# Profile

I am a statistician, data scientist, and R programmer with problem-solving, critical thinking, and communication skills. I carefully clarify and articulate project goals, process data with tidyverse packages, conduct appropriate statistical analysis, create visuals with ggplot2, write reports with R Markdown and LaTeX, and present results with Beamer slides.

# Experience

Data Scientist, Open Data Group — 9/2017—Present

* Predict mechanical failure probabilities with survival analysis decision trees
* Predict macroeconomic indicators with ARIMA time series modeling
* Clean, process, and wrangle messy big data with tidyverse packages
* Scrape web data with rvest, http, jsonlite, etc.
* Develop R packages for clients, using devtools, roxygen2
* Write R Markdown reports, give LaTeX Beamer presentations
* Develop R SDK components for use with ODG software REST API
* Conduct literature reviews of latest machine learning techniques

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Chris comiskey, phd

* Use Git, GitHub, Bash, MySQL, Python, HTML, Docker

Research, Oregon State University — 2013—2017

* Developed variable-resolution heat maps for spatial data
* Developed R package varyres for implementing variable-resolution heat maps
* Developed interactive heat map confidence intervals for spatial estimators
* Developed R package mapapp to create interactive heat map confidence intervals with RStudio’s Shiny
* Modeled spatially correlated Bernoulli random variables with logistic regression and Gaussian Random Fields
* Estimated “Effective Sample Size” for hydrologic AR(1) time series

Teaching — CCD, 2010–2011 — OSU, 2012–2017

* Developmental Math Instructor at the Community College of Denver
* Graduate Teaching Assistant, OSU Statistics Department
* Consulting, OSU Student Consulting Services
* Course development, OSU Data Analytics M.S.

# Education

PhD, Statistics — 2017

* Oregon State University

M.S. Statistics — 2014

* Oregon State University

B.S. Mathematics — 2017

* Graduate Teaching Assistant, OSU Statistics Department

# Skills

* Additional Statstical Analysis
  + Bayesian methodologies, including hierarchical models
  + Generalized linear models, including logistic regression
  + Design and analysis of experiments
  + Survival Analysis, including Cox Proportional-Hazard models
  + Time series, including ARIMA models
  + Machine learning, including classification with decision trees
  + Graphics, plots, and visualizations with ggplot2
* Additional R programming
* stringr, readr for string manipulation
* lubridate for working with dates
* rstan for Bayesian modeling
* fields for spatial statistics
* spBayes for spatial Bayesian modeling
* INLA for numerical approximations in Bayesian modeling
* rpart, LTRCtrees for survival analysis trees

# References

* + [Alix Gitelman](https://stat.oregonstate.edu/content/gitelman-alix)
  + [Charlotte Wickham](http://www.cwick.co.nz/)

# Websites

* + https://cwcomiskey.github.io/
  + https://www.linkedin.com/in/cwcomiskey/