
Coordinator: Dr. Scott Weiss, Channing Network Medicine, Brigham and Women's Hospital.

LANGUAGES   Spanish (intermediate), Brazilian Portuguese (basic), Tagalog/Filipino (rusty)