Chi-Lin Yu

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Research Interests

My research focuses on **young children's acquisition, learning, and development of social-cognitive understanding**, studied via behavioral experiments, neuroimaging, psychometrics/statistics/data science, and computational modeling. Specific topics include the underlying mechanism of theory of mind, the development of theory of mind, and how theory of mind varies across different social-cultural contexts and diverse samples (e.g., gender, race, ethnicity, social classes, cultures, bilingualism, deafness, and neurodiversity).

Education

2019–Present	Ph.D., Psychology, University of Michigan, Ann Arbor, United States
	Dissertation (In Progress): *Sources of heterogeneity in developing theory of mind: A multimethod perspective*
	Advisors: Henry Wellman & Ioulia Kovelman
	Expected graduation: Summer 2024
2017–2018	M.S., Psychology, National Taiwan University, Taipei, Taiwan
	Thesis: *Neural correlates of theory of mind in typically developing youths and youths with autism spectrum disorder: an fMRI study*
	Advisor: Tai-Li Chou
2012–2016	B.S., Psychology, National Cheng Kung University, Tainan, Taiwan

Publications

Peer-Reviewed Journal Articles (Google Scholar; First Author : N = 10)

[20] **Yu, C. L.**, & Wellman, H. M. (*In Press*). Where do differences in theory-of-mind development come from? An agent-based model of social interaction and theory-of-mind. *Frontiers in Developmental Psychology.* https://doi.org/10.3389/fdpys.2023.1237033

[19] Hong, S., **Yu, C. L.**, Rousson, A., Bender, A., Fedina, L., Herrenkohl, T. (*In Press*). Exploring the impact of adversity history on internalizing symptoms in adulthood: Analysis of types, repetition, variety, and timing of past adversity. *Journal of Interpersonal Violence.* https://doi.org/10.1177/08862605231198056

[18] Zhang, K., Sun, X., **Yu, C. L.**, Eggleston, R., Marks, R., Nickerson, N., Caruso, V., Hu, X. S., Tardif, T., Chou., T. L., Booth, J. R. & Kovelman, I. (2023). Phonological and morphological literacy skills in English and Chinese: A cross-linguistic neuroimaging comparison of Chinese-English bilingual and monolingual English children. *Human Brain Mapping, 44*(13), 4812–4829. https://doi.org/10.1002/hbm.26419

[17] **Yu, C. L.** & Wellman, H. M. (2023). All humans have a "theory of mind." *Journal of Autism and Developmental Disorders*, *53*, 2531–2534. https://doi.org/10.1007/s10803-022-05584-1

[16] Sun, X., Marks, R., Eggleston, R., Zhang K., **Yu, C. L.**, Nickerson, N., Caruso, V., Chou., T. L., Hu., X. S., Tardif, T., Booth, J.R., Beltz, A.M., & Kovelman, I. (2023). Sources of heterogeneity in functional connectivity during English word processing in bilingual and monolingual children. *Neurobiology of Language*, *4*(2), 198-220. https://doi.org/10.1162/nol_a_00092

[15] Sun, X., Marks, R., Eggleston, R, Zhang, K., Lau, C., **Yu, C. L.**, Nickerson, N., & Kovelman, I. (2023). Impacts of the COVID-19 disruption on the language and literacy development of monolingual and heritage bilingual children in the United States. *Reading and Writing*, *36*(2), 347-375. https://doi.org/10.1007/s11145-022-10388-x

[14] Marks, R., Labotka, D., Sun, X., Nickerson, N., Zhang, K., Eggleston, R., **Yu, C. L.**, Uchikoshi Y., Hoeft F., & Kovelman, I. (2023). Morphological awareness and its role in early word reading in English monolinguals, Spanish–English, and Chinese–English simultaneous bilinguals. *Bilingualism: Language and Cognition*, *26*(2), 268-283. https://doi.org/10.1017/S1366728922000517

[13] Sun, X., Marks, R., Zhang, K., **Yu, C. L.**, Eggleston, R., Nickerson, N., Chou, T. L., Hu, X. S., Tardif, T., Satterfield, T., & Kovelman, I. (2023) Brain bases of English morphological processing: A comparison between Chinese-English, Spanish-English bilingual, and English monolingual children. *Developmental Science*, *26*(1), e13251. https://doi.org/10.1111/desc.13251

[12] **Yu, C. L.** & Wellman, H. M. (2022). Young children treat puppets and dolls like real persons in theory of mind research: A meta-analysis of false-belief understanding across ages and countries. *Cognitive Development*, *63*, 101197. https://doi.org/10.1016/j.cogdev.2022.101197

[11] Wellman, H. M., & **Yu, C. L.** (2022). Theory of puppets or theory of mind? Misunderstanding how children construe puppets in psychological research: A commentary on Packer and Moreno-Dulcey (2022). *Cognitive Development*, *63*, 101218. https://doi.org/10.1016/j.cogdev.2022.101218

[10] Marks, R. A., Eggleston, R. L., Sun, X., **Yu, C. L.**, Zhang, K., Nickerson, N., Hu, X. S., & Kovelman, I. (2022). The neurocognitive basis of morphological processing in typical and impaired readers. *Annals of Dyslexia*, *72*(2), 361–383. https://doi.org/10.1007/s11881-021-00239-9

[9] Sun, X., Zhang, Z., Marks, R., Karas, Z., Eggleston, E., Nickerson, N., **Yu, C. L.**, Wagley, N., Hu, X. S., Caruso, V., Chou, T. L., Satterfield, T., Tardif, T., & Kovelman, I. (2022). Morphological and phonological processing in English monolingual, Chinese-English bilingual, and Spanish-English bilingual children: An fNIRS neuroimaging dataset. *Data in Brief*, *42*, 108048. https://doi.org/10.1016/j.dib.2022.108048

[8] Sun, X., Zhang K., Marks, R., Nickerson, N., Eggleston, R., **Yu, C. L.**, Chou., T.

L., Tardif, T., & Kovelman, I. (2022). What's in a word? Cross-linguistic influences on Spanish-English and Chinese-English bilingual children's word reading development. *Child Development*, *93*(1), 84-100. https://doi.org/10.1111/cdev.13666

[7] **Yu, C. L.**, Kovelman, I., & Wellman, H. M. (2021). How bilingualism informs us about theory of mind development. *Child Development Perspectives*, *15*(3), 154-159. https://doi.org/10.1111/cdep.12412

[6] **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. https://doi.org/10.1177/0956797620960389

[5] **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. https://doi.org/10.3758/s13428-019-01344-9

[4] Chen, D. Y., **Yu, C. L. (co-first)**, 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. https://doi.org/10.6129/CJP.201909_61(3).0001

[3] **Yu, C. L.**, & Chou, T. L. (2018). A dual route model of empathy: A neurobiological perspective. *Frontiers in Psychology*, *9*(2212), 1-5. https://doi.org/10.3389/fpsyg.2018.02212

[2] **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. https://doi.org/10.21105/joss.00567

[1] **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. https://doi.org/10.1097/WNR.0000000000000571

Working Papers (full-text available upon request)

[8] **Yu, C. L.**, Eggleston, R., Zhang, K., Nickerson, N., Sun, X., Marks, R., Hu, X. S., Brennan, J. R., Wellman, H. M., & Kovelman, I. (*Under Revision*) Neural processing of children's theory of mind in a naturalistic story-listening paradigm. https://psyarxiv.com/8ns5v

[7] **Yu, C. L.**, Lee, S., Wellman, H. M., & Olson, S. L. (*Under Revision*). Theory of mind and executive function underlie childhood psychotic symptoms.

[6] **Yu, C. L.**, Gau, S. F., Lin, H. Y., Lai, M. C., Lee, S. H. & Chou, T. L. (*Under Revision*) Atypical neural factor structures underlying theory of mind processing in autism: an fMRI study.

[5] Eggleston, R., Marks, R., Sun, X., **Yu, C. L.**, Zhang, K., Nickerson, N., Caruso, V., Hu, X. S., & Kovelman, I. (*Under Review*). Brain bases of morphological awareness differ between typical readers and children with dyslexia.

[4] Nickerson, N., Sun, X., Caruso, V., Zhang, K., **Yu, C. L.**, Eggleston, R., Chaku, N., Hu, X. S., Satterfield, T. & Kovelman, I. (*Under Review*). What's in the sound? Common and language-specific patterns in brain activation and functional connectivity for phonological awareness in Spanish-English bilinguals.

[3] **Yu, C. L.**, Stanzione, C. M., Branum-Martin, L., Wellman, H. M., & Lederberg, A. R. (*In Preparation*). Conversational-communicative experience and theory of mind: A study of diverse deaf child samples.

[2] **Yu, C. L.**, & Wellman, H. M. (*In Preparation*). A meta-analysis of progressions in theory-of-mind understandings: Theory-of-mind scale findings across different contexts.

[1] **Yu, C. L.**, Hardi, F. A., Tillem, S., Michael, C., Zhang, Y., Mitchell, C., Hyde, L. W., & Monk, C. S. (*In Preparation for Stage 1 Registered Report*). Longitudinal associations between environmental unpredictability and transient states of dynamic functional connectivity networks: A registered report.

Selected Talks and Presentations (as a presenter)

[13] **Yu, C. L.**, Eggleston, R., Zhang, K., Nickerson, N., Sun, X., Marks, R., Hu, X. S., Brennan, J. R., Wellman, H. M., & Kovelman, I. (2023, October). *Using a naturalistic listening paradigm to study brain bases of language comprehension in developmental dyslexia.* Symposium presentation at the 2023 Annual Reading, Literacy, & Learning Conference of the International Dyslexia Association (IDA), Columbus.

[12] **Yu, C. L.**, Stanzione, C. M., Branum-Martin, L., Wellman, H. M., & Lederberg, A. R. (2023, March). *Theory of mind development in deaf children: The effects of language exposure and usage.* Poster presented at the 2023 Biennial Meeting of the Society for Research in Child Development (SRCD), Salt Lake City.

[11] **Yu, C. L.** & Wellman, H. M. (2023, March). *Where do differences in theory-of-mind development come from? An agent-based model of social interaction and theory-of-mind.* Poster presented at the 2023 Biennial Meeting of the Society for Research in Child Development (SRCD), Salt Lake City.

[10] **Yu, C. L.**, Eggleston, R., Kovelman, I., & Brennan, J. R. (2022, April). *Using functional near-infrared spectroscopy to study developmental aspects of naturalistic narrative comprehension.* Symposium presentation at the 2022 Biennial Meeting of the Cognitive Development Society (CDS), Madison.

[9] **Yu, C. L.** & Wellman, H. M. (2022, April). *Young children treat puppets (and dolls and pictures) like real persons.* Poster presented at the 2022 Biennial Meeting of the Cognitive Development Society (CDS), Madison.

[8] **Yu, C. L.**, Heng, J., & Wellman, H. M. (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.

[7] **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.

[6] **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.

[5] **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 the Organization for Human Brain Mapping (OHBM), Rome.

[4] **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 the Organization for Human Brain Mapping (OHBM), Singapore.

[3] **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), Vancouver.

[2] **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.

[1] **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 (CogSci), Pasadena.

Grants and Awards

2019-2024	Taiwan Government Ph.D. Scholarship for Studying Abroad: 4 years funding for studying Ph.D. in the United States ($200,000 USD)
2023-2024	Rackham Predoctoral Fellowship ($36,000 USD)
2023	University of Michigan Psychology Departmental Associate
2023	Rackham One-Term Dissertation fellowship ($12,000 USD)
2023	Hagen-Stevenson Dissertation Research Award ($1,500 USD)
2023	University of Michigan Psychology Dissertation Grant ($1,000 USD)
2023	Society for Research in Child Development (SRCD) Graduate Student Travel Award ($300 USD)
2023	Rackham Conference Travel Grant ($900 USD)
2021-2023	Funding for the Summer Program in Quantitative Methods of Social Research ($9,200 USD)

2021	The Inter-university Consortium for Political and Social Research (ICPSR) Diversity Scholarship ($2,500 USD)
2021	The Lorraine Nadelman Early Graduate Student Research Award ($750 USD)
2021	Rackham International Student Fellowship and the Chia-Lun Lo Fellowship ($10,000 USD)
2020	Rackham Precandidate Graduate Student Research Grant ($1,500 USD)
2020	Best Paper Award for *Chinese Journal of Psychology* in 2019 Academic Year
2019	Weinberg Institute for Cognitive Science Graduate Fellowship ($12,000 USD)
2018	Best Paper Award for the Annual Meeting of Taiwanese Society of Child and Adolescent Psychiatry ($200 USD)
2018	Taiwan Ministry of Science and Technology International Conference Travel Grant ($1,500 USD)
2016	National Cheng Kung University President Wei-Noon Wang Memorial Scholarship ($400 USD)
2015	Outstanding Student for Academic Achievement at National Cheng Kung University ($100 USD)
2015	Taiwan Ministry of Science and Technology Research Scholarship ($1,500 USD)

Teaching

2023	Graduate Student Instructor, Introduction to Developmental Psychology (Undergraduate)
2023	Primary Instructor, Statistics and R Programming (Undergraduate)
2023	Guest Instructor, Introduction to Cognitive Neuroscience and its Application in Developmental/Educational Context (Graduate)
2022	Primary Instructor, Open Science: What, Why, and How? (Undergraduate)
2022	Primary Instructor, Statistics and Data Analysis (Undergraduate)
2021	Primary Instructor, Open Science: What, Why, and How? (Undergraduate)
2021	Graduate Student Instructor, Psychometric Theory (Graduate)
2020	Graduate Student Instructor, Introduction to Developmental Psychology (Undergraduate)
2019	Teaching Assistant, Psychology and Modern Life (Undergraduate)
2018	Teaching Assistant, Brain and Language (Graduate)
2017	Teaching Assistant, General Psychology (Undergraduate)

2016	Teaching Assistant, Cognitive Neuroscience (Undergraduate)
2016	Teaching Assistant, Assessment Practicum Developmental Psychology (Undergraduate)
2016	Teaching Assistant, Seminar on Emotion and Memory (Undergraduate)

Service

Ad-Hoc Journal Reviewer

- *Advances in Methods and Practices in Psychological Science*
- *Journal of Experimental Child Psychology*
- *Developmental Psychology*
- *Journal of Psychosocial Oncology (Editorial Board)*
- *International Journal of Bilingualism*
- *Language and Education*
- *Frontiers in Psychology (Editorial Board)*
- *Cognitive Science*

University Service

2020-Present	Mentor, Michigan Summer Program in Cognition and Early Development (MSPICED)
2020-Present	Mentor, University of Michigan Undergraduate Research Opportunities Program (UROP)
2019-Present	Mentor, University of Michigan Summer Research Opportunities Program (SROP)