

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](#). Sept 2018 - Present

Develop software and write documentation to make the Shiny (<https://shiny.rstudio.com/>) and R Markdown (<https://rmarkdown.rstudio.com>) ecosystem even better tools for doing data science in R.

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

Deliver websites and develop software so clients can more easily:

- Explore association between mental disorders and medical conditions <https://como-gmc.cpsievert.me>, mortality <https://ncrr-au.shinyapps.io/como-mortality>, and the economy <https://csievert.shinyapps.io/mental-cost>
- Explore the societal impact of COVID-19 in North Carolina <https://carolinatracker.unc.edu/tracker>
- Explore NOAA's spatio-temporal data <https://github.com/ropensci/plotdap>
- Explore Canada's housing markets and census data <https://github.com/cpsievert/housing-data-challenge-plotly>
- Explore the Zika virus outbreak <https://github.com/cpsievert/zikar>
- Create interactive web graphics from R <https://plotly-r.com>

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

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

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

- Course instructor for [Intro to Business Statistics](#).

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](#).

Publications

Books

- Carson Sievert (2020): Interactive web-based data visualization with R, plotly, and shiny. *Chapman and Hall/CRC*, <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](#). Chapman & Hall/CRC. ISBN 9781498737364.

Journal articles

- Natalie C. Momen et al. (2020): Association between Mental Disorders and Subsequent Medical Conditions. *New England Journal of Medicine* <https://doi.org/10.1056/NEJMoa1915784>.
- Carson Sievert et al. (2019): Extending ggplot2 for Linked and Animated Web Graphics. *Journal of Computational and Graphical Statistics* <https://doi.org/10.1080/10618600.2018.1513367>.
- Tal Galili et al. (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*. <http://nlp.stanford.edu/events/illvi2014/papers/sievert-illvi2014.pdf>.
- Carson Sievert (2014): Taming PITCHf/x Data with pitchRx and XML2R. *The R Journal* <http://journal.r-project.org/archive/2014-1/sievert.pdf>.

Talks

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

Workshops

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

Software

Please see <https://github.com/cpsievert>.

Service

- 2021 Program Chair-Elect, Section on Statistical Graphics, American Statistical Association.

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