

# Shirley Feng

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## EDUCATION

University of California, San Diego (UCSD), San Diego, CA - expected June 2023

GPA: 3.97, Major GPA: 4.0

Bachelor of Science (B.S.) in Clinical Psychology

Bachelor of Science (B.S.) in Cognitive Behavioral Neuroscience

Honors thesis: *Resting-state Functional Connectivity Analysis of Repetitive Negative Thinking*

Senior thesis: *Sex Differences on Neural Correlates after Alcohol Intake*

Provost's Honors 2019 - 2023

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## RESEARCH EXPERIENCE

### **Stress and Neuroimaging Lab: University of California, San Diego**

**Research Assistant** | part-time (15 hours/week) | May 2022 - Present

*Principal Investigator:* Jessica Bomyea, Ph.D. & Katia Harle, Ph.D.

Assisted with a project investigating effectiveness of a computer-based treatment to reduce repetitive negative thinking among patients with mood, anxiety, and depressive symptoms.

- *Data entry lead:* entered 70+ data packets into RedCAP database, maintained data entry excel tracker to accurately reflect data status and questions, provided data summaries at weekly meetings, trained other students on data entry.
- *Recruitment lead:* performed regular recruitment activity checks, created flyer schedules and sent weekly reminders, maintained online recruitment postings, reviewed participant databases to identify potential participants.
- Used R and SPSS to clean, organize and analyze the data for conference abstracts.
- Used AFNI system to perform pre-processing on MRI data.
- Assisted with 20 fMRI scans set ups (3T Siemens scanners).
- Created a RedCap master data dictionary for 12 studies in excel.
- Administered computerized treatment tasks using E-Prime.
- Wrote R scripts to organize completed datasets, e.g., scoring of questionnaires and data cleaning.

### **Pacific Treatment and Research Center (Pac-TARC): University of California, San Diego**

**Research Assistant** | part-time (10 hours/week) | July 2022 - Present

*Principal Investigators:* Robert Anthenelli, M.D. & Benjamin McKenna, Ph.D.

Assisted with a project investigating sex differences in neurobiological mechanisms of alcohol sensitivity and tolerance.

- Performed motion correction on fMRI data by manually checking time points using AFNI.

- Measured vital signs, weight, height, and breath alcohol concentration using a breathalyzer; assisted with urine drug test and pregnancy test.
- Assisted with 5 fMRI scans on set ups (Siemens scanners).
- Conducted 20+ phone screenings of potential participants about alcohol and other drug use and general health history.
- Entered 10+ data packets into excel.

## University of California, San Diego

### *Honors Class Group Projects* | Jan 2022 - June 2022

Advisor: Emma Geller, Ph.D.

- PSYC 111A: Research Methods I - Correlation between binge drinking and neuroticism among college students.
- PSYC 111B: Research Methods II - Effect of Gender and Race on Competence Rating in Psychology.

## TEACHING EXPERIENCE

### University of California, San Diego

#### *Undergraduate Instructional Apprentice* | PSYC 60: Introduction to Statistics | Jan – March 2022

- Held office hours to explain quiz answers and demonstrate use of SPSS for class assignments.
- Helped students to review statistical concepts, tests procedures and theories.
- Provided feedback on exam drafts, proctor and grade exams.

## TECHNICAL SKILLS

- Statistical analysis using R, SPSS and Excel
- Task administration using E-Prime
- Navigating the AFNI system for MRI data preprocessing and analysis
- Create questionnaires in Qualtrics and Redcap
- Basic Programming in Python, MATLAB, and HTML/CSS

## CERTIFICATES

- CITI Good Clinical Practice
- CITI Biomedical Research - Basic Course
- Biosafety: Bloodborne Pathogens Training and Annual Refresher (UCSD)

## POSTER PUBLICATIONS

1. Rubin, M., McKenna, B., Miller, S., Schuckit, M., **Feng, S.**, Anthenelli, R. Preliminary findings of relationships among several measures of alcohol sensitivity and acute tolerance. Abstract accepted to Research Society on Alcohol, June 2023.
2. **Feng, S.**, Bomyea, J., Jimenez, E., Dugas, N. *Association between repetitive negative thinking and cognitive functions in adults with internalizing disorders.* Abstract accepted to Western Psychological Association, April 2023.