
CHRIS COMISKEY, PHD

+1 303 638 2401
cwcomiskey@gmail.com

527 NW 15TH ST
Corvallis, OR
97330

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
- 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.
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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 Statistical 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](#)
- [Charlotte Wickham](#)

Websites

- <https://cwcomiskey.github.io/>
 - <https://www.linkedin.com/in/cwcomiskey/>
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