# LAUREN CAPPIELLO

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## EDUCATION

**Ph.D., Applied Statistics**                                June 2020 (expected)
University of California, Riverside
Thesis: *Applied Machine Learning Methods in Adjusting for Population Differences*

**M.S., Statistics**                                                    June 2018
University of California, Riverside

**B.S., Statistics, summa cum laude**                                   June 2016
University of California, Riverside
Thesis: *A Novel Estimation Technique for a Five-Parameter Bivariate Beta Distribution*

## HONORS AND AWARDS

**Outstanding Statistical Consultation Award and Recognition**
University of California, Riverside Statistics Department                June 2018

## FELLOWSHIPS AND GRANTS

**Chancellor's Distinguished Fellowship**
University of California, Riverside                                September 2016

## PUBLICATIONS

L Cappiello, C Shen, X Cui, & Z Zhang. 'Adjusting for Population Differences Using Machine Learning Methods'. *In preparation.*

## CONFERENCES AND TALKS

L Cappiello, X Cui, & Z Zhang. (2020) 'Applied Machine Learning Methods in Adjusting for Population Differences'. Student research talk at the Orange County Biostatistics Symposium in Irvine, California.

Cappiello, L. & Flegal, J. (2016) "A Novel Estimation Technique for a Five-Parameter Bivariate Beta Distribution". Poster presented at the International Biometric Society Eastern North American Region Meeting in Austin, Texas.

## TEACHING

**University of California, Riverside**                  September 2017 – ongoing
**Instructor on Record**
· Introduction to Statistics I (Summer 2019)
· Introduction to Statistics II (Fall 2019)

**Online Course Development**
· Helped build fully online versions of introductory statistics courses.
· Revamped existing course structure to suit an online learning environment.
· Planned and filmed video lectures using Learning Glass technology.

**Teaching Assistant**
· Introduction to Statistical Computing (Fall 2017, Summer 2019)
· Statistical Computer Packages (Summer 2019)
· Nonparametric Techniques (Winter 2018)
· Introduction to Quality Improvements (Spring 2018)
· Introduction to Statistics (Winter 2018, Spring 2018)

## CONSULTING

**Lead Consultant**                                    July 2018 – June 2019
Graduate Quantitative Methods Center at UC Riverside              Riverside, CA
· Provided statistical and computational consultations to graduate students and postdoctoral
  researchers from across campus.
· Developed and presented workshops and departmental seminars on statistics and statistical
  computing.
· Piloted the instructional labs program.
· Supervised and managed a team of part time consultants.

Consultation types offered:

  Basic Statistics, Advanced Statistics, Nonparametric Methods, Mathematics, Mathematical Statistics and Probability Theory, Experimental Design, Data Mining, Machine Learning, LaTeX, SAS, R

Workshops and instructional labs:

  Introduction to Statistical Inference, Introduction to ANOVA, Introduction to Programming, Introduction to Multilevel Modeling, Introduction to SAS, Introduction to R, Intermediate Topics in R, Overview of Causal Inference, Improving Research Credibility, Writing Articles in LaTeX, The UCR LaTeX Dissertation Template, Experimental Design

## UNIVERSITY SERVICE

**Graduate Student Ambassador**                        October 2019 – ongoing
College of Natural and Agricultural Sciences                     Riverside, CA

**President, Statistics Graduate Student Association**      April 2019 – ongoing
University of California, Riverside                              Riverside, CA
· Created a graduate student seminar to give graduate students the opportunity to showcase
  their work.
· Created a departmental newsletter.
· Connected with our undergraduates to help them better prepare for DataFest competitions.
· Set up a variety of social events to foster a stronger sense of community.

· Administered and reported on a graduate student climate survey.

**President, Mu Sigma Rho**                               September 2018 – ongoing
University of California, Riverside                             Riverside, CA

**Secretary, Mu Sigma Rho**                            June 2017 – August 2018
University of California, Riverside                             Riverside, CA

## COMMUNITY OUTREACH

**Science Network Program Mentee**               February 2019 – September 2019
Union of Concerned Scientists                                 Remote
· Competitive yearly program that pairs early career scientists with more established scientist mentors.
· Worked on community science education strategies in the area of data literacy.

**Resource - Request a Woman Scientist**                May 2018 – ongoing
500 Women Scientists

**Lead Organizer**                               January 2017 – April 2017
Inland Empire for Science                                   Riverside, CA
· Spearheaded and managed the organization of the March for Science, Riverside
· Coordinated an approximately 2000 person public event designed to emphasize the importance of science in the community
· Raised $1200 for donation to the National Center for Science Education

## ONLINE PUBLICATIONS

*Untitled.* (Expected publication February 2020) Union of Concerned Scientists blog.

"Learning to Love Statistics" (2018) University of California, Riverside Graduate Student Resource Center blog.

## REFERENCES

**Zhiwei Zhang**
Mathematical Statistician, National Cancer Institute         9609 Medical Center Dr.
(240) 276-6787                       Biometric Research Program/DCTD/NCI
zhiwei.zhang@ucr.edu                            Bethesda, MD 20892

**James Flegal**
Associate Professor, UC Riverside Department of Statistics     900 University Ave.
(951) 827-2247                                1428 Olmsted Hall
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**Yelda Serin**
Graduate Quantitative Methods Center Coordinator        900 University Ave.
(951) 827-4291                                  1425 Life Sciences
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**Linda Penas**

Lecturer and TA Supervisor, UC Riverside Department of Statistics     900 University Ave.

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