

Chen Liu
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Education

2022 - 2023 *University of California, Merced (UC Merced), California, USA*
Master of Cognitive & Information Science

2017- 2021 *National Tsing Hua University (NTHU), Hsinchu, Taiwan*
Bachelor of Education in Special Education

2018 -2019 *Semester exchange, Tsinghua University in Beijing*
Major in Psychology

2018 Summer *UBC Vancouver Summer Program of Culture, Creativity, and Learning Technologies*

Lab Experience

2022-Present *Language, Learning, and Teaching Lab*
PI: Dr. Zenaida Aguirre-Muñoz
Research focus: bilingualism, second language acquisition, STEM education

2022-Present *Language, Interaction, & Cognition Lab*
PI: Dr. Rachel Ryskin
Research focus: sentence predicting processing, computational linguistic

2019 *Research Assistant, Research Center for Education and Mind Science*
Research focus: cognitive load, working memory span

Publications & Manuscripts

Aguirre-Muñoz, Z., Pando, M., & **Liu, C.** (2024). Enhancing Bilingual/ESL Teachers' STEM Instruction with Targeted Content and Disciplinary Literacy Professional Development: A Study on Knowledge and Practice Outcomes. *Education Sciences*, 14(7), 745.

Liu, C., Ryskin, R., Aguirre-Muñoz, Z. (*in preparation*). Effects of context and proficiency on processing difficulty during L2 reading

Posters & Presentations

Liu, C., Ryskin, R., Aguirre-Muñoz, Z. (2023). [Effect of context and proficiency on processing difficulty during L2 reading](#). At California Meeting on Psycholinguistics (CAMP[6]). Stanford, CA

Aguirre-Muñoz, Z., **Liu, C.**, Casper, R., L, Shan. (2025) Enhancing College Text Comprehension Through Brief Metalinguistic Training. At TESOL International Convention & Expo. (TESOL). Long Beach, CA

Work Experience

2023-current *UC Merced Cognitive & Information Science Department, California, USA*
Lab Manager/ Project Coordinator

- Coordinated research projects on enhancing college text comprehension through brief metalinguistic training

- Managed comprehensive lab administrative operations,
- Supervised and mentored undergraduate Research Assistants

2022 ***Yu-Tsai Bilingual Elementary School, New Taipei City, Taiwan***
School Counselor and 3rd&4th grade Science Teacher

- Counseling students with special needs
- Designed hybrid courses and activities for students in science
- Participate in school activities, including Freshman Admissions and graduation

2021 - 2022 ***Yonghe Elementary School, New Taipei City, Taiwan***
Intern Resource Room Teacher

- Designed Social Emotional Learning (SEL) program for second-grade autistic students
- Helped students with learning disabilities develop their individual learning strategies

2021 ***National Experimental High School, Hsinchu, Taiwan***
Student Teacher, Gifted Education Classroom, Hsinchu Science Park Elementary Dept.

- Designed STEM activities for students to explore their interests in different fields
- Designed problem-based activities for students to develop problem-solving skills
- Design courses for creativity and leadership skills

2020 ***Dongmen Elementary School, Hsinchu, Taiwan***
Student teacher, Special Education Classroom

- Improved students 'gross motor and fine motor skills by giving functional motion training
- Used storybooks to help students accumulate common vocabulary

Volunteer Experience

2019 ***National Taiwan University Hospital Hsinchu Branch***

- Designed classes for early intervention children
- Coordinated with physical therapists to help children improve the quality of their movements
- Observed performance of developmentally delayed children in cognition, movements, and emotion

2019 ***International Volunteer in Romania***

- Communicated and cooperated with people from different countries and cultures
- Hosted weekly English camps in different villages

2018 ***Saint Joseph Social Welfare Foundation***

- Designed camp activities for people with special needs

Course Project

Modeling endangered languages: The effects of bilingualism

https://drive.google.com/file/d/1tMXIHno3pG90Urj_oqf_TEUxND58FIJT/view

Diversity and Representation at the University of California

<https://joyce9936.github.io/project/UC-representation1207.html>

How multimedia storybooks could impact reading comprehension ability and visual attention in sequential Mandarin-English bilinguals encompassing both L1 and L2

https://drive.google.com/file/d/1_HKw3PMvmBq3ZG5cZ0krTqQfs7CdUcIv/view

Skills

- R (intermediate)
- Tobii Eye tracking Experimentation (intermediate)
- Qualtrics/ Gorilla (intermediate)
- MatLab (beginner)
- EEG Experimentation (beginner)
- Python (beginner)

Online Certificates

Introduction to Psychology, Yale University

- Topics include perception, communication, learning, memory, decision-making, persuasion, emotions, and social behavior.

Fundamental Neuroscience for Neuroimaging, John Hopkins University

- Gained knowledge in various neuroimaging approaches and experimental design
- Learned advantages and disadvantages in structural and functional when doing research
- Understood recent research in neuroscience using different approaches

Anatomy: Human Neuroanatomy, University of Michigan

- Trained in neuroanatomy, sensory pathways, motor pathways, and the autonomic nervous system
- Learned about the structural anatomy of the human brain

Human Resources Analytics: University of California, Irvine

- Gained basic knowledge of the principle and importance of human resources
- Learned standard tools for analyzing human resources data