

# 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

**Software Engineer**, [RStudio](#) October 2019 - Present

- Member of the shiny core development team. Contribute to many important R packages, such as [shiny](#), [shinytest](#), [shinymeta](#), [plotly](#), and more.

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

- Develop scientific software for organizations such as plotly, NOAA, and Sandia National Labs.

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

- Advised 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

- Carson Sievert, Susan VanderPlas, Jun Cai, Kevin Ferris, Faizan Uddin Fahad Khan & Toby Dylan Hocking (2019) Extending ggplot2 for Linked and Animated Web Graphics, *Journal of Computational and Graphical Statistics*, 28:2, 299-308, DOI: 10.1080/10618600.2018.1513367.
- 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 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.
- Carson Sievert (2014). [Taming PITCHf/x Data with pitchRx and XML2R](#). *The R Journal*. 6(1).

## Books

- Carson Sievert (2019). *Interactive web-based data visualization with R, plotly, and shiny*. Chapman & Hall. In preparation. <https://plotly-r.com>.

## 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](#))

## 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