

Benjamin E. Noland

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

Education

- **Rutgers University**, New Brunswick, NJ, September 2017-present
MS in statistics (in progress)
- **Rutgers University**, New Brunswick, NJ, September 2012-May 2016
BA in mathematics, minor in physics (*cum laude*)
School of Arts and Sciences Honors Program

Skills

Statistics and data analysis skills:

- Knowledge of statistical theory (classical and some Bayesian).
- Knowledge of a variety of modeling techniques (for both inference and prediction).
 - Generalized linear models (e.g., OLS, logistic, and Poisson regression).
 - Penalized linear regression methods (ridge regression and the LASSO).
 - Classification methods (e.g., logistic regression, LDA, QDA, KNN).
 - Bootstrapping methods.
 - Unsupervised techniques (e.g., clustering methods and PCA).
 - Others (e.g., spline methods, tree-based methods, and SVMs).
- Proficient in data processing using R (including data wrangling, modeling, and visualization).
- Some experience with Stata, as well as some with SciPy/Jupyter.

Computer skills:

- **Proficient with:** R, Python, C, Java, L^AT_EX, Unix, Windows, Git, Microsoft Office (and similar tools)
- **Experience with:** Stata, SciPy/Jupyter, JavaScript (including JQuery), HTML, CSS, PHP, MySQL, x86 assembly language
- **GitHub account:** <https://github.com/bnoland>

Experience

Programming intern

Voorhees Transportation Center, Rutgers University, New Brunswick, NJ, June 2016-November 2016

- Designed and implemented R scripts to detect possible groups of riders in Citi Bike trip data. The latest versions of the scripts may be found at:

<https://github.com/bnoland/citibike>

- Implemented a website for visualizing the results of this study. The latest version may be found at:

<https://bnoland.github.io/citibike-map/>

Programming intern

Vertices, LLC, New Brunswick, NJ, May 2015-August 2015

- Worked on Mappler, an online geographic information system (GIS) tool. Designed and implemented a feature that allows users to upload images, extracts GPS data from the images, and adds them to the map database.
- Implemented a daemon for extracting images and associated GPS data from email accounts and adding them to a map database.

Programming intern

Voorhees Transportation Center, Rutgers University, New Brunswick, NJ, July 2014-August 2014

- Designed and implemented a website that maps crashes involving vehicles and pedestrians (including bicyclists) using data provided by the New Jersey Department of Transportation.
- The site allows the user to submit search queries to filter the data. The site can be found at:

<http://ppppolicy.rutgers.edu/vtcddata/pedestrian/pedmap.html>

Extracurricular Activities

Head of Computer Club

Princeton High School, Princeton, NJ, September 2009-February 2012

- Worked with club members towards developing a robot that could navigate a maze.
- Organized fundraising for the club.
- Taught other students the basics of programming.

Honors

- **2014 Rutgers Academic Excellence Award**, April 2014
- **Princeton High School Computer Science Award**, June 2012