Emilie Campos

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PROFESSIONAL SUMMARY

UCLA Masters student in Biostatistics with a strong background in Mathematics and speaking to non-technical audiences. Strong in R programming and making detailed presentations. Seeking an interesting opportunity to apply technical background to real world.

EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES | MS in Biostatistics
Earned June 2019 | Los Angeles, CA · Cum. GPA: 4.0

- Individual Project, Statistical Computing: Used SAS and R to analyze a dataset of behavioral screening questionnaire answers for children. Converted a wide data set to longitudinal in order to find summary statistics. Used R to simulate similar data and wrote a function to explore how sample size and proportion of missing completely at random values affected significance.

CAL POLY, POMONA | BS in Applied Mathematics and Statistics
Earned December 2016 | Pomona, California · Cum. GPA: 3.8

- Individual Project, Bayesian Data Analysis, Math Dept: Used R and Bayesian techniques to estimate the proportion of voters who voted for a fictional candidate
- Group Leader, Statisical Consulting, Math Dept: Consulted a graduate student who was investigating the effects of various diet treatments, ages, and exposure times on the egg loads of wasps. The wasps were preying on an arachnid responsible for killing citrus trees. We used several regression techniques with and without the zero egg loads, including a zero-inflated poisson model.
- Team Member, Statisical Consulting, Math Dept: Consulted a committee in the English Dept at CPP on whether certain evaluation techniques impacted student success. Used small samples from each college, gender, and under-represented minority status to find where improvements in intervention could be made. While we found few significant differences, it allowed the professors to focus their time.
- Treasurer for Society for Industrial and Applied Mathematics (SIAM): managed finances for planned meetings, trips, and guest speakers; facilitated panels aimed at encouraging undergraduates to pursue graduate degrees

PUBLICATIONS

1. Campos, E., Hazlett C., Tan P., Truong H., Loo S., Distefano C., Jeste S., Senturk D. (Under review 2019) Principle ERP Reduction and analysis: Estimating and using principle ERP waveforms underlying ERPs across tasks, subjects, and electrodes. NeuroImage.

EXPERIENCE

UCLA | Teaching Assistant & Graduate Student Researcher
January 2018 - present | Los Angeles, CA

- Teaching assistant: Lead labs in Introduction to Biostatistics for undergraduates in biological fields and nursing and labs in Introduction to Data Management and Statistical Computing for undergraduates and graduate students in computer science and biostatistics
- Researcher: Used principal and independent components analysis on functional data to develop an algorithm to estimate the canonical components underlying EEG signals across tasks, subjects, and electrodes. Analysis was done with simulations and with data supplied by the Semel Institute for Neuroscience and Human Behavior. This project necessitated collaboration across disciplines and effective communication.

CHAFFEY COLLEGE & MT. SAN ANTONIO COLLEGE | Tutor Expert & Supplemental Instruction
August 2013 - December 2017 | Rancho Cucamonga, CA

- Mentored new tutors, developing strategies to tutor students more effectively
- Assisted an Elementary Statistics professor in and out of the classroom by incorporating active learning techniques
- Tutored students both one-on-one and in small groups, encouraging a growth mindset towards mathematics, assisted physically and mentally disabled students
- Earned CRLA Level 1 Certification

AWARDS AND HONORS

2019	Abdelmonem A. Afifi Student Fellowship	UCLA
2019	Student Poster Award	Statistical Methods in Imaging Conference
2016	Summa Cum Laude	Cal Poly Pomona

SKILLS

ANALYTICAL

Statistics, Regression, Random Processes, Combinatorics, Sampling Theory and Applications, Modeling, Functional Data Analysis

COMPUTING

Getting and Cleaning Data, Cloud Computing R, SAS, STATA, LaTeX, Matlab, Git/Github