

Education

University of Hong Kong, Hong Kong	Sept. 2021 - Present
<ul style="list-style-type: none">• PhD Candidate, Department of Psychology• Expected graduation: August 2025	
University of California, Los Angeles	
<ul style="list-style-type: none">• B.S., Psychobiology (Applied Neuroscience) – GPA: 3.91/4.00	June, 2020
<ul style="list-style-type: none"><ul style="list-style-type: none">• With a Specialization in Computing• Minor in Cognitive Science	
Chinese International School, Hong Kong	June, 2016

Publications

Guo, S., Swire-Thompson, B. & Hu, X. (2025). Specific media literacy tips improve AI-generated visual misinformation discernment. *Cognitive Research: Principles and Implications*, 10, 38.

<https://doi.org/10.1186/s41235-025-00648-z>

Guo, S., Chen, D., & Hu, X. (2025). Providing an alternative explanation improves misinformation rejection and alters event-related potentials during veracity judgements. *Brain and Cognition*, 186, 106290.

<https://doi.org/10.1016/j.bandc.2025.106290>

Xian, Q., Qiu, Z., Kala, S., Guo, J., Zhu, J., Wong, K. F., **Guo, S. S. Y.**, Zhu, T., Hou, X., & Sun, L. (2021). Protocol for the sonogenetic stimulation of mouse brain by non-invasive ultrasound. *STAR Protocols*, 2(2).

<https://doi.org/10.1016/j.xpro.2021.100393>

Works in Progress

Guo, S., Wahlheim, C.N., Mu, S., Hu, X. The effects of re-exposure to AI-generated imagery on correction effectiveness. [Under Review]

Guo, S., Zhong, Y., Hu, X. (2024). Realistic AI-Generated Images Increase Belief in Misinformation but do not Influence Correction Effectiveness. <https://doi.org/10.31219/osf.io/2p64a> [In Revision]

Guo, S., Chen, D., Hu, W. & Hu, X. (2024). Faster Initial Retrieval of Misinformation Corrections Predicts Better Long-Term Memory: An ERP Study [Submitted]

Zhong, Y., **Guo, S.**, Chen, D., Grigoras, V. & Hu, X. (2023) Inducing critical thinking styles to combat misinformation. [Submitted]

Conference Presentations: Talks

Guo, S., Chen, D., Hu, W. & Hu, X. (2023, Oct). *Constructing a Theoretical Framework for Memory of True and False events: An EEG study.* Presented at the 9th Departmental Research Postgraduate Symposium, University of Hong Kong.

Conference Presentations: Posters

Guo, S., Swire-Thompson, B. & Hu, X. (2025, Feb). Specific Media Literacy Tips Improve AI-generated Visual Misinformation Discernment. Poster presented at the Society for Personality and Social Psychology (SPSP), Denver, CO, U.S.A.

Guo, S., Zhong, Y., Hu, X. (2024, Aug). Properties of AI-generated images that influence misinformation belief and correction efficacy. Poster presented at CogSci 2024, Hong Kong.

Guo, S., Chen, D., Hu, W. & Hu, X. (2024, Apr). Factors that lead to the continued influence effect of misinformation: how can we effectively encode corrections? Poster presented at Cognitive Neuroscience Society, Toronto, ON, Canada.

Guo, S., Chen, D. & Hu, X. (2023, Mar). Examining Electrophysiological Activity Behind Encoding and Recollecting Misinformation and its Corrections. Poster presented at the HKU Presidential Scholars Symposium, Hong Kong.

Guo, S., Chen, D. & Hu, X. (2022, Oct). The Role of Familiarity and Memory Recollection in Decreasing the Continued Influence Effect of Misinformation: An Electrophysiological Investigation. Poster presented at Society for Psychophysiological Research, Vancouver, BC, Canada.

Guo, S., Kosasih, F. R., Saleeb, A., & De Monteverde, U. D. (2020, July 17). The Role of Communication in Neural Synchrony. Presented at the Psychology Undergraduate Research Conference, Los Angeles, CA.

Awards

Graduate Student Award (2024), Cognitive Neuroscience Society 2024 Annual Meeting
Best Poster Presenter Award (2023, Mar), HKU Presidential Scholars Symposium
HKU Presidential PhD Scholarship (2021 – 2025)
Dean's Honors List (2016, 2017, 2018, 2019, 2020), UCLA

Grants

Seed Fund for PI Research - Basic Research 2022-2023
PI: Hu, Xiaoqing
Funder: University of Hong Kong
Amount: 70,000HKD
Project Title: Understanding the neurocognitive mechanisms of continued influence effect of misinformation: An encoding vs. retrieval perspective.
Role: Wrote a proposal for an upcoming project investigating misinformation using EEG and successfully obtained funding for it from an internal university grant.

Teaching

Guest Lecturer for Seminar in Social Psychology (PSYC7022) 2024
University of Hong Kong
Responsibilities: I delivered a guest lecture for a graduate-level course. The lecture covered current trends and findings in misinformation science, and an overview of current research on AI-generated visual misinformation. The session consisted of one hour of lecture time, followed by half an hour of class discussion.

Peer English Tutoring 2024
University of Hong Kong
Responsibilities: I mentored three students one-to-one as they were settling into life in Hong Kong, providing guidance on English conversation skills and local culture. A total of three one-hour sessions were provided to each student.

Graduate Student Tutor for Human Neuropsychology 2023
University of Hong Kong

Responsibilities: I was responsible for creating and grading midterms, final exams and a written research report. The course introduces basic principles of brain-behaviour relationships, and reviews research methods for investigating brain-behavior relationships. The neuro-anatomical and neuropsychological mechanisms underpinning various cognitive and affective processes as well as how these processes are dysregulated in some common brain disorders are discussed.

Graduate Student Tutor for Cognitive Psychology 2022
University of Hong Kong

Responsibilities: The course covers how humans process information from the environment. Topics include various aspects of perception, attention, memory, imagery, language and decision-making.

Graduate Student Tutor for Biological Psychology 2022
University of Hong Kong

Responsibilities: The course introduces biological aspects of behaviour, including: biological bases of behaviour, development, learning, memory, and abnormal psychology.

Research Experience

Social Cognitive Neuroscience Lab at UCLA, Los Angeles, California

Student Research Assistant 2019 - 2020

- Operate functional Near-Infrared Spectroscopy (fNIRS) equipment in a novel experimental protocol
- Run studies for 10 hours a week
- Attend weekly lab meetings and provide feedback on the study

Chang Lab at Hong Kong University, Hong Kong

Student Research Assistant 2019

- Tackled new problems such as linking obsolete eye tracker technology with MATLAB
- Extensive MATLAB experience creating visual stimuli for pioneering trainings for blind sight patients
- Assisted and participated in fMRI experimental procedure in research hospital
- Performed fMRI pre-processing using Brain Voyager to identify active regions of the brain
- Designed and coded virtual reality experimental protocols within Unity

SLASH Lab at Hong Kong University, Hong Kong

Student Research Assistant 2019

- Collaborated on an academic abstract for the American Psychological Oncology Society conference
- Supervised multiple overnight sleep deprivation studies as well as early morning shifts
- Programmed R codes to analyze statistical data on insomniac cancer patients undergoing CBT therapy
- Created new R code to extract data from ongoing experiments using PsychoPy

Maidment Laboratory at UCLA, Los Angeles, California

Student Research Assistant 2017-2018

- Learned carbon fiber electrode manufacturing process over the course of 2 weeks
- Contributed research data into a new treatment for Parkinson's Disease involving amyloid beta
- Performed protein assays, Western blots and ELISAs at least once every 2 weeks, obtaining data on the level of amyloid beta in rat brains after a change in diet
- Maintained and cared for 8 rats over the course of 2 weeks and performed perfusions on them

Social Interaction and Social Stigma Lab (SISSL) at UCLA, Los Angeles, California

Student Research Assistant 2019

- Ran studies for 8 hours every week
- Learned the procedure for running studies and maintaining lab space in 2 hours
- Regularly provided feedback to the study leads based on personal experience from running the study

- Developed a project over the course of 10 weeks proposing a new study, detailing methods and background

Social Communication Lab (SOCOM) at UCLA, Los Angeles, California

Student Research Assistant

2018-2019

- Ran studies for 6 hours every week
- Contributed to biweekly lab meetings with graduate students
- Communicated with graduate students regularly to improve study material based on participant feedback

Work Experience

Hong Kong Polytechnic University Biomedical Engineering

Research Assistant

2020-2021

- Work with cutting-edge ultrasound technology to stimulate mice brains
- Performed surgeries on mice and processed brain slices
- Performed behavioural experiments including rotarod and open field
- Carried out individual literature review on ultrasound neuromodulation

UCLA Mathematics Department

Grader

2020

- Graded homework for an introductory Java programming class
- Chosen for the job due to previously achieving the highest grade in the class
- Communicated with the professor and teaching assistant to give feedback on grading schemes

Duchess of Kent Children's Hospital

Rehabilitation Assistant

2018

- Conducted neurofeedback training with children suffering from ADHD and ASD
- Supported clinical psychologists by planning rehab courses for children
- Analyzed data from parental surveys and reported results
- Met 4 times a week, 8 hours a day for 2 months

Skills

Software tools: Qualtrics, EEGLAB, PsychoPy, Microsoft Word, Excel and PowerPoint

Coding experience: OpenAI API, R, MATLAB, Python

Languages: Fluent in English, Mandarin, Cantonese; Conversational in Japanese, French