

LAUREN CAPPIELLO

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EDUCATION

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

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, Z Zhang, C Shen; N Butala, X Cui, & R Yeh. "Adjusting for Population Differences Using Machine Learning Methods". *In review*.

CONFERENCES AND TALKS

L Cappiello, X Cui, & Z Zhang. (2020) "Applied Machine Learning Methods in Adjusting for Population Differences". Invited student research talk at the Orange County Biostatistics Symposium in Irvine, California. *Symposium postponed due to COVID-19*.

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 – December 2019
Instructor on Record

- Introduction to Statistics I
- Introduction to Statistics II

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
- Statistical Computer Packages
- Nonparametric Techniques
- Introduction to Quality Improvements
- Introduction to Statistics

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, Department of Statistics

October 2019 – ongoing

University of California, Riverside

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.
- 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. (Accepted September 2019) 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

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