Chi-Lin Yu

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EDUCATION

University of Michigan (UM), Ann Arbor, United States   2019/9-2024/4(Expected)

Degree: Ph.D. Psychology, Developmental Area

National Taiwan University (NTU), Taipei, Taiwan   2017/2-2018/6

Degree: M.S. Psychology (Thesis: *"Neural Correlates of Theory of Mind in Typically Developing Youths and Youths with Autism Spectrum Disorder"*)

National Cheng Kung University (NCKU), Tainan, Taiwan   2012/9-2016/7

Degree: B.S. Psychology

RESEARCH INTERESTS

I focus on social cognition in children and adults via behavioral experiments, neuroimaging techniques, and computational modeling. Specific topics include the underlying mechanism of Theory of Mind (ToM), the development of ToM, and how ToM becomes dysfunctional in clinical populations.

PUBLICATIONS

1. **Yu, C. L.**, Lee, S., Wellman, H. M., & Olson S. L. (Under Review). Theory of Mind and Executive Function Underlie Childhood Psychotic Symptoms.

2. **Yu, C. L.**, Kovelman, I., & Wellman, H. M. (Accepted). How Bilingualism Informs us about Theory of Mind Development. *Child Development Perspectives.*

3. **Yu, C. L.**, Stanzione, C. M., Wellman, H. M., & Lederberg, A. R. (2021). Theory of Mind Development in Young Deaf Children with Early Hearing Provisions. *Psychological Science*, *32*(1), 109-119.

4. **Yu, C. L.**, Chen, C. C., Yang, Z. Y., & Chou, T. L. (2020). Multi-Time Points Analysis: A Time Course Analysis with Functional Near-Infrared Spectroscopy. *Behavior Research Methods*, *52*(4), 1700–1713.

5. Chen, D. Y., **Yu, C. L. (*As the co-first author*)**, Su, C. W., Liao, K. H., & Hsiao, H. Y. (2019). Cognitive Abilities in the Game of Go during the Opening, Middle, and Endgame Phases: When Experimental Psychology Meets Artificial Intelligence. *Chinese Journal of Psychology*, *61*(3), 173-196.

6. **Yu, C. L.**, & Chou, T. L. (2018). A Dual Route Model of Empathy: A Neurobiological Prospective. *Frontiers in Psychology*, *9*(2212), 1-5.

7. **Yu, C. L.**, & Sheu, C. F. (2018). EFAshiny: An User-Friendly Shiny Application for Exploratory Factor Analysis. *Journal of Open Source Software*, *3*(22), 567.

8. **Yu, C. L.**, Wang, M. Y., & Hu, J. F. (2016). Valence processing of first impressions in the dorsomedial prefrontal cortex: a near-infrared spectroscopy study. *NeuroReport*, *27*(8), 574-579.

SELECTED PRESENTATIONS

1. **Yu, C. L.**, Heng, J., Wellman, H. (2021, April). *A Meta-Analysis of Progressions in Theory-of-Mind Understandings: Theory of Mind Scale Findings Across Different Contexts - An Initial Exploration.* Symposium presentation at the 2021 Biennial Meeting of the Society for Research in Child Development (SRCD), Virtual.

2. **Yu, C. L.**, Lee, S., Wellman, H. M., & Olson S. L. (2021, April). *Theory of Mind and Executive Function Underlie Childhood Psychotic Symptoms.* Poster presented at the 2021 Biennial Meeting of the Society for Research in Child Development (SRCD), Virtual.

3. **Yu, C. L.**, Sun, X., Zhang, K. H., Kim, J., Marks, R., Nickerson, N., … Kovelman, I. (2020, October). *Cross-Language Neural Interconnection of Phonological Awareness and Morphological Awareness in Simultaneous Chinese-English Bilingual Children.* Poster presented at the 12th Annual Meeting of Society for the Neurobiology of Language (SNL), Virtual.

4. **Yu, C. L.**, Lee, S. H., Chen T., & Liao, C. C. (2019, June). *The Influence of Family Reading History on Chinese Classifier Processing: An fMRI Study.* Poster presented at the 2019 Annual Meeting of Organization for Human Brain Mapping (OHBM), Rome.

5. **Yu, C. L.**, Hwang, T. J., & Chou, T. L. (2018, October). *Neural Changes Associated with Semantic Processing in Aged Schizophrenia.* Poster presented at the 17th International Conference on the Processing of East Asian Languages and the 9th Conference on Language, Discourse, and Cognition (ICPEAL 17 – CLDC 9), Taipei.

6. **Yu, C. L.**, Lee, S. H., Gau S., & Chou, T. L. (2018, June). *Aberrant Neural Organization of Theory of Mind in Youths with Autism.* Poster presented at the 2018 Annual Meeting of Organization for Human Brain Mapping (OHBM), Singapore.

7. **Yu, C. L.**, Chen, H. C., Yang, Z. Y., & Chou, T. L. (2018, March). *Multi-Time Points Analysis: A Time Course Analysis with Functional Near-Infrared Spectroscopy.* Poster presented at the 3rd NTU-Kyoto University International Symposium for Cognitive Neuroscience, Taipei.

8. **Yu, C. L.**, & Sheu, C. F. (2017, November). *EFAshiny: A shiny application for exploratory factor analysis.* Poster presented at 47th annual meeting of the Society for Computers in Psychology (SCiP).

9. **Yu, C. L.**, Causeur, D., Shen, I. H., & Sheu, C. F. (2016, November). *Using R to explore ERP data.* Symposium presentation at the 46th annual meeting of the Society for Computers in Psychology (SCiP), Boston.

10. **Yu, C. L.**, Wang, M. Y., Chen, P. W., Yap, J. Y., Chang, J. S., Hsiao, Y. R., & Hu, J. F (2015, July). *Using false belief task to explore the effect of empathy situation on theory of mind function.* Poster presented at the 37th Annual Cognitive Science Society Meeting, Pasadena.

AWARDS & FELLOWSHIPS

2021 The Lorraine Nadelman Early Graduate Student Research Award

2021 Rackham International Student Fellowship and the Chia-Lun Lo Fellowship

2020 Best Paper Award for Chinese Journal of Psychology in 2019 Academic Year

– *This award is given to one best paper from the papers published in the Chinese Journal of Psychology from 2019.*

2019 Weinberg Institute for Cognitive Science Graduate Fellowship

2018 Taiwan Government PhD Scholarship for Studying Abroad: 4 years funding for studying PhD in the U.S.

– *This scholarship is awarded to one student per year who has the best academic achievement in psychology/neuroscience.*

2018 Best Paper Award for the Annual Meeting of Taiwanese Society of Child and Adolescent Psychiatry

2018 Taiwan Ministry of Science and Technology International Conference Travel Grant

2016 NCKU President Wei-Noon Wang Memorial Scholarship

– *This scholarship is awarded to the top 10 best students with outstanding academic records from more than twenty thousand students in the entire university.*

2015 The Title of Outstanding Student for the Academic Achievement

2015 Taiwan Ministry of Science and Technology Research Scholarship

TEACHING EXPERIENCE

2020 Graduate Student Instructor (GSI), Introduction to Developmental Psychology, Mentor: Dr. Kathleen Jodl

2018 Teaching Assistant, Brain and Language Course, Mentor: Prof. Tai-Li Chou

2017 Teaching Assistant, General Psychology Course, Mentor: Prof. Tai-Li Chou

2016 Teaching Assistant, Cognitive Neuroscience Course, Mentor: Prof. Shu-Lan Hsieh

2016 Teaching Assistant, Assessment Practicum Developmental Psychology Course, Mentor: Prof. Jon-Fan Hu

2016 Teaching Assistant, Seminar on Emotion and Memory Course, Mentor: Prof. Der-Yow Chen

JOURNAL REVIEWER

– Advances in Methods and Practices in Psychological Science

– Journal of Psychosocial Oncology

RESEARCH EXPERIENCE

UM, Young Child Social Cognition Project, Mentor: Prof. Henry Wellman

– Explore the relationship between Theory of Mind (ToM) and language development in deaf children with cochlear implants or hearing aids

– Develop a robust and valid ToM scale for preschoolers and school-age children

– Meta-analyze and summarize ToM studies in the literature to provide capture specificity, commonality, and generalizability of ToM development

– Examine the relationship between bilingualism and ToM

UM, Language & Literacy Lab, Mentor: Prof. Ioulia Kovelman

– Use near functional infrared spectroscopy (fNIRS) to examine the neural development of bilingualism in Chinese-English bilingual children

– Implement naturalistic listening designs to investigate the underlying mechanism of ToM as well as language processing in typically developing children and children with dyslexia

NTU, Language Neuroscience Laboratory, Mentor: Prof. Tai-Li Chou

– Develop functional magnetic resonance imaging (fMRI) studies to investigate the underlying mechanism of ToM in typically developing children and children with autism spectrum disorder (ASD)

– Design a new analysis method implementing machine learning algorithms to analyze fNIRS data.

– Establish a conceptual model to interpret the mechanism of human empathy.

NCKU, Cognitive and Affective Neuroscience Laboratory, Mentor: Prof. Der-Yow Chen

– Develop a hyper-scanning paradigm with multi-fMRI scanners to investigate the neural underpinnings of social interaction.

– Probe the underlying mentalizing processes and cognitive abilities to play Chinese Go from experimental psychology and artificial intelligence perspectives.

NCKU, Institute of Education, Mentor: Prof. Ching-Fan Sheu

– Design a user-friendly web application for exploratory factor analysis (EFA) using the shiny package in R.

– Develop exploratory graphical tools for Event-Related Potentials (ERPs) and fNIRS data analysis.

National Tsing Hua University, Developmental Language Neuroscience Laboratory, Mentor: Prof. Shu-Hui Lee

– Develop fMRI studies to explore the neural correlates of Chinese classifiers in typically developing children.

– Design behavioral and neuroimaging experiments to investigate the aberrant neural mechanisms of ToM and emotion-related semantic processing in patients with alexithymia.

NCKU, Language Acquisition and Cognitive Development Laboratory, Mentor: Prof. Jon-Fan Hu

– Pioneer fNIRS research in Taiwan to explore the neural mechanism of first impression formation.

– Develop fMRI studies to investigate the underlying relationships between ToM and humor processing.