

# Chen Liu

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## Education

- 2025 - Present** *University of California, Merced (UC Merced), California, USA*  
PhD of Cognitive & Information Science
- 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, UC Merced*  
**PI:** Dr. Zenaida Aguirre-Muñoz  
Research focus: bilingualism, teaching pedagogy, functional linguistic approaches
- 2022-2024** *Language, Interaction, & Cognition Lab, UC Merced*  
**PI:** Dr. Rachel Ryskin  
Research focus: prediction in sentence processing, computational psycholinguistics
- 2019** *Research Assistant, Research Center for Education and Mind Science, NTHU*  
Research focus: cognitive load, working memory span

## Publications & Manuscripts

- Liu, C., Casper, R., Aguirre-Muñoz, Z. (*under review*). The Cognitive Architecture of College Reading: How Attention, Executive Function, and Metacognitive Awareness Shape Comprehension.
- Aguirre-Muñoz, Z., Liu, C., & Casper, R. (2025). Elevating Elementary Teacher Practice in the English Learner Writing Classroom with SFL Metalanguage and Translanguaging Approaches. In *Teaching Writing to English Language Learners in the Elementary Classroom* (pp. 31-55). Routledge.
- 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
- Aguirre-Muñoz, Z., Liu, C., Casper, R., L, Shan. (*under review*). Enhancing College Text Comprehension Through Brief Metalinguistic Training.

## Posters & Presentations

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

- Aguirre-Muñoz, Z., **Liu, C.**, Casper, R., L, Shan. (2025) Enhancing College Text Comprehension Through Brief Metalinguistic Training. Poster at American Association for Applied Linguistics. (AAAL). Denver, CO
- Aguirre-Muñoz, Z., **Liu, C.**, Casper, R. (2024). Fostering Biliteracy Skills and Critical Language Awareness: An Iterative Professional Development Journey for DLL Educators. Poster at Office of English Language Acquisition (OELA) NPD Project Director's Meeting. San Diego, CA
- **Liu, C.**, Ryskin, R., Aguirre-Muñoz, Z. (2024). Effect of context and proficiency on processing difficulty during L2 reading. Poster at California Meetup on Psycholinguistics (CAMP[6]). Stanford, CA

## Work Experience

**2023-2025 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

**2022-2023 Yu-Tsai Bilingual Elementary School, New Taipei City, Taiwan**

School Counselor and 3<sup>rd</sup>& 4<sup>th</sup> 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/1tMXlHno3pG90Urj\\_oqf\\_TEUxND58FlJT/view](https://drive.google.com/file/d/1tMXlHno3pG90Urj_oqf_TEUxND58FlJT/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](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)