Plyfaa Suwanamalik-Murphy

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EDUCATION

University of California, Davis Bachelor of Arts, Cognitive Science
GPA: 3.8 on a 4.0 scale Graduation Date: June 2024

PUBLICATIONS & PRESENTATIONS

Chang, S., **Suwanamalik-Murphy, P.**, Okazaki, J., Roy, D., Matsunaga, M., Goo, C., Carrazana, E., Viereck, J., & Liow, K. (2023). Investigating the Prevalence of Psychiatric Disorders in Multiple Sclerosis with Autoimmune Comorbidities (P5-3.008). *Neurology*, *100*(17 Supplement 2). DOI: https://doi.org/10.1212/WNL.0000000000202503

Mason, T., **Suwanamalik-Murphy, P.,** Tenorio K., Diaz, S., Pauker, K., Gaither, S., Halim, M., Dunham, Y., Olson, K. (February 24, 2023). *Variability in the Cross-Race Effect Among Geographically Diverse White Children.* Society for Personality and Social Psychology, Atlanta, GA

Shehabi, S., **Suwanamalik-Murphy, P.,** Pierotti, E., Corina D. (April 17, 2023). *An ERP Study Investigating the Influence of Audiovisual Cues on Speech Recognition.* Stanford Research Conference, CA

Chang, S., **Suwanamalik-Murphy, P.,** Okazaki, J., Roy, D., Goo, C., Liow, K., Viereck, J., Carrazana, E. (April 22, 2023). *Investigating the Prevalence of Psychiatric Disorders in Multiple Sclerosis with Autoimmune Comorbidities.* American Academy of Neurology, Boston, MA. https://www.aan.com/MSA/Public/Events/AbstractDetails/53437

Suwanamalik-Murphy, P., Shehabi, S., Laurie, N., Pierotti, E., Corina D. (April 27, 2023). *The Impact of Audiovisual Cues on Speech Recognition: an ERP Study.* Undergraduate Research Conference at UC Davis, CA. https://urc.ucdavis.edu/sites/g/files/dgvnsk3561/files/inline-files/2023%20URC%20Abstract%20Book%20V.2.pdf

RESEARCH EXPERIENCE

Shenoy Undergraduate Research Fellowship in Neuroscience Program with the Simons Foundation - Sergey Stavisky, Ph.D., Daril Evan Brown II, Ph.D., and Nicholas Scott Card, Ph.D.
Fellowship Awardee, September 2023 – September 2024

- Created a pipeline utilizing Python for processing datasets derived from microelectrode and electrode recordings.

University of Oxford - Perception Lab with Hannah Smithson, Ph.D., DPhil candidate Shiwen Li
Visiting Research Scholar, June 2023 – September 2023

- Managed several research projects investigating the perception of iridescence.
- In MATLAB: programmed an experiment, employed Psychtoolbox, visualized data, read and wrote files, created and manipulated variables. Assembled methodologies for recording how participants manipulate real-life iridescent samples.

University of California Davis - Maximizing Access to Research Careers (MARC) Program, Advisor Connie Champagne, Ph.D.
Program Awardee, June 2023 – June 2024

- Collaborated with faculty-mentored research, journal club, quarterly professional development seminar, presentation of research at a national conference and at the UC Davis Undergraduate Research, Scholarship & Creative Activities Conference.

University of California Davis - Neural Mechanisms of Attention Lab with George R. Mangun, Ph.D., graduate student Lee Holcomb, Cognitive Neurolinguistics Lab with David Corina, Ph.D., graduate student Elizabeth Pierotti
Undergraduate Research Assistant, September 2022 – June 2023

- Investigated whether spatial attention can modulate the C1 component. Examined auditory ERP responses with hearing children and children with cochlear implants (all between ages 8-13).
- Managed participants, headed EEG capping and EEG recordings, while executing eye-tracking and data organization. Analyzed EEG and ERP data by utilizing MATLAB, EEG Lab and ERP Lab.
- Worked with 64-channel Synamps2 EEG from Neuroscan and active electrodes from Brainvision. ActiCAP was used for impedances to determine whether main electrodes, reference, ground, and mastoids work. CURRY was used for EEG recording.

University of Hawai'i at Mānoa - Brain & Behavior Lab with Jonas Vibell, Ph.D., Intergroup Social Perception Lab with Kristin Pauker, Ph.D., graduate student Salena Diaz
Undergraduate Research Assistant, June 2022 - August 2022

- Investigated how different types of attention influence brain potentials in human subjects.
- Executed EEG capping, managed participants, and spearheaded computer and monitor setup needed to record EEG data for brain rehabilitation projects.
- Conceptualized a project involving a cross-race effect on early development based on geographical location in the U.S. Culminated into an accepted abstract at SPSP 2023
- Refined data organization and syntax using SPSS, Google Sheets, and R.

Hawaii Pacific Neuroscience - Summer Internship Program with Advisor Jason Viereck, M.D., Ph.D.
Summer Intern, June 2022 - August 2022

- Researched the prevalence of psychiatric disorders in MS patients with immune comorbidities by implementing a retrospective study with data from the clinic Hawaii Pacific Neuroscience.
- Produced an accepted abstract for the American Academy Neurology 2023 Conference. Succeeded in publishing a paper on our findings in the journal of Neurology.

University of California Davis - Visual Cognition Lab with John Henderson, Ph.D., graduate students Alan Lu and Alexandra Theodorou
Undergraduate Research Assistant, March 2022 – August 2023

- Pioneered a project investigating search performance for target and distract objects with varying semantic roles.
- Managed participants, spearheaded eye-tracking data collection, simplified data organization, and annotated over 200 stimuli using the Administered Computer Vision Annotation Tool (CVAT) for projects relying on object depth information.

AWARDS & GRANTS

Simons Foundation Undergraduate Research Fellowship
$7500.00
Experiential Learning Opportunity Grant
$3,600.00
Undergraduate Travel Award, UC Davis
$500.00
Rank Prize Undergrad Vacation Grant
$5,500.00
Provost's Undergraduate Fellowship
$808.00

LEADERSHIP & SERVICE

Cognitive Science Student Association (CSSA) *Project Manager,* June 2023 - June 2024

- Responsible for creating hands-on learning workshops, group projects led by students and faculty, and managing networking events, in order to support the academic and professional endeavors of students involved in cognitive science at UC Davis.

The Aggie Transcript: Psychology (ATPysch) *Treasurer and Senior-Editor,* January 2023 – June 2024

- Executed the writing of grants and delivered edits to undergraduate submissions for the journal.

National Undergraduate Consortium for Science Journalism (NUCSJ) *Delegate,* March 2023 – June 2024

- Coordinated communication between NUCSJ and the *Aggie Transcript: Psychology* executive board.