

# Daniel L. Robertson

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<http://danrobertson.org>

<https://github.com/dlrobertson>

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## EXPERIENCE

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| May<br>2016       | - present        | <b>Software Engineer</b> , <i>Tripwire</i> <ul style="list-style-type: none"><li>• Come back later to find out!</li></ul>  |
| September<br>2014 | - May<br>2016    | <b>ORISE Fellow</b> , <i>Centers for Disease Control and Prevention</i> <ul style="list-style-type: none"><li>• Created a library in <b>C++</b> using computer vision and machine learning techniques with object oriented design patterns to retrieve handwritten data from surveys</li><li>• Used web scraping techniques with <b>Python</b> and <b>MongoDB</b> to automate the quality control of data deliveries to the team</li><li>• Provided high quality data visualizations to aide in the analysis of data</li><li>• Maintained, secured, and configured team computers running <b>Linux</b></li></ul> |
| October<br>2013   | - August<br>2014 | <b>Intern</b> , <i>National Association of County and City Health Officials</i> <ul style="list-style-type: none"><li>• Created reports and tools for the analysis of surveys in <b>R</b></li><li>• Used data visualization tools in <b>Python</b> to create geovisualizations for reports</li></ul>   |

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## Open Source Software

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| 2017 | <b>Sylkie</b> - Author <ul style="list-style-type: none"><li>• Tool for IPv6 address spoofing with the Neighbor Discovery Protocol</li></ul>   |
| 2016 | <b>Servo</b> - Contributor <ul style="list-style-type: none"><li>• Contributed to various components of the servo browser engine while focusing on work pertaining to the IPC implementation used</li></ul>            |
| 2015 | <b>LibreOffice</b> - Contributor <ul style="list-style-type: none"><li>• Used template metaprogramming and various features of <b>c++11</b> to enhance the readability and performance of various components</li></ul> |

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## Languages & Skills

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Rust, C/C++, Python, Scala, SQL, x86 Assembly,  $\text{\LaTeX}$

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## EDUCATION

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| 2012 - | 2014 | <b>Master of Public Health in Epidemiology</b> <i>George Mason University</i> |
| 2012 - | 2014 | <b>Graduate Certificate in Biostatistics</b> <i>George Mason University</i>   |
| 2007 - | 2012 | <b>Bachelor of Science in Community Health</b> <i>George Mason University</i> |

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## CONFERENCE & POSTER PRESENTATIONS

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|--------------------|--|
| 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 |

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## HONORS

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| 2014 | <b>Delta Omega Honorary Society in Public Health</b> , <i>Gamma Tau Chapter</i> |
| 2014 | <b>Phi Kappa Phi Honors Society</b>   |
| 2014 | <b>GMU Graduate Service and Leadership Award</b>                                |