

**Stephen Anthony Gonzalez**  
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## **Education**

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**University of Southern California (USC)** Fall 2018 - Spring 2019  
Master of Science in Neuroimaging and Informatics  
GPA: 3.5

**California State University, Fullerton (CSUF)** Fall 2014 - Spring 2018  
Bachelor of Arts in Psychology  
Overall GPA: 3.36  
CSUF GPA: 3.72

**Mount San Antonio College (Mt. Sac)** Fall 2009 - Spring 2014  
Associate of Arts of Psychology  
GPA: 3.07

## **Research Experience**

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**Stanford Graduate School of Education** Fall 2022 – present

Research Coordinator

Advisor: Dr. Bruce McCandliss

*Stanford University*

- Assisted with data collection, on adults and children, for various EEG systems including Wet Systems and Dry Mobile Headsets, including:
  - EGI's 128-channel HydroCel Sensor Net
  - Wearable Sensing's DSI-VR 300 & DSI-24
- Assisted in experimental design to maximize comfort and engagement of child participants
- Administered Cognitive Assessments on children and adults
- Programed experiments using MATLAB and in house software
- Prepare and implement experimental procedures
- Scheduled and coordinated experiments with research staff and participants
- Managed undergrad Research Assistants
- Managed and organized data on RedCap and DropBox
- Collaborated with schools and teachers to build a research practice partnership
- Assisted partner schools with Neuroscience education and engagement
- Trained and onboarded new Lab Members
- Maintained Lab Website

**Caltech Division of the Humanities and Social Sciences** Fall 2019 – Fall 2022

Research Technician Assistant

Advisor: Dr. Antonio Rangel

*California Institute of Technology*

- Performed data collection using EyeLink 1000 eye tracker

- Performed data quality control and statistical analysis
- Performed data entry, management, and organization
- Programmed Eye Tracking tasks using MATLAB and Psychtoolbox-3
- Visualized data using Statistical Software R

### **USC Neuroimaging and Informatics Institute**

Summer 2017 - Spring 2019

*Research Assistant*

Advisor: Dr. Kristi Clark

*University of Southern California*

- “Changes in the Reading Network of Dyslexia as Measured by Multimodal Imaging”
  - Implemented fMRI data preprocessing protocols using FSL and AFNI
  - Performed data quality control and statistical analysis
  - Performed data entry, management, and organization

### **Big Data Discovery and Diversity Research Education Advancement Program**

Spring 2017

*Scholar*

Advisor: Dr. Archana McEligot and Sam Behseta

*California State University, Fullerton*

- “You Are What You Eat: Folate and Depression”
  - Collaborated with faculty from Health Science and Mathematics to design a research project incorporating big data science techniques, such as data management and analysis.
  - Assess the relationship between folate and depression utilizing data from the National Health and Nutrition Examination Survey dataset

### **Goetz Evolutionary Psychology Lab**

July 2015 - May 2016

*Research Assistant*

Advisor: Dr. Aaron Goetz, Associate Professor of Psychology

*California State University, Fullerton*

- Performed literature review searches
- Assisted with data collection and experimental protocols
- Participated in discussion of research designs

### **Research methods in psychology course**

Fall 2013

*Student*

Advisor: Stacy Bacigalupi, Professor of Psychology

*Mt. San Antonio College*

- “Understanding Emotion: How gender plays an important role”
  - Worked with classmates to designed experimental research project examining how gender influences the interpretation of emotions and facial expressions.
  - Worked as a group to learn about the research process including reviewing relevant literature, collecting data, running analyses using SPSS, and writing a manuscript.

## **Professional and Technical Skills**

- Microsoft Word, PowerPoint, and Excel - Proficient capability
- Statistical Software R - Proficient at coding and writing scripts
- MATLAB – Proficient at programming tasks and data processing scripts
- EGI's 128-channel HydroCel Sensor Net – Proficient in Net application, Net Maintenance, and data collection procedures
- Mobile Dry EEG Systems – Wearable Sensing's DSI-VR 300 & DSI-24 – Combatant in set up and recording for data collection and demonstrations
- Administration, Quality Control, and Scoring of various Cognitive Assessments including:
  - Wechsler Abbreviated Scale of Intelligence - Second Edition (WASI-II; Wechsler, 2011)
  - Test of Word Reading Efficiency-Second Edition (TOWRE-2) – Sight Word Efficiency & Phonemic Decoding Efficiency
  - Test of Word Reading Efficiency-Second Edition (TOWRE-2) – Sight Word Efficiency & Phonemic Decoding Efficiency
  - Test of Silent Reading Efficiency and Comprehension (TOSREC)
  - Edinburgh Handedness Inventory
  - WoodcockJohnson-IV, Test 9, Sentence Reading Fluency
  - Kaufman Brief Intelligence Test Second Edition (KBIT-2)
  - Comprehensive Test of Phonological Processing Second Edition (CTOPP-2) Subtest VII – Rapid Color Naming
- PsychoPy – Moderate skill in programming behavioral tasks measuring math and reading skills administered via iPad
- Hyper Text Markup Language (HTML) – Competent at programming for webpage design
- Cascading Style Sheets (CSS) – Competent styling for webpage design
- EyeLink 1000 Eye Tracker – Proficient at collecting and processing Eye-Tracking Data
- FMRIB Software Library (FSL) - Have experience running and editing commands
- Analysis of Functional NeuroImages (AFNI) - Have experience running and editing commands, cluster thresholding, and 3D volume rendering
- SPM - Have experience converting DICOM to NIFTI and running segmentation procedures.
- Linux - Basic navigation and commands
- UNIX - Basic navigation and commands

## **Training and Courses Attended**

- FMRIB Software Library (FSL) Course Fall 2020

## **Teaching Experience**

**Athletics Peer Tutor, Student Athletic Academic Services (SAAS),** Fall 2018  
**University of Southern California**

*Peer Tutor*

Advisor: Cory Buckner

- Tutored a case load of student athletes on a variety of courses including Psychological Research Methods, Statistics in Psychology, and Pre-Calculus
- Assisted students with homework, class projects, and exam material in 1-on-1 60-minute sessions once per week

**Undergraduate Course Assistant, Psychology Department,  
California State University, Fullerton**

Spring 2016 - Fall 2016

*Teaching Assistant for Elementary Statistics in Psychology*

Professor: Dr. Kathleen Preston

- Graded homework assignments
- Assisted students with SPSS and Excel during laboratory section
- Guest lecturer for lab section
- Assisted students with questions via E-mail
- Held office hours
- Created study guides for exams
- Updated Lab slides, assignment keys and exams
- Hosted review session

**Stats Tutor, Psychology Department, Mt. San Antonio College**

Fall 2016

*Tutor for Statistics for the Behavioral Sciences*

Professor: Michael Dowdle

- Assisted students with questions via scheduled appointment

**Publications**

- McEligot, A.J., Cruz, S.S., Gonzalez, S., Pogoda, J.M. (2017). The association between dietary folate, folate supplementation and total folate intakes with depression in a diverse adult population. *California Journal of Health Promotion*.

**Presentations**

- Barakat, R., **Gonzalez, S.**, Rajan, M., Azad, A., Krafnick, A., Orozco, M., McGregor, H., Zevin, J., Manis, F., Clark, K. (May, 2019). *Examining the role of Discrepant IQ and Reading Ability in Reading Network Activation*. Poster presentation at the Organization for Human Brain Mapping. Rome, Italy.
- **Gonzalez, S.**, Barakat, R., Rajan, M., Clark, K. (March, 2019). *Assessing the Relationship Between Reading Ability and Dyslexia: A Behavioral and fMRI Study*. Poster presentation at the Cognitive Neuroscience Society conference. San Francisco, CA.
- **Gonzalez, S.**, Lynch, K., Orozco, M., & Clark, K. (November, 2017). *Dyslexia: Related Behaviors and Neuronal Abnormalities*. Poster presentation at the Southern California Conference for Undergraduate Research. Pomona, CA.
- Sta. Cruz, S., **Gonzalez, S.**, Behseta, S., Pogoda, J., & McEligot, A. (November, 2017). *You Are What You Eat: Folate and Depression*. Poster presentation at the Southern California Conference for Undergraduate Research. Pomona, CA.
- **Gonzalez, S.**, Lynch, K., Orozco, M., & Clark, K. (September, 2017). *Dyslexia: Related Behaviors and Neuronal Abnormalities*. Poster presentation at the California BD2K Workshop, Huntington Beach, CA.

- Sta. Cruz, S., **Gonzalez, S.**, Behseta, S., Pogoda, J., & McEligot, A. (September, 2017). *You Are What You Eat: Folate and Depression*. Poster presentation at the California BD2K Workshop, Huntington Beach, CA.
- **Gonzalez, S.**, Lynch, K., Orozco, M., & Clark, K. (July, 2017). *Dyslexia: Related Behaviors and Neuronal Abnormalities*. Oral presentation at the University of Southern California's Laboratory of Neuro Imaging, Los Angeles, CA.
- Sta. Cruz, S., & **Gonzalez, S.** (May, 2017). *You Are What You Eat: Folate and Depression*. Oral presentation at the Big Data Discovery and Diversity Student Research Projects and Research Day, Fullerton, CA.
- Bacigalupi, S., Crawford, J., Gibson, V., **Gonzalez, S.**, & Lohff, I. (April, 2015). *Understanding Emotion: How gender plays an important role*. Poster presentation at the Western Psychological Association Conference. Las Vegas, NV.