

## EDUCATION

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### **Bachelor of Science in Cognitive Science Minor in Neuroscience**

University of California, Los Angeles – Los Angeles, California

June 2015

## PROFESSIONAL EXPERIENCE

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### **Lab Manager**

*Stanford Social Neuroscience Lab, Jamil Zaki (PhD)*

July 2016 – Present  
*Stanford, California*

- Manage a team of 15 research assistants
- Coordinate lab events
- Maintain lab webpage
- Manage lab IRBs

### **Faculty Research Assistant**

*University of Maryland Neurocognitive Development Lab, Tracy Riggins (PhD)*

July 2015 – July 2016  
*College Park, Maryland*

- Led fMRI, EEG, and behavioral data collection for an NIH-funded longitudinal study examining the development of memory networks in early childhood
- Trained to operate and run MRI scans
- Trained in polysomnography equipment application used to assess sleep quality
- Recruited and scheduled participants and their family's for three-visit study
- Managed funds
- Interviewed, trained, and mentored 15 incoming undergraduate research assistants to assist in research
- Created and maintained lab webpage
- Assisted in data processing and analysis

### **Research Assistant**

*UCLA Brain Mapping Center, David Shattuck (PhD)*

March 2015 – July 2015  
*Los Angeles, California*

- Performed image analysis procedures for multimodal imaging data including structural, functional, and diffusion imaging datasets using BrainSuite
- Assisted in training collaborators, students, and staff in the use of BrainSuite for image analysis
- Maintained and updated software usage documentation on the BrainSuite software
- Acted as intermediate supervisor for ten undergraduate student researchers
- Supervised and trained undergraduate researchers to perform specific data analysis procedures, including usage of BrainSuite and other software, delineation of anatomical structures in biomedical imaging data, and data archival

### **Research Assistant**

*UCLA Mechanical and Aerospace Engineering Department, Yong Chen (PhD)*

June 2013 – February 2015  
*Los Angeles, California*

- Performed biological assays on a Polymeric Sequence Probe in order to better and more accurately diagnose breast cancer and HIV
- Independently optimized assay procedures with weekly meetings with supervisor
- Trained and supervised an undergraduate intern

## HONORS AND AWARDS

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### **Stanford Center for Cognitive and Neurobiological Imaging Seed Grant**

Internal grant for fMRI Project Proposal

March 2017

### **Travel Award**

Tools of the Trade Workshop at the Social and Affective Neuroscience Conference in Los Angeles

March 2017

## CONFERENCE PRESENTATIONS AND POSTERS

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Campanella, C., Canada K., **Clark, M.**, Mulligan, E., Geng, F., Spencer, R., & Riggins, T. (2017) *Preliminary Support for Maturational Links Between Memory, Sleep, and Hippocampal Development in Early to Middle Childhood*. To be presented at the Society for Research in Child Development Conference. Austin, TX.

Riggins, T., Zehra, A., **Clark, M.**, & Mulligan, E. (2016). *Relations between source memory and hippocampal volume in early childhood*. Poster presented at the Annual Meeting of Flux: The Society for Developmental Cognitive Neuroscience, St Louis, MO.

**Clark M**, Baker E, Jeste S. (2015) *Optimizing EEG Data Collection in Toddlers at Risk for Autism Spectrum Disorder*. Presented at Psychology Undergraduate Research Conference. University of California, Los Angeles.

**Clark M**, Yashmeh J, Nyguyen D, Razikeen A, Al-Sharif N, Fears S. (2014) *Genetic Investigation of Gyrification Index in the Prefrontal Cortex and its Heritability and Association with Bipolar Disorder I*. Poster presented at Neuroscience Poster Day. University of California, Los Angeles.

## VOLUNTARY EXPERIENCE

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**Fernald Center Intern** October 2014-July 2015  
*UCLA Fernald Center, Bruce Baker (PhD)* Los Angeles, California

- Selected as one of twelve interns to participate in a year long research course focused on research methods and psychopathology
- Coded parent interviews for emotionality of the parents' remarks expressed toward their child with or without intellectual disability

**Research Assistant** October 2014-July 2015  
*Semel Institute for Neuroscience and Human Behavior, Shafali Jeste (M.D.)* Los Angeles, California

- *Semel Institute for Neuroscience and Human Behavior, Shafali Jeste (M.D.)*
- Assist in EEG sessions for children at risk for developing Autism Spectrum Disorder aged 12-36 months undergoing parent mediated intervention
- Trained in 128-channel High Density EGI Geodesic Sensor Net placement
- Code videos of child's behavior in session to remove bad data due to inattention using NetStation software
- Research methodology for conducting EEG for children with delays to improve child experience and data acquisition
- Created pre-processing protocol to characterize quality of EEG recordings in order incorporate child behavior into various processing stages
- Reviewed literature on motor skills of children diagnosed with Autism Spectrum Disorder to provide foundational evidence to develop standardized motor assessment

**Research Assistant** January 2015-July 2015  
*UCLA Department of Psychology, Matt Lieberman (PhD)* Los Angeles, California

- Help with literature search, experimental design, stimuli creation, data collection and data analysis in Social Working Memory fMRI study
- MRI safety certified for UCLA Brain Mapping Center

**Student Volunteer** May 2012-June 2015  
*UCLA Department of Neurology, Scott Fears (M.D., PhD)* Los Angeles, California

- Conduct independent research on the association between gyrification index and heritability in relation to Bipolar Disorder for 527 human brains
- Supervise a team of four for labeling subcortical structures in structural MRIs of vervets
- Plan and conduct experiments for identifying neural correlates of Bipolar Disorder in humans

**Laboratory Assistant** January 2012 – September 2012  
*UCLA Department of Neurology, Rhonda Voskuhl (M.D.)* Los Angeles, California

- Helped study the role of sex chromosome complement in the CNS during autoimmune demyelinating disease using transgenic mouse model
- Performed immunohistochemistry to detect immune system antigens
- Monitored mice daily for EAE signs based on a standard EAE 0–5 scale scoring system

## TEACHING AND LEADERSHIP EXPERIENCE

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**Associate Director & Tutor** March 2016-July 2016  
*Georgetown Learning Centers* McLean, Virginia

- Tutored students aged 12-17 both individually and in groups of up to 10 students
- Subjects taught: SAT, ACT, Algebra 1, Geometry, Algebra 2, Trigonometry and Precalculus, AP Calculus AB, AP Statistics, AP Biology, AP Chemistry, Physics, AP English, and History.

**Teaching Assistant**

September 2014-July 2015

*MECH&AE M287 Nanoscience and Technology Class, Professor Yong Chen*

- Taught twenty undergraduate and graduate students biodetection methodology using antibody tagging
- Graded lab reports and quizzes

**Vice President Intellectual Development**

January 2013-January 2014

*Alpha Chi Omega Sorority**Alpha Psi Chapter Los Angeles, California*

- Monitored 130 member's GPAs and created incentives for improvement
- Coordinated quarterly networking events for UCLA staff and faculty
- Managed a committee of ten
- Participated as a member of the Executive Leadership Board

**SKILLS**

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- Experience with: fMRI data acquisition, MRI and diffusion imaging analysis (skullstripping, subcortical segmentation, tractography), EEG data acquisition, polysomnography data acquisition, aseptic techniques, immunohistochemistry, live mouse surgery certified
- Training in C++, bash, R, HTML, CSS, JavaScript, PHP, MySQL and SPSS
- Proficient user of Microsoft packages including PowerPoint, Word and Excel