Benjamin E. Noland

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Education

Rutgers University, New Brunswick, NJ, September 2012-May 2016 BA in mathematics, minor in physics School of Arts and Sciences Honors Program GPA: 3.525

Selection of coursework:

- Mathematics: Calculus, linear algebra, ordinary differential equations, real analysis, complex variables, differential geometry, linear programming, abstract algebra, topology (taken at Rutgers University)
- Physics: Classical mechanics, electromagnetism, astrophysics (taken at Rutgers University)
- Computer science: Systems programming, data structures and algorithms (taken at Princeton University while in high school)
- Statistics: Advanced Placement statistics (taken in high school)

Skills

Computer skills:

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

Additional skills:

- Probability theory and statistical inference (hypothesis testing, point estimation, regression, etc.)
- Data processing skills (using software packages such as R and Stata)

- Willingness and ability to learn things independently
- Intent to expand my knowledge and skills in mathematics, statistics, and programming

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.
- Partially 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://pppolicy.rutgers.edu/vtcdata/pedestrian/pedmap.html

Honors

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