

Carson Sievert

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Education

- Ph.D. in Statistics, Iowa State University (2016)
 - **Thesis:** [Interfacing R with Web Technologies for Interactive Graphics and Computing with Data](#)
- M.S. in Statistics, Iowa State University (2013)
- Double B.A. in Mathematics & Economics, Saint John's University (2010)

Experience

CEO, [Sievert Consulting LLC](#). May 2015 - Present

- Maintainer of the R package [plotly](#) for creating interactive web graphics. Authored the [plotly book](#) which provides an overview of the project.
- Created the R package [plotdap](#) for easy visualization of spatio-temporal data from NOAA servers.
- Created the R package [bcviz](#) for visualizing Canadian housing/census data.
- Created the R package [zikar](#) for monitoring Zika virus disease outbreak.

Research Assistant, [Monash University](#). September 2015 - May 2016

- Advise honours student research and present workshops on data science in R.

Software Developer, [Google Summer of Code](#). Summers 2014-2017

- Served as a student in summer 2014 and a mentor in subsequent years for [animint](#); an R package for creating interactive web graphics.

Research Intern, [Statistics Research Department at AT&T Labs](#). Summer 2013

- Authored the R package [LDAvis](#) with [Kenny Shirley](#).

Lecturer/TA, [Iowa State University](#). Aug. 2011 - May 2015

- Instructor for the online version of 'Intro to Business Statistics' (Summer 2014 onwards).
- Course instructor for [Intro to Business Statistics](#). (Fall 2012 - Spring 2014)
- Teaching Assistant for [Statistical Methods for Research Workers](#). (Summer 2012)
- Grading supervisor for Intro to Business Statistics. (Fall 2011 & Spring 2012)

Publications

Journal Articles

- Tal Galili, Alan O'Callaghan, Jonathan Sidi, Carson Sievert (2017); [heatmaply](#): an R package for creating interactive cluster heatmaps for online publishing, *Bioinformatics*, <https://doi.org/10.1093/bioinformatics/btx657>
- Carson Sievert (2014). [Taming PITCHf/x Data with pitchRx and XML2R](#). *The R Journal*. 6(1).

Workshop Papers

- Carson Sievert and Kenny Shirley (2014). [LDAvis: A Method for Visualizing and Interpreting Topics](#). *Workshop on Interactive Language Learning, Visualization, and Interfaces at the Association for Computational Linguistics*. Baltimore, Maryland, 2014.

Book Chapters

- Carson Sievert and Brian Mills (2017). “Using Publicly Available Baseball Data to Measure and Evaluate Pitching Performance” in [Handbook of Statistical Methods and Analyses in Sports](#), edited by Jim Albert, Mark E. Glickman, Tim B. Swartz, and Ruud H. Koning. Chapman & Hall/CRC. ISBN 9781498737364. ([preprint](#))

Manuscripts

- Carson Sievert (2016). [plotly for R](#).
- Carson Sievert (2016). [Interactive data visualization on the web using R](#).
- Carson Sievert, Toby Dylan Hocking, and Susan VanderPlas (2015). [Animint: A Grammar for Interactive Animations](#)

Talks

Please see <https://talks.cpsievert.me>

Workshops

Please see <https://workshops.cpsievert.me>

Honors/Awards

- 2017 [John Chambers award](#) winner
- Invited participant of [2016 rOpenSci Unconference Australia](#).
- Awarded first place in the [2014 statistical graphics video competition](#) for [this submission](#).
- Invited participant of the [2014 rOpenSci hackathon](#) (see my [blog post](#))
- Invited member of the National Mathematics Honor Society - Pi Mu Epsilon
- Invited member of the Economics Honor Society - Omicron Kappa Sigma
- President’s scholar and Dean’s List recipient