

# DATA ANALYST & RESEARCH SCIENTIST

## MELISSA MAZZO

Left-brain  
analytics.

Right-brain  
creativity.



A unique  
combination.

While I may have a background in human physiology, I am eager to translate my PhD-level critical thinking to a career combining data analytics, communication and visualization where my skills will make tangible contributions to a company's goals. I am a self-learner who likes to roll up her sleeves to crack a tough coding challenge, loves opportunities for innovative problem solving, and creating novel data visualizations and information graphics as the key to translating difficult scientific concepts to a wider audience.

## WORK HISTORY

2017-  
2021

RESEARCH SCIENTIST & DATA ANALYST  
University of Colorado Boulder

### Neurophysiology of Movement Lab

- Authored peer-reviewed scientific articles with an emphasis on data visualization
- Built and maintained codebase for all research projects
- Created robust signal processing programs to analyze the activity of thousands of neurons controlling multiple muscles in the human lower leg
- Modeled the structure of neural command by time-series and frequency-domain analyses of neuronal activity and conducted statistical testing on outcomes
- Mentored students and taught an introduction to R and MATLAB for data analysis and visualization, code review and editing, research methods and critical thinking.

2015-  
2017

RESEARCH ASSISTANT  
University of Colorado Boulder

### Integrative Physiology of Aging Lab

- Coordinated large-scale clinical trials investigating the effects of behavioral and pharmaceutical interventions on measures of health and physiological function
- Set up, maintained, and authored standardized operating procedure documents for using testing equipment for physiological measures including metabolism, motor function, exercise capacity, and accelerometry
- Designed and implemented research study protocols within a secure research electronic data capture system

2017-  
2018

DATA CONSULTANT  
Providence Medical Technology

- Synthesized scientific literature to create a detailed roadmap for upcoming clinical trials.
- Extracted relevant data from clinical trial databases and translated principal findings for strategy advising

2018-  
2019

FREELANCE JOURNALIST  
Pocket Outdoor Media

- 5-article series "Atlanta or Bust" chronicling the journey of Boulder Track Club athletes aspiring to qualify for the Olympic-trials marathon in 2020

2015-  
2021

GRADUATE TEACHING ASSISTANT  
University of Colorado Boulder

- Taught undergraduate lecture and laboratory courses in neurophysiology, exercise physiology, scientific writing, physiology, and nutrition.

## CONTACT

PHONE 585-520-2207

EMAIL [melissarosemazzo@gmail.com](mailto:melissarosemazzo@gmail.com)

LINKEDIN



WEBPAGE



TABLEAU



## SOFTWARE SKILLS

### DATA ANALYTICS

R  
PYTHON  
MATLAB  
SQL

### DATA VISUALIZATION

ILLUSTRATOR  
TABLEAU  
GGPLOT2  
PHOTOSHOP

### OTHER

MICROSOFT OFFICE

## EDUCATION

### DOCTOR OF PHILOSOPHY

University of Colorado Boulder  
2017 - 2021

### MASTER OF SCIENCE

University of Colorado Boulder  
2015 - 2017

### BACHELOR OF ARTS

University of Delaware  
2011 - 2015