Daniel L. Robertson

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EXPERIENCE

September 2014 - present
ORISE Fellow, *Centers for Disease Control and Prevention*

- Created a framework in `C++` using computer vision and machine learning techniques with object oriented design patterns to retrieve handwritten data from surveys
- Used web scraping techniques with `Python` and `MongoDB` to automate the quality control of data deliveries to the team
- Provided high quality data visualizations to aide in the analysis of data
- Maintained, secured, and configured team computers running on `Linux`

October 2013 - August 2014
Intern, *National Association of County and City Health Officials*

- Created reports and tools for the analysis of surveys in `R`
- Conducted an extensive longitudinal data analysis using `R`
- Used data visualization tools in Python to create geovisualizations for reports

December 2014 - April 2014
Intern, *Association of State and Territorial Health Officials*

- Synthesized data and current literature for reports
- Assisted in the creation of surveys

EDUCATION

2012 - 2012 **Master of Public Health in Epidemiology** *George Mason University*

2012 - 2014 **Graduate Certificate in Biostatistics** *George Mason University*

2007 - 2012 **Bachelor of Science in Community Health** *George Mason University*

Software

2015 - present
bfork
- Author of `bfork`, `https://cran.r-project.org/web/packages/bfork`, an `R` package for basic `Unix` process control. The package allows `R` users to quickly fork and manage child processes.

2015 - present
LibreOffice
- Submitted over 40 accepted patches to the LibreOffice core

Languages **C/C++, Python, Scala, SQL, R, Bash, LaTeX**

CONFERENCE & POSTER PRESENTATIONS

September 22, 2015
Daniel L. Robertson, Jin-Mann S. Lin. Application of computer vision and machine learning to public health data validation. CDC/ATSDR Statistics Day. Atlanta, GA

August 26, 2015
Daniel L. Robertson, Kathryn H. Jacobsen, Heibatollah Baghi. Hunter-killed deer as a predictor of notifiable disease rates for Lyme disease and Babesiosis in New Jersey Counties, 1997 to 2013. International Conference on Emerging Infectious Diseases. Atlanta, GA

HONORS

2014 **Delta Omega Honorary Society in Public Health**, *Gamma Tau Chapter*

2014 **Phi Kappa Phi Honors Society**

2014 **GMU Graduate Service and Leadership Award**