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).

Academic Appointments

2024 – Assistant Professor, Department of Psychology, Oklahoma State University, Stillwater, United States

Education

2019 – 2024 Ph.D., Psychology, University of Michigan, Ann Arbor, United States

Dissertation: Developing a theory of mind: A multi-method perspective

Primary Advisor: Henry M. Wellman

2017 – 2018 M.S., Psychology, National Taiwan University, Taipei, Taiwan

2012 – 2016 B.S., Psychology, National Cheng Kung University, Tainan, Taiwan

Publications (Google Scholar)

⁺ denotes current or former mentee. Second or last-author position with mentees as first-authors denotes senior authorship (lead Principal Investigator). First and senior authors have the largest roles.

Preprints (full-text available upon request)

- [5] Yu, C. L., Lee, S., Wellman, H. M., & Olson, S. L. (*Under Revision*). Theory of mind and executive function underlie childhood psychotic symptoms.
- [4] 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.
- [3] Yu, C. L., Stanzione, C. M., Branum-Martin, L., Wellman, H. M., & Lederberg, A. R. (*Under Review*). Conversational-communicative experience and theory of mind: A study of diverse deaf child samples.
- [2] 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 Review*) Neural processing of children's theory of mind in a naturalistic story-listening paradigm. https://psyarxiv.com/8ns5v
- [1] Yu, C. L., & Wellman, H. M. (*Under Review*). A meta-analysis of progressions in theory-of-mind understandings: Theory-of-mind scale findings across different contexts.

Published Peer-Reviewed Journal Articles

- [23] Zhang, K., Sun, X., Flores-Gaona, Z., Yu, C. L., Eggleston, R., Nickerson, N., Caruso, V., Tardif, T., & Kovelman, I. (*In Press*). Cross-linguistic transfer in bilingual children's phonological and morphological awareness skills: A longitudinal perspective. *Bilingualism: Language and Cognition*.
- [22] Eggleston, R., Marks, R., Sun, X., Yu, C. L., Zhang, K., Nickerson, N., Caruso, V., Hu, X. S., & Kovelman, I. (*In Press*). Brain bases of morphological awareness differ between typical readers and children with dyslexia. *Journal of Speech, Language, and Hearing Research*.
- [21] Nickerson, N., Sun, X., Caruso, V., Zhang, K., **Yu, C. L.**, Eggleston, R., Chaku, N., Hu, X. S., Satterfield, T. & Kovelman, I. (*In Press*). What's in the sound? Common and language-specific patterns in brain activation and functional connectivity for phonological awareness in Spanish-English bilinguals. *Mind, Brain, and Education*. https://doi.org/10.1111/mbe.12410
- [20] Hong, S., Yu, C. L., Rousson, A., Bender, A., Fedina, L., & Herrenkohl, T. (2024). 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*, 39(3-4), 569-586. https://doi.org/10.1177/08862605231198056
- [19] Yu, C. L., & Wellman, H. M. (2023). 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, 1, 1237033. https://doi.org/10.3389/fdpys.2023. 1237033
- [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.000000000000000001

Published Peer-Reviewed Conference Proceedings

- [2] ⁺Li, Z., Thomas, T., **Yu, C. L.**, & Xu, Y. (*In Press*). "I Said Knight, Not Night!": Children's Communication Breakdowns and Repairs with AI Versus Human Partners. *Proceedings of the 2024 ACM Interaction Design and Children (IDC) Conference*.
- [1] ⁺Zhang, C., Liu, X., ⁺Ziska, K., Jeon, S., **Yu, C. L.**, & Xu, Y. (2024). Mathemyths: Leveraging Large Language Models to Teach Mathematical Language through Child-AI Co-Creative Storytelling. *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems*, 274, 1-23. https://doi.org/10.1145/3613904.3642647

Research Presentations

Invited Talks and Colloquia

- [12] Yu, C. L. (2024, April). Developmental Training Grant Colloquium, Department of Psychology, University of Michigan, Ann Arbor.
- [11] Yu, C. L. (2024, March). Developmental Studies Group, Department of Psychology, Harvard University, Boston.
- [10] Yu, C. L. (2024, January). Department of Psychology, National Cheng Kung University, Tainan, Taiwan.
- [9] Yu, C. L. (2024, January). Department of Psychology, National Chung Cheng University, Chiayi, Taiwan.
- [8] Yu, C. L. (2023, December). Department of Psychology, University of Wisconsin–Madison, Madison.
- [7] Yu, C. L. (2023, November). Department of Psychology, Oklahoma State University, Stillwater.
- [6] Yu, C. L. (2023, July). Social Learning Lab, Department of Psychology, Stanford University, Palo Alto.

- [5] Yu, C. L. (2023, March). Developmental Area Colloquium, Department of Psychology, University of Michigan, Ann Arbor.
- [4] Yu, C. L. (2022, June). Michigan Summer Program in Cognition and Early Development, Department of Psychology, University of Michigan, Ann Arbor.
- [3] Yu, C. L. (2021, June). Michigan Summer Program in Cognition and Early Development, Department of Psychology, University of Michigan, Ann Arbor.
- [2] Yu, C. L. (2021, March). Developmental Area Colloquium, Department of Psychology, University of Michigan, Ann Arbor.
- [1] Yu, C. L. (2020, November). Language and Cognition Colloquium, Department of Psychology, University of Michigan, Ann Arbor.

Selected Conference Presentations (as the first or senior author)

- [19] ⁺Hurtado, A., **Yu, C. L.**, Xu Y., & Kovelman, I. (2024, March). *How children learn with artificial intelligence: A study of dialogic story listening*. Poster presented at the 2024 Annual Marshall M. Weinberg Symposium, Ann Arbor.
- [18] Yu, C. L., Eggleston, R., Brennan, J. R., Wellman, H. M., & Kovelman, I. (2024, March). Neural processing of children's theory of mind in a naturalistic story-listening paradigm. Poster presented at the 2024 Biennial Meeting of the Cognitive Development Society (CDS), Pasadena.
- [17] ⁺Hurtado, A., **Yu, C. L.**, Xu Y., & Kovelman, I. (2024, March). *How children learn with artificial intelligence: A study of dialogic story listening.* Symposium presentation at the 2024 Latinx Research Week at the University of Michigan, Ann Arbor.
- [16] 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.
- [15] ⁺Baybaş, J., **Yu, C. L.**, ⁺Damiani, J., ⁺Gao, R., Kovelman, I., & Brennan, J. R. (2023, September). *Natural language comprehension in the developing brain: A computational neurolinguistic perspective*. Symposium presentation at the 2023 Yale and Wu Tsai fNIRS Workshop, New Haven.
- [14] ⁺Damiani, J., ⁺Gao, R., ⁺Baybaş, J., **Yu, C. L.**, & Kovelman, I. (2023, August). Natural language comprehension in the developing brain: A computational neurolinguistic perspective. Poster presented at the 2023 Michigan Summer Program in Cognition and Early Development (MSPICED) Symposium, Ann Arbor.
- [13] 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.

- [12] 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.
- [11] ⁺Carrera, C., **Yu, C. L.**, & Kovelman, I. (2022, September). Exploring the neural mechanism of theory of mind processing through a naturalistic lens. Poster presented at the 2022 Michigan Summer Program in Cognition and Early Development (MSPICED) Symposium, Ann Arbor.
- [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.

Research Grants

2023	University of Michigan Psychology Dissertation Research Grant Role: PI
	Title: A meta-analysis of progressions in theory-of-mind understandings Amount: \$1,000 USD
2021	Rackham Candidate Graduate Student Research Grant Role: PI
	Title: Social-cultural determinants of early theory-of-mind development Amount: \$3,000 USD
2020	Rackham Precandidate Graduate Student Research Grant Role: PI
	Title: Measuring theory of mind across early and middle childhood Amount: \$1,500 USD
2015	Taiwan Ministry of Science and Technology Research Grant Role: PI Title: Understanding theory of mind: Evidence from preschoolers Amount: \$1,500 USD

Honors and Awards

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2024 - 2025	Harvard Postdoctoral Fellowship in Psychology (Declined due to overlap)
2019 - 2024	Taiwan Government Ph.D. Scholarship for Studying Abroad (\$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	Society for Research in Child Development (SRCD) Graduate Student Travel
	Award (\$300 USD)
2023	Rackham Conference Travel Award (\$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	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 Award(\$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)
Teaching	
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2024	Developmental Cognitive Neuroscience: Social Cognition
	Guest Instructor (Primary instructor: Dr. Ioulia Kovelman)
2022 2022	Undergraduate Lecture University of Michigan
2022 - 2023	Statistics and R Programming
0000	Primary Instructor Undergraduate Lecture University of Michigan
2023	Introduction to Developmental Psychology
	Graduate Student Instructor (Primary instructor: Dr. Ioulia Kovelman)
2022	Undergraduate Lecture University of Michigan
2023	Introduction to Cognitive Neuroscience
	Guest Instructor (Primary Instructor: Dr. Ying Xu) Graduate Seminar University of Michigan
2021 - 2022	Open Science in Psychology
2021 - 2022	Primary Instructor Undergraduate Seminar University of Michigan
2021	Psychometric Theory
2021	Graduate Student Instructor (Primary Instructor: Dr. Matthew Diemer)
	Graduate Lecture University of Michigan
2020	Introduction to Developmental Psychology
2020	Graduate Student Instructor (Primary instructor: Dr. Katie Jodl)
	Undergraduate Lecture University of Michigan
2019	Psychology and Modern Life
	Teaching Assistant (Primary instructor: Dr. Shu-Hui Lee)
	Undergraduate Lecture National Tsing Hua University
2018	Brain and Language
	Teaching Assistant (Primary instructor: Dr. Tai-Li Chou)
	Undergraduate Lecture National Taiwan University
2017	Introduction to Psychology
	Teaching Assistant (Primary instructor: Dr. Tai-Li Chou)
	Undergraduate Lecture National Taiwan University
2016	Cognitive Neuroscience
	Teaching Assistant (Primary instructor: Dr. Shu-Lan Hsieh)
	Undergraduate Lecture National Cheng Kung University
2016	Assessment Practicum Developmental Psychology
	Teaching Assistant (Primary instructor: Dr. Jon-Fan Hu)
	Undergraduate Seminar National Cheng Kung University
2016	Seminar on Emotion and Memory
	Teaching Assistant (Primary instructor: Dr. Der-Yow Chen)
	Undergraduate Lecture National Cheng Kung University

Mentoring

Graduate Students

2023 – Ethan Lee, National Tsing Hua University 2023 – 2024 James Baybaş, University of Michigan

Lab Staff

2023 – Ziqian Shen, University of Michigan

Undergraduate Students

- 2024 Isabella Yoon, University of Michigan 2023 – Astrid Hurtado, University of Michigan (Honors student) | Awards: Tanner
- Memorial Award & Highest Honors Designation
- 2023 Ruimin Gao, University of Michigan 2023 – 2024 Xi Zhang, University of Michigan
- 2023 2024 Jessica Damiani, University of Maryland (Research Program for Underrepresented Students)
- 2021 2024 Kaitlynn Sims, University of Michigan
- 2022 2023 Cristina Carrera, California State University Northridge (Research Program for Underrepresented Students)
- 2021 2022 Olivia Anderson, Kalamazoo College (Research Program for Underrepresented Students)
- 2019 2020 Doris Huang, University of Michigan

Service

Ad-Hoc Journal Reviewer

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

University Service

- 2023 2024 University of Michigan Psychology Departmental Associate
- 2020 2024 Mentor, Michigan Summer Program in Cognition and Early Development (MSPICED)
- 2020 2024 Mentor, University of Michigan Undergraduate Research Opportunities Program (UROP)

2019-2024~ Mentor, University of Michigan Summer Research Opportunities Program (SROP)