

# 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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| • McKnight Brain Institute Professional Development Award (\$2,500), UF                            | May 2026  |
| • Center for Cognitive Aging and Memory Travel Award (\$1,500), UF                                 | May 2026  |
| • Trish Calvert Ring Graduate Student Research Award (\$3,000), UF                                 | Apr. 2026 |
| • College of Liberal Arts and Sciences Summer 2026 Travel Award (\$450), UF                        | Mar. 2026 |
| • Department of Psychology Travel Award (\$600), UF                                                | Mar. 2026 |
| • Jacquelin Goldman Spring Scholarship (\$8,000), UF                                               | Mar. 2026 |
| • McKnight Brain Institute Professional Development Award (\$715), UF                              | Dec. 2025 |
| • Department of Psychology Travel Award (\$750), UF                                                | Sep. 2025 |
| • NIA/Scientific Research Network on Decision Neuroscience and Aging Travel Award                  | Jul. 2025 |
| • Department of Psychology Travel Award (\$750), UF                                                | Mar. 2025 |
| • Jacquelin Goldman Spring Scholarship (\$8,000), UF                                               | Jan. 2025 |
| • Jacquelin Goldman Research Award (\$4,950), UF                                                   | Jan. 2025 |
| • NIA/Scientific Research Network on Decision Neuroscience and Aging Collaboration Award (\$3,500) | Jan. 2025 |
| • College of Liberal Arts and Sciences Spring 2025 Travel Award (\$400), UF                        | Dec. 2024 |
| • Sallie P. Asche Travel Award (\$500), Dallas Aging and Cognition Conference                      | Dec. 2024 |
| • Department of Psychology Travel Award (\$750), UF                                                | Dec. 2024 |

- Graduate Student Opportunity Award (\$105,000), UF 2024 – 2028
- Graduate Council Fellowship (\$54,492), UA 2023 – 2024
- Outstanding Research Performance Award (competitive), CSMU Spring 2020
- Honorable Mention Award (3<sup>rd</sup> 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 (1<sup>st</sup> place in poster presentation), TOTA Nov. 2018

## Publications (Google Scholar H-index: 4, Total Number of Citations: 279)

1. **Hung, C.C.**, Lin, T., Lung, T.C., Faulkner, R., Kennedy, K.M., & Ebner, N.C. (In Revision). The role of social white matter tracts in susceptibility to phishing in aging. *GeroScience*.
2. Liang, K. J.<sup>#</sup>, **Hung, C. C.<sup>#</sup>**, Ko, C. W., Lin, P. C., Chan, P. S., & Cheng, C. H. (2026). Error processing in major depressive disorder: a systematic review and meta-analysis of event-related potential studies. *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology*, 184, 2111503. <https://doi.org/10.1016/j.clinph.2026.2111503> (Impact Factor: 3.6; Ranking: Q1 in Clinical Neurology)
3. Cheng, C. H., **Hung, C. C.**, Wu, C. Y., Lin, C. M., Fang, J. T., & Integrated Systematic Geriatric Medicine Information and Solutions for Exploring Healthy Aging (ISDHA) (2025). Beyond the Pillow: Linking Subjective and Objective Sleep Measures to Gut Microbiome Composition in Community-Dwelling Older Adults. *Nature and science of sleep*, 17, 2657–2668. <https://doi.org/10.2147/NSS.S531730> (Impact Factor: 3.4; Ranking: Q2 in Clinical Neurology)
4. **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)
5. **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)
6. **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)
7. 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)
8. **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)

9. **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

1. **Hung, C.C.**, Lin, T., Lung, T.C., Faulkner, R., Polk, R.J., Spreng, R.N., Kennedy, K.M., & Ebner, N.C. (Jun. 2026). *The mediating role of anterior thalamic radiation in age differences in susceptibility to phishing*. Poster at the Organization for Human Brain Mapping 2026 Annual Meeting, Bordeaux, France.
2. Goyer, G.A.<sup>\*</sup>, Wright, K.A., **Hung, C.C.**, Lin, T., Krol, K., Perkeybile, A.M., Nazarloo, H. P., Carter, C.S., Connelly, J., & Ebner, N.C. (Apr. 2026). *Methylation of the oxytocin receptor gene modifies the association between oxytocin and chronic pain risk in older adults*. Poster at the Psychology Graduate Student Organization Undergraduate Research Forum, Gainesville, FL, USA.
3. Wright, K.A., Goyer, G.A.<sup>\*</sup>, **Hung, C.C.**, Lin, T., Krol, K., Perkeybile, A.M., Nazarloo, H. P., Carter, C.S., Connelly, J., & Ebner, N.C. (Apr. 2026). *Individual differences in the oxytocin system and vulnerability to chronic pain in older age*. Invited talk at the Robert Levitt Awards for Student Research on Aging, Gainesville, FL, USA.
4. Kelleher, A.K.<sup>\*</sup>, **Hung, C.C.**, & Ebner, N.C. (Apr. 2026). *Empathy as a Determinant of Susceptibility to Deception in Older Adults*. Poster at the Center for Cognitive Aging and Memory Research Day, Gainesville, FL, USA.
5. Wright, K.A., Goyer, G.A.<sup>\*</sup>, **Hung, C.C.**, Lin, T., Krol, K., Perkeybile, A.M., Nazarloo, H. P., Carter, C.S., Connelly, J., & Ebner, N.C. (Mar. 2026). *Individual differences in the oxytocin system and vulnerability to chronic pain in older age*. Poster at the Robert Levitt Awards for Student Research on Aging, Gainesville, FL, USA.
6. Goyer, G. A.<sup>\*†</sup>, Wright, K. A., **Hung, C.C.**, Lin, T., Krol, K., Perkeybile, A.M., Nazarloo, H. P., Carter, C.S., Connelly, J., & Ebner, N. C. (Mar. 2026). *Methylation of the oxytocin receptor gene modifies the association between oxytocin and chronic pain risk in older adults*. CEPO/Psi Chi Distinguished Undergraduate Research Poster at the Southeastern Psychological Association 72<sup>nd</sup> Annual Meeting, New Orleans, LA, USA. <sup>†</sup>Regional Honors Award for Best Poster (value: \$400)
7. Goyer, G.A.<sup>\*</sup>, Wright, K.A., **Hung, C.C.**, Lin, T., Krol, K., Perkeybile, A.M., Nazarloo, H. P., Carter, C.S., Connelly, J., & Ebner, N.C. (Feb. 2026). *Methylation of the oxytocin receptor gene modifies the association between oxytocin and chronic pain risk in older adults*. Poster at the North Central Florida Society for Neuroscience Annual Conference, Gainesville, FL, USA.
8. Kelleher, A.K.<sup>\*</sup>, **Hung, C.C.**, Lin, T., & Ebner, N.C. (Feb. 2026). *The mediating role of inferior longitudinal fasciculus integrity in age-related susceptibility to deception*. Poster at the North Central Florida Society for Neuroscience Annual Conference, Gainesville, FL, USA.
9. **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.

10. **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.
11. **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.
12. **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.
13. **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.
14. **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-I SPECT to assess Parkinson's disease: A practical validation*. Poster at the 37th Annual Congress of the TOTA, Kaohsiung, Taiwan.

\*Denotes an undergraduate mentee

## Grants

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| Nov. 2025 | <b>McKnight Research Foundation Cognitive Aging and Memory Invention Core Pilot Grant</b><br>Project Title: <i>Microbiome–Oxytocin Interplay in Cognitive Aging and Social Decision Making: A Randomized Cross-Over Clinical Intervention and Preclinical Mechanistic Analysis</i><br>Role: <b>Co-I</b> (PIs: Natalie Ebner, Ph.D. & Abbi Hernandez, Ph.D.)<br>Funded (\$150,000) |
| Jun. 2025 | <b>Scientific Research Network on Decision Neuroscience and Aging Pilot Grant (NIA 1R24AG076847)</b><br>Project Title: <i>Microbiome–Oxytocin Interplay in Social Decision Making in Aging: A Randomized, Double-Blinded, Cross-Over Pilot Trial</i><br>Role: <b>PI</b> (Co-Is: Stephanie Washburn, B.S. & Natalie Ebner, Ph.D.)<br>Not Funded                                    |

## Ad-hoc Reviewer

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| <i>Brain Imaging and Behavior</i> | Jul. 2025 |
| <i>Nutritional Neuroscience</i>   | Jun. 2025 |
| <i>BMC Neurology</i>              | Mar. 2025 |
| <i>Brain Topography</i>           | Nov. 2024 |

Related Skills

- Neuroimaging analysis: Explore DTI, Pipeline for Analyzing brain Diffusion images (PANDA), DSI Studio, MRtrix3, QSIPrep, Computational Anatomy Toolbox (CAT), SPM, Lesion Segmentation Tool (LST), 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

Research Experience

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| <b>Doctoral Student</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Aug. 2023 – present   |
| <b>Social-Cognitive and Affective Development Lab</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Jun. 2024 – present   |
| <b>Principal Investigator: Natalie Ebner, Ph.D.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |
| <b>Department of Psychology, UF</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |
| <ul style="list-style-type: none"><li>- Project: <i>Microbiome Oxytocin Interplay in Brain Aging (Dissertation work).</i><ul style="list-style-type: none"><li>■ <b>Responsibilities</b> include identifying novel research directions, designing research, and communicating with research collaborators.</li></ul></li><li>- Project: <i>Aging OnLine.</i><ul style="list-style-type: none"><li>■ <b>Responsibilities</b> include analyzing diffusion-weighted imaging data and writing research papers.</li></ul></li></ul>                                                                                                                |                       |
| <b>Cognitive Neuroimaging Lab</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Jan. 2024 – May 2024  |
| <b>Principal Investigator: Sharlene Newman, Ph.D.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |
| <b>Department of Psychology, UA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |
| <ul style="list-style-type: none"><li>- Project: <i>The role of traumatic brain injury and psychosocial stress in cognitive aging.</i><ul style="list-style-type: none"><li>■ <b>Responsibilities</b> included identifying novel research directions and communicating with research collaborators.</li></ul></li></ul>                                                                                                                                                                                                                                                                                                                       |                       |
| <b>Cognition, Brain &amp; Autism Lab</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Aug. 2023 – Dec. 2023 |
| <b>Principal Investigator: Rajesh Kana, Ph.D.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |
| <b>Department of Psychology, UA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |
| <ul style="list-style-type: none"><li>- Project: <i>The differences of language and reading networks between autistic children and typically developing controls using data from the Autism Brain Imaging Data Exchange.</i><ul style="list-style-type: none"><li>■ <b>Responsibility</b> included writing research papers.</li></ul></li><li>- Project: <i>Activation likelihood estimation meta-analysis of facial emotion perception in autism.</i><ul style="list-style-type: none"><li>■ <b>Responsibilities</b> included assisting with teaching a lab member to perform meta-analysis and writing research papers.</li></ul></li></ul> |                       |
| <b>Research Assistant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 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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- Graduate Instructor, General Psychology, UF Spring 2026  
Faculty Supervisor: Jamie Newland, Ph.D.
- Teaching Assistant, Issues and Concepts in Gerontology, UF Fall 2025  
Instructor: Susan Bluck, Ph.D.
- Guest lecturer, Lifespan Development Research, UF Fall 2024  
Lecture: *Meta-Analysis*  
Instructor: Natalie Ebner, Ph.D.
- Teaching Assistant, Biology Laboratory, CGU Spring 2022
- Teaching Assistant, Practical Anatomy, CGU Spring 2021
- Teaching Assistant, Introduction to Occupational Therapy, CGU Fall 2020

## Mentorship Experience

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Mentee: Gabriella Goyer Aug. 2025 – Apr. 2026  
*Senior Thesis: Effects of Intranasal Oxytocin on the Relationship between Sleep and Pain in Older Adults (Magna Cum Laude)*  
PI: Natalie Ebner, Ph.D.

Mentee: Alyssa Kelleher (now a master's student at University of South Florida) Aug. 2025 – Apr. 2026  
*Senior Thesis: Empathy as a Determinant of Susceptibility to Phishing in Older Adults (Magna Cum Laude)*  
PI: Natalie Ebner, Ph.D.

### Leadership Experience

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**Treasurer**, North Central Florida Chapter of the Society for Neuroscience Aug. 2025 – Jul. 2026

### Professional Membership

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Organization for Human Brain Mapping 2025 – present