

Constanza Inez C. de Dios

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Summary

Cognitive neuroscientist with thorough hands-on experience in collecting and analyzing human electrophysiological and behavioral data. Proficient in experimental design and statistical analyses. Enthusiastic project collaborator dedicated to systematic and creative problem solving.

Highlights

- Design, code, and implementation of lab experiments with human participants
- Frequentist and Bayesian analyses of variance (ANOVA) and regression
- Effective instructor and speaker
- Data reduction and wrangling
- Fluent in R
- Basic proficiency in Matlab and SAS

Experience

Graduate Researcher and Instructor

September 2013 to Current

Cognitive Electrophysiology and Clinical Neuroscience Lab, Department of Psychology, University of South Florida, Tampa, FL

- Study the role of the dopaminergic reward system in attention using dense sensor-array electroencephalography (EEG)
- Signal-process a cumulative 120GB of EEG sensor data from 300 human participants over five separate experiments
- Analyze sensor data using principal components analyses (PCA), repeated-measures analyses of variance (ANOVA) and Bayes Factor
- Write R scripts to automate data visualization procedures, cutting time to complete procedures from four hours to thirty minutes
- Supervise undergraduate and graduate students in signal-processing 56GB electrophysiological data
- Created a football data visualization app on Shinyapps for a Data Mining Course with five graduate students (2015)
- Organized weekly department brownbag lectures (September 2014 to May 2015)
- Craft and deliver course lectures and learning assessments for 45 students every semester

Secretary and Data Analyst

January 2015 to May 2017

United Faculty of Florida-University of South Florida-Graduate Assistants United, Tampa, FL

- Organized and led monthly member meetings
- Gathered and performed summary statistics on fees data from state and university databases, resulting in an information packet distributed to 2,200 graduate students in the university
- Surveyed and collected data on healthcare, finances, and fees from 200 graduate students for bargaining sessions with university provosts

Education

Doctor of Philosophy, Psychology, University of South Florida, Tampa, FL 2019 (Anticipated)

Bachelor of Science, Psychology, St. Mary's College of California, Moraga, CA 2012