

# Cory K Costello, PhD

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## Technical skills

- **Programming Languages:**
  - Expertise in R (incl. tidyverse, ggplot2, lme4, lavaan, caret) and Markdown.
  - Proficiency in SQL, Git, Python, HTML, CSS.
- **Data Science:**
  - Expertise in reproducible pipelines for cleaning, visualizing, analyzing, and reporting analyses.
  - Proficiency in webscraping, accessing data from APIs, working with large complex datasets.
  - Experience creating open source statistical libraries (for R).
- **Statistical Modeling:**
  - Expertise in Linear and Logistic Regression (incl. penalized), longitudinal data analysis and time series, Mixed Effects Modeling, Structural Equation Modeling, Supervised and Unsupervised Machine Learning, Social Network Analysis, & Natural Language Processing.
- **Research Approaches:**
  - Expertise in experimental (A/B testing), quasi-experimental, survey-based, and data scientific methods. Causal inference in experimental and non-experimental designs.
- **Managing** several simultaneous projects and supervising small teams of researchers.

## Experience

### Postdoctoral Fellow in Emotion and Self-Control Lab

2020 - Present

*University of Michigan, Ann Arbor, MI*

- Examined emotions in online social networks and offline in daily life using mixed-methods.
- Designed research materials; planned, executed, reported analyses; mentored junior colleagues.

### Graduate Employee

2014 - 2020

*University of Oregon, Eugene, OR*

- **Teaching Fellow** for several courses; graduate-level statistics; *R Bootcamp* for incoming PhD students.
  - Designed and led instructional labs in statistics and statistical programming.
  - Disseminated surveys examining students' experience & perceived gaps in statistics coursework.
  - Leveraged survey data to spearhead greater emphasis on programming and data science skills
  - Engaged administration to fund an annual R Bootcamp which I created and implemented.
- **Research Fellow** NIH & NSF funded projects on psychology & Online Social Networks.
  - Designed research materials (e.g., surveys), recruited subjects, analyzed data, and reported results.
  - Resulted in several publications and professional presentations.
  - Combined quantitative (prediction-focused) and qualitative (explanation-focused) methods.

### Graduate Research assistant

2012 - 2014

*Wake Forest University, Winston-Salem, NC*

- Cleaned and analyzed data, designed research materials, and communicated findings.

## Education

### Ph.D. Psychology, University of Oregon

2020

Dissertation: *Human and Computerized Inferences from Digital Footprints on Twitter*

### M.A. Psychology, Wake Forest University

2014

Does the Motive Matter? The Role of Intended Effects in Characterizing Actions and Inferring Personality Traits

### B.A. Psychology, New College of Florida (The Honors College of Florida)

2012

The Effects of Attachment Priming on Anxiety Sensitivity and Drinking Motives

*see 5-page CV for more detail*