CHIA-YU (MILLIE) LIU

mipix66@gmail.com | linkedin.com/in/millieliu-041858135

EDUCATION

Asia University, Taichung, Taiwan *August 2022 – January 2026*
Master of Science, Department of Audiology and Speech-Language Pathology

- *Thesis:* Meta-analyses of phonological-based and auditory-based training effects on school-aged children with reading difficulties. Advisor: Dr. Yu-Hsien (Natalie) Wang; co-advisor: Dr. Sheng-Hwa Chen.
- *Grades and coursework:* graduation score 90.74/100 (A+); Advanced Biostatistics (95/100); Evidence-based Research for Audiology and Speech-Language Pathology (A+).
- *Clinical training:* Speech-Language Pathology Intern, Asia University Hospital (language, articulation, swallowing).

University of Wisconsin–Madison, Madison, Wisconsin, USA *September 2023 – May 2024*
University Special Student (Visiting International Student Program), Communication Sciences and Disorders

- *Grades and coursework:* 18 graduate credits, GPA 3.75/4.00; Neural Mechanisms of Speech, Hearing and Language (A); Language and Cognitive-Communication Disorders in Adults (A).
- *Laboratory:* attended the Cognitive-Communication in Aging and Neurogenic Disorders Laboratory as a special student; course instructor and lab host: Dr. Kimberly Mueller.

National Tsing Hua University, Hsinchu, Taiwan *September 2018 – June 2022*
Bachelor of Education, Department of Educational Psychology and Counseling

- *Grades:* GPA 3.92/4.30.
- *Thesis:* The Theory of Mind, Emotion Evaluation, Social Reference, and Humor Styles of Gelotophobes.
- *Quantitative coursework:* Psychological and Educational Statistics I and II; Statistical Package for Social Studies; Research Methods in Psychology and Education; Psychological and Educational Testing.

TRAINING AND CERTIFICATES

- Fellows Program in Aging, Hearing and Public Health (Taiwan edition), Johns Hopkins Cochlear Center for Hearing and Public Health *July 2024*
- Montreal Cognitive Assessment (MoCA) Certified Rater, MoCA Cognition *September 2023*

RESEARCH EXPERIENCE

Chi Mei Medical Center, Tainan, Taiwan | Research Collaborator *2023 – present*
Department of Psychiatry. Senior collaborator: Dr. Chih-Cheng Lai, Department of Internal Medicine

- *EHR cohort studies (TriNetX):* methods used include propensity-score matching, Kaplan-Meier analysis and Cox models; made survival curves and forest plots in Stata. Topics: falls and delirium in older adults with dementia; mental health in unilateral hearing loss; diabetes prevention in antipsychotic-treated patients (analysis shared with a co-author).
- *Systematic reviews and dose-response meta-analyses:* PRISMA, RoB 2, GRADE and trial sequential analysis. Led the analysis and writing of a co-first-authored review of laughter therapy; for a review of vitamin D, extracted data and assessed risk of bias with a co-author and wrote the dose-response methods.
- *Outputs:* six articles and three posters; helped revise the dementia manuscript and its response to reviewers.

National Taiwan Normal University | Graduate Research Assistant (part-time, remote) *February 2024 – May 2024*
Special Education Center, Taipei, Taiwan

- *Longitudinal data analysis:* managed and analyzed data on theory-of-mind development in children with hearing loss.
- *Translation and localization:* Mind Reader theory-of-mind teaching materials.

Asia University | Graduate Research Assistant (part-time), aphasia research *October 2022 – May 2023*

- *Data collection and analysis:* EEG, eye-tracking and behavioral studies in adults with aphasia; participant testing; statistical analysis in R and SPSS; contributed to manuscript preparation.

National Tsing Hua University | Undergraduate Research Assistant (part-time) *September 2019 – September 2021*
Cognitive and Hedonic-Affective Neuroscience Laboratory

- *Behavioral and neuroimaging research:* recruited and tested participants, coded data and ran preliminary analyses; assisted with EEG and fMRI studies of humor, emotion regulation and theory of mind.

TEACHING EXPERIENCE

Asia University | Teaching Assistant (part-time) *October 2022 – May 2023*
Acquired Language and Cognitive-Communication Disorders in Adults; Introduction to Communication Disorders

GRANTS, SCHOLARSHIPS AND AWARDS

- "Youth Overseas Dream" Scholarship (US$13,000), Taiwan Ministry of Education, for the UCLA biomedical engineering and quantum science summer program *2026*
- International Conference Travel Grants (US$2,975 in total), National Science and Technology Council, Taiwan *2023–2025*
- Study Abroad Programme for Future Scholars in the Humanities and Social Sciences (US$41,666), Taiwan Ministry of Education, for study at the University of Wisconsin–Madison *2023–2024*
- Yin Shu-tian Scholarship (NT$100,000 per year), National Tsing Hua University *2018–2020*
- National Champion (group), sign-language song competition *2019*

PUBLICATIONS

Journal Articles

- Liu T-H, Chu C-C, **Liu C-Y**, Wu J-Y, Tsai Y-W, Chang H-A, Lai C-C. Risk of falls and delirium associated with dual orexin receptor antagonists versus benzodiazepines and Z-drugs in older adults with dementia. *Translational Psychiatry*. Published online August 20, 2026. doi:10.1038/s41398-026-04394-8.
- Liu T-H, Chu C-C, **Liu C-Y**, Wu J-Y, Tsai Y-W, Chang H-A, Lai C-C. Association between tirzepatide use and risk of suicidal ideation among individuals with obesity and major depressive disorder. *Translational Psychiatry*. 2026; in press (accepted September 29, 2026).
- Liu T-H, Lee C-H, **Liu C-Y**, Wu J-Y, Tsai Y-W, Kao P-H, Lai C-C. Effectiveness of GLP-1RA vs metformin for diabetes prevention in antipsychotic-treated patients. *European Neuropsychopharmacology*. 2026;110:112853. doi:10.1016/j.euroneuro.2026.112853.
- **Liu C-Y***, Liu T-H*, Huang C-W, Lai C-C, Lin C-H, Su K-P. Effects of laughter therapy on depression and anxiety: a dose-response meta-analysis with trial sequential analysis. *Journal of Psychiatric Research*. 2026;199:50-61. doi:10.1016/j.jpsychires.2026.04.006. *Equal contribution (co-first authors).
- Liu H-H, Liu T-H, **Liu C-Y**, Wu J-Y, Lin C-H, Lai C-C. Efficacy of vitamin D supplementation in patients diagnosed with depression: a dose-response meta-analysis of randomized controlled trials. *Frontiers in Nutrition*. 2026;13:1772451. doi:10.3389/fnut.2026.1772451.
- Kuo K-W, Liu T-H, **Liu C-Y**, Liu C-J. Effects of cochlear implants on depression, anxiety, and insomnia in adults with bilateral sensorineural hearing loss: a three-year retrospective cohort study of 8964 cochlear implant users. *Cochlear Implants International*. 2026;27(1):2-10. doi:10.1080/14670100.2025.2602323

Book Chapter

- Chen C-Y, Liu H-T, **Liu C-Y**, Andrews JF. "How much milk tea is in the tea bucket?" Case study of a Taiwanese deaf teacher teaching primary arithmetic word problems. In: *Deaf Languaging and Translanguaging Across Asia*. Gallaudet University Press; in production, expected Spring 2027.

Manuscripts Submitted

- **Liu C-Y**, Chen C-H, Wang H-L, Wang Y-H. Meta-analyses of phonological-based and auditory-based training effects on school-aged children with reading difficulties. Submitted to *Educational Psychology Review*, 2026.
- Liu H-T, Liu C-J, **Liu C-Y**, Squires B. Longitudinal relationships between spoken language, theory of mind, and reading comprehension in deaf and hard of hearing children in Taiwan. Submitted to *Deafness & Education International*, 2026.

CONFERENCE PRESENTATIONS

Epidemiology and Evidence Synthesis

- **Liu C-Y**, Liu T-H, Liu H-T, Liu C-J. Effects of laughter therapy on depression and anxiety: dose-response meta-analysis with trial sequential analysis [Poster]. 11th World Congress of Asian Psychiatry (WCAP 2026), Sapporo, Japan, October 2026.
- Liu T-H, **Liu C-Y**, Liu H-T, Liu C-J. Risk of falls and delirium associated with dual orexin receptor antagonists versus benzodiazepines in older adults with dementia [Poster]. WCAP 2026, Sapporo, Japan, October 2026.
- Liu T-H, **Liu C-Y**. Unseen Struggles: The Hidden Mental Health Toll of Unilateral Hearing Loss [Poster 428]. 24th International Congress on the Education of the Deaf (ICED), Rome, Italy, July 2025.
- **Liu C-Y**, Chen C-H, Wang H-L, Wang Y-H. Meta-analyses of phonological-based and auditory-based training effects on school-aged children with reading difficulties [Oral presentation]. Association for Reading and Writing in Asia, Cebu, Philippines, February 2025.
- **Liu C-Y**, Wang Y-H. The effect of phonological-based intervention for school-aged children with developmental dyslexia: a meta-analysis [Poster]. American Speech-Language-Hearing Association Convention, Seattle, WA, December 2024.
- **Liu C-Y**, Liu C-J, Liu H-T, Liu T-H. The effect of hearing aids on depressive symptoms: meta-analysis of randomized controlled trials [Poster]. American Psychological Association (APA) Convention, Washington, DC, August 2023.

Hearing Loss, Language and Cognition

- **Liu C-Y**, Liu H-T, Liu C-J, Liu T-H. Reducing linguistic bias in advanced theory-of-mind assessment [Poster]. WCAP 2026, Sapporo, Japan, October 2026.
- Liu H-T, Liu C-J, **Liu C-Y**. Longitudinal study of theory-of-mind development in children with hearing loss and children with typical hearing [Oral presentation]. ICED, Rome, Italy, July 2025.
- **Liu C-Y**, Liu H-T, Liu C-J. Easy-to-read text with illustrations: generative AI innovations for Deaf and hard of hearing individuals [Poster]. ICED, Rome, Italy, July 2025.

SKILLS

- *Software:* R; SPSS; Stata; Review Manager (RevMan).
- *Languages:* Mandarin (native); Taiwanese (fluent); English (IELTS 8.0); Taiwanese Sign Language (basic).