

# Chun-Che Hung

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## Education

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<b>Ph.D., Psychology</b>	Jun. 2024 – present
Dual specialization: Developmental Psychology/Behavioral and Cognitive Neuroscience	
University of Florida (UF), Gainesville, FL, USA	
<b>Ph.D., Psychology</b>	May 2024
Specialization: Cognitive and Brain Sciences	(Transfer to UF)
The University of Alabama (UA), Tuscaloosa, AL, USA	
<b>M.S., Behavioral Sciences</b>	2022
Chang Gung University (CGU), Taoyuan, Taiwan	
<i>Thesis: Gut microbiota changes in patients with mild cognitive impairment due to Alzheimer's disease and their relations with white matter integrity</i>	
<b>B.S., Occupational Therapy</b>	2020
Chung Shan Medical University (CSMU), Taichung, Taiwan	

## Medical Licensure & Certification

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Occupational Therapy Licensure, Ministry of Health and Welfare, Taipei, Taiwan	Sep. 2020 – present
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## Honors & Awards

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• Jacquelin Goldman Spring Scholarship (value: \$8000), UF	Jan. 2025
• Jacquelin Goldman Research Award (value: \$4950), UF	Jan. 2025
• NIA/Scientific Research Network on Decision Neuroscience and Aging Collaboration Award (value: \$3500)	Jan. 2025
• College of Liberal Arts and Sciences Spring 2025 Travel Award (value: \$400), UF	Dec. 2024
• Sallie P. Asche Travel Award (value: \$500), Dallas Aging and Cognition Conference	Dec. 2024
• Department of Psychology Travel Award (value: \$750), UF	Dec. 2024
• Graduate Student Opportunity Award (total value: \$105,000), UF	2024 – 2028
• Graduate Council Fellowship (total value: \$54,492), UA	2023 – 2024
• Outstanding Research Performance Award (competitive), CSMU	Spring 2020
• Honorable Mention Award (3rd place in poster presentation), TOTA	Nov. 2019
• Outstanding Research Performance Award (competitive), CSMU	Fall 2019
• Outstanding Research Performance Award (competitive), CSMU	Spring 2019
• High Distinction Award (1st place in poster presentation), TOTA	Nov. 2018

Publications (*Google Scholar H-index: 3, Total Number of Citations: 166*)

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1. Liang, K.J.<sup>#</sup>, **Hung, C.C.<sup>#</sup>**, Ko, C.W., Lin, P.C., Chan, P.S., & Cheng, C.H. (In Revision). Error processing in major depressive disorder: A meta-analysis of event-related potential studies.
  2. Cheng, C.H., **Hung, C.C.**, Wu, C.Y., Lin, C.M., & Fang, J.T. (In Revision). Beyond the pillow: Linking subjective and objective sleep measures to gut microbiome composition in community-dwelling older adults.
  3. **Hung, C. C.**, Li, Y. C., Tsai, Y. C., & Cheng, C. H. (2024). Aberrant error monitoring in traumatic brain injuries: A meta-analysis of event-related potential studies. *International journal of psychophysiology : official journal of the International Organization of Psychophysiology*, 206, 112462. <https://doi.org/10.1016/j.ijpsycho.2024.112462> (Impact Factor: 2.5; Ranking: Q2 in Psychology, Experimental)
  4. **Hung, C. C.**, Hsiao, F. J., Wang, P. N., & Cheng, C. H. (2024). Disconnection of alpha oscillations within default mode network associated with memory dysfunction in amnesic MCI. *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology*, 167, 221–228. <https://doi.org/10.1016/j.clinph.2024.09.010> (Impact Factor: 3.7; Ranking: Q1 in Clinical Neurology)
  5. **Hung, C. C.**, Chao, Y. P., Lee, Y., Huang, C. W., Huang, S. H., Chang, C. C., & Cheng, C. H. (2023). Cingulate white matter mediates the effects of fecal Ruminococcus on neuropsychiatric symptoms in patients with amyloid-positive amnesic mild cognitive impairment. *BMC geriatrics*, 23(1), 720. <https://doi.org/10.1186/s12877-023-04417-9> (Impact Factor: 4.1; Ranking: Q1 in Gerontology)
  6. Cheng, C. H., **Hung, C. C.**, Chao, Y. P., Nouchi, R., & Wang, P. N. (2023). Subjective cognitive decline exhibits alterations of resting-state phase-amplitude coupling in precuneus. *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology*, 156, 281–289. <https://doi.org/10.1016/j.clinph.2023.08.015> (Impact Factor: 4.7; Ranking: Q1 in Clinical Neurology)
  7. **Hung, C. C.**, Crowe-White, K. M., & McDonough, I. M. (2023). A seed and soil model of gut dysbiosis in Alzheimer's disease. [Editorial] *Aging*, 15(12), 5235–5237. <https://doi.org/10.18632/aging.204840> (Impact Factor: 5.955; Ranking: Q2 in Geriatrics & Gerontology)
  8. **Hung, C. C.**, Chang, C. C., Huang, C. W., Nouchi, R., & Cheng, C. H. (2022). Gut microbiota in patients with Alzheimer's disease spectrum: a systematic review and meta-analysis. *Aging*, 14(1), 477–496. <https://doi.org/10.18632/aging.203826> (Impact Factor: 5.682; Ranking: Q1 in Geriatrics & Gerontology)

<sup>#</sup>Denotes co-first author (contributed equally to writing of manuscript as first author)

## Presentations

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1. **Hung, C.C.**, Lin, T., & Ebner, N.C. (Apr. 2025). *Integrity of the anterior thalamic radiation mediates age-related phishing susceptibility*. [Invited Talk] Data Blitz at the Center for Cognitive Aging and Memory Research Day, Gainesville, FL, USA.
2. **Hung, C.C.**, Polk, R.J., & Ebner, N.C. (Feb. 2025). *Susceptibility to deception is associated with microstructural brain integrity in older adults*. Poster at the Dallas Aging and Cognition Conference, Dallas, TX, USA.
3. **Hung, C.C.**, Lin, T., Polk, R.J., & Ebner, N.C. (Feb. 2025). *The impact of brain white matter integrity*

on deception detection in aging. Poster at the North Central Florida Society for Neuroscience Annual Conference, Gainesville, FL, USA.

4. **Hung, C.C.**, Lou, S.Z., Chen, C.L., & Yeung, K.T. (Nov. 2019). *Effects of ball throwing strategies on weight shift and stability for patients with stroke*. Poster at the 38th Annual Congress of the Taiwan Occupational Therapy Association (TOTA), Taipei, Taiwan.
5. **Hung, C.C.**, Lou, S.Z., & Teng, Y.L. (Jun. 2019). *Effect of whole-body vibration for patients with neurodegenerative disease: A systematic review and meta-analysis*. Poster at the Annual Congress of the Occupational Therapists Union of The Republic of China, Taichung, Taiwan.
6. **Hung, C.C.**, Lou, S.Z., Kao, P.F., Weng, J.H., Lin, K.P., & Liu, R.S. (Nov. 2018). *Image software QTRODAT for automatic analysis of Tc-99m Trodat-1 SPECT to assess Parkinson's disease: A practical validation*. Poster at the 37th Annual Congress of the TOTA, Kaohsiung, Taiwan.

## Related Skills

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- Neuroimaging analysis: Explore DTI, Pipeline for Analyzing brain Diffusion images (PANDA), DSI Studio, MRtrix3, Computational Anatomy Toolbox (CAT), SPM, AFNI, CONN, FreeSurfer
- Electrophysiological analysis: BrainVision Analyzer, Brainstorm, BrainVISA
- Programming language: MATLAB, Python, R
- Statistical analysis: SPSS, Stata
- Meta-analysis: Comprehensive Meta-Analysis software, GingerALE

## Ad-hoc Reviewer

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<i>BMC Neurology</i>	Mar. 2025
<i>Brain Topography</i>	Nov. 2024
<i>Scientific Reports</i>	Nov. 2024

## Research Experience

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**Doctoral Student** Aug. 2023 – present

**Social-Cognitive and Affective Development Lab** Jun. 2024 – present

**Principal Investigator: Natalie Ebner, Ph.D.**

**Department of Psychology, UF**

- Project: *Microbiome Oxytocin Interplay in Brain Aging (Dissertation work)*.
  - **Responsibilities** include identifying novel research directions, designing research, and communicating with research collaborators.
- Project: *Aging OnLine*.
  - **Responsibilities** include analyzing diffusion-weighted imaging data and writing research papers.

**Cognitive Neuroimaging Lab** Jan. 2024 – May 2024

**Principal Investigator: Sharlene Newman, Ph.D.**

**Department of Psychology, UA**

- Project: *The role of traumatic brain injury and psychosocial stress in cognitive aging*.

- **Responsibilities** included identifying novel research directions and communicating with research collaborators.

### **Cognition, Brain & Autism Lab**

Aug. 2023 – Dec. 2023

**Principal Investigator: Rajesh Kana, Ph.D.**

**Department of Psychology, UA**

- Project: *The differences of language and reading networks between autistic children and typically developing controls using data from the Autism Brain Imaging Data Exchange.*
  - **Responsibility** included writing research papers.
- Project: *Activation likelihood estimation meta-analysis of facial emotion perception in autism.*
  - **Responsibilities** included assisting with teaching a lab member to perform meta-analysis and writing research papers.

### **Research Assistant**

Sep. 2022 – Jul. 2023

**Laboratory of Brain Imaging and Neural Dynamics**

**Principal Investigator: Chia-Hsiung Cheng, Ph.D.**

**Department of Occupational Therapy, CGU**

- Project: *The effects of gut dysbiosis on gray matter volume and cognitive performance in patients with Alzheimer's disease continuum.*
  - **Responsibilities** included analyzing structural magnetic resonance imaging data, communicating with research collaborators, and writing research papers.
- Project: *The association of default mode network connectivity with episodic memory performance in amnesic mild cognitive impairment.*
  - **Responsibilities** included communicating with research collaborators and writing research papers.

### **Master's Student**

Sep. 2020 – Jul. 2022

**Laboratory of Brain Imaging and Neural Dynamics**

**Principal Investigator: Chia-Hsiung Cheng, Ph.D.**

**Graduate Institute of Behavioral Sciences, CGU**

- Project: *The effects of gut dysbiosis on white matter integrity and cognitive performance/neuropsychiatric symptoms in patients with amyloid-positive amnesic mild cognitive impairment.*
  - **Responsibilities** included assisting with writing grant proposals (successfully received 34,000 USD), scoring psychological measuring, analyzing diffusion tensor imaging data, gut microbial data analysis, and identifying novel research findings with elaborate data interpretation and presentation.

### **Teaching Experience**

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- Teaching Assistant for Biology Laboratory, CGU Spring 2022
  - Teaching Assistant for Practical Anatomy, CGU Spring 2021
  - Teaching Assistant for Introduction to Occupational Therapy, CGU Fall 2020