

# Cory K Costello, PhD

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## Technical skills

- **Programming Languages & Other Tools:**
  - Expertise in R, SQL, Git, Python, Markdown, Databricks, and Tableau.
- **Statistical Modeling:**
  - Expertise in GLM (incl. penalized), Mixed Effects Modeling, Supervised and Unsupervised Machine Learning, Social Network Analysis, & Natural Language Processing.
- **Research Approaches:**
  - Expertise in experimental, quasi-experimental, and survey-based methodology. Causal inference in experimental and non-experimental designs.
- **Experience Managing** several simultaneous projects and supervising small teams of researchers.

## Experience

### Predictive Modeler

2023 - present

FCCI Insurance Group, Sarasota, FL (Hybrid)

- Built pricing tools using machine learning for multiple lines of business (Workers Comp, Commercial Auto) improving profitability for hundreds of millions in premium.
- Pulled data, engineered features, trained models, evaluated performance, and provided overviews of new models to technical and non-technical colleagues.

### Senior Data Scientist

2021 - 2023

Nielsen Corporation, Oldsmar, FL (Remote)

- Worked with cross-functional partners to make data-driven recommendations for product improvement.
- Designed surveys, conducted statistical testing, and created dashboards to monitor KPIs.

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

2020 - 2021

University of Michigan, Ann Arbor, MI

- Conducted survey-based quantitative research on Emotions and Online Social Networks; 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.
  - Leveraged student surveys to spearhead greater emphasis on programming and data science skills; included securing funds for an annual R Bootcamp which I created and implemented.
- **Research Fellow** NIH & NSF funded projects on predicting psychological traits and states from Online Social Network data.
  - Designed research materials (e.g., surveys), recruited subjects, analyzed data, and reported results.
  - Resulted in several publications and professional presentations.

## 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

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

2012