

Cheng-Yu Hsieh (謝承佑)

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EDUCATION

Royal Holloway, University of London (RHUL)

Egham, UK

PhD in Psychology (Viva Passed)

Mar. 2022 – Present

- Concentration: **Computational Cognitive Science, Psycholinguistics** Expected: Feb. 2026
- Primary Supervisor: Prof. Kathleen Rastle
- Secondary Supervisor: Prof. Marco Marelli
- Tertiary Supervisor: Prof. Chris Watkin

National Taiwan University (NTU)

Taipei, Taiwan

MSc in Psychology

Sept. 2018 – June 2020

- Concentration: **Cognitive Neuroscience, Developmental Psychology**
- Supervisor: Prof. Tai-Li Chou
- Dissertation Title: Longitudinal Changes in Neural Substrates of Inhibitory Control from Childhood to Adolescence among Youths with and without ADHD: A Counting Stroop Functional MRI Study

BSc in Psychology

Sept. 2014 – June 2018

JOURNAL PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

- Chen, Y. K., Yang, T. R., Chen, L. T., **Hsieh, C. Y.**, Cheng, C., Wu, P. J. & Peng, J. C. Y. (2025). Improving applications of a design-comparable effect size in single-case designs. *Behavior Research Methods*, 5, 279. <https://doi.org/10.3758/s13428-025-02715-1>
- **Hsieh, C. Y.**, Marelli, M., & Rastle, K. (2025). Compositional processing in the recognition of Chinese compounds: Behavioural and computational studies. *Psychonomic Bulletin & Review*, 32, 1878-1889. <https://doi.org/10.3758/s13423-025-02668-8>
- **Hsieh, C. Y.**, Marelli, M., & Rastle, K. (2024). Beyond quantity of experience: Exploring the role of semantic consistency in Chinese character knowledge. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 50(5), 819-832. <https://doi.org/10.1037/xlm0001294>
- Chen, L. T., Chen, Y. K., Yang, T. R., Chiang, Y. S., **Hsieh, C. Y.**, Cheng, C., Ding, C. W., Wu, P. J. & Peng, J. C. Y. (2024). Examining the normality assumption of a design-comparable effect size in single-case designs. *Behavior Research Methods*, 56(1), 379-405.

<https://doi.org/10.3758/s13428-022-02035-8>

- Hwang, T. J., Chan C. T., **Hsieh, C. Y.**, Liu, C. M., Liu, C. C., Chien, Y. L., Hsieh, M. H., Lin, Y. T., Chou, T. L. (2022). Hemispheric lateralization of semantic processing before and after aripiprazole treatment in first-episode psychosis or ultra-high risk state. *Schizophrenia*, 8(1), 1-7.
<https://doi.org/10.1038/s41537-022-00304-1>
- Shang, C. Y., Chou T. L., **Hsieh, C. Y.**, & Gau, S. S. F. (2022). A counting Stroop functional magnetic resonance imaging study on the effects of ORADUR-methylphenidate in drug-naive children with attention-deficit/hyperactivity disorder. *Journal of Child and Adolescent Psychopharmacology*, 32, 467-475. <http://doi.org/10.1089/cap.2022.0024>
- **Hsieh, C. Y.**, Lin, W. C., Li, M. F., & Wu, J. T. (2021). The concept of neighborhood underlying the phonetic consistency effect in Chinese character recognition: A four-decade review and beyond. *Reading and Writing: An Interdisciplinary Journal*, 34, 1225-1246.
<https://doi.org/10.1007/s11145-020-10119-0>
- Chen, L. T., Ding, C. W., **Hsieh, C. Y.**, Chen, Y. K., Chiang, Y. S., Huang, S. C., Yang, T. R., Cheng, C., Liou, P. Y., & Peng, J. C. Y. (2020). Effect size reporting practices in Taiwanese psychology and education journals: Review and beyond. *Chinese Journal of Psychology*, 62(4), 553–592.
<https://psycnet.apa.org/record/2021-07388-006>

ARTICLES UNDER REVIEW / IN PREPARATION

- Taylor, J. S. H., Jowett, A., Auer, T., **Hsieh, C. Y.**, Lingnau, A., Rastle, K. (under revision). The nature of a writing system shapes the cognitive and neural mechanisms for reading acquisition
- Lopukhina, A., Cooper, H., **Hsieh, C. Y.**, Heuven, W. J. B. van (under revision). No evidence that same-language subtitles improve children's reading fluency.
https://osf.io/preprints/psyarxiv/eh4pb_v1
- **Hsieh, C. Y.**, Marelli, M., & Rastle, K. (in prep.). How do Chinese readers interpret ambiguous constituents in novel Chinese compound words?
- **Hsieh, C. Y.**, Gau, S. S. F., & Chou, T.L. (in prep.). Longitudinal Changes in Neural Substrates of Inhibitory Control from Childhood to Adolescence among Youths with and without ADHD: a counting Stroop functional MRI study.
- Liu, M., Li, Y. C., Li, M. F., **Hsieh, C. Y.**, Chang, Y. M., Ma, Y. L. (in prep.) The Neural Mechanism of Orthographic Neighborhood Size Effect in Chinese Word Recognition: A Functional Near-Infrared Spectroscopy Study.
- Lin, W. C., **Hsieh, C. Y.**, Li, M. F., Wu, J. T., & Chou, T. L. (in prep.). A Re-visit of the Phonetic Consistency Effect in Chinese Character Recognition.

OTHER

- **Hsieh, C. Y.** (2025). The relevance of classic language models in the age of AI. *Nature Reviews Psychology*, 4, 759. <https://doi.org/10.1038/s44159-025-00508-z> (Journal Club)

Commentary)

- **Hsieh, C. Y.** (2020). Longitudinal Changes in Neural Substrates of Inhibitory Control from Childhood to Adolescence among Youths with and without ADHD: A Counting Stroop Functional MRI Study. *Master Dissertation*. <https://doi.org/10.6342/NTU202001800>

INVITED TALKS

- *Making sense from the parts: What Chinese compounds tell us about reading* (October, 2025). A talk hosted by Prof Marco Marelli, Department of Psychology, University of Milano Bicocca, Milan, Italy
- *Making sense from the parts: What Chinese compounds tell us about reading* (October, 2025). An online talk hosted by Society of German Word Nerd Network
- *What Chinese lexical processing reveals about language and cognition: Developmental, neurocognitive, computational, and psychometric perspectives* (July, 2025). A talk at Department of Psychology, National Chung-Cheng University, Taiwan
- *Making sense from the parts: What Chinese compounds tell us about reading* (April, 2025). A talk at the Joint Lab Meeting hosted by Prof Kate Nation and Prof Elizabeth Wonnacott, University of Oxford, UK
- *Learning from distributional semantic models (DSMs): Insights into Chinese compound words* (December, 2024). A talk at the Language Neuroscience Lab, hosted by Prof Tai-Li Chou, National Taiwan University, Taiwan
- *Making sense of Chinese compound words* (August, 2024). A talk at the Word Lab, hosted by Prof Jennifer Rodd, University College London, UK
- *The meaningful information in Chinese characters – and how readers tune into it* (October, 2023). A talk at Rank Symposium on the Visual Processing of Faces and Words, Grasmere, UK.

CONFERENCE PRESENTATIONS

ORAL PRESENTATIONS

- **Hsieh, C. Y.**, Marelli, M., & Rastle, K. (September, 2025). *How readers resolve ambiguity in unfamiliar compound words: Computational and behavioural studies in Chinese*. Conference of the European Society for Cognitive Psychology, Sheffield, UK.
- **Hsieh, C. Y.** (September, 2024). *When characters misbehave: Making sense of Chinese compound words*. Departmental meeting, Royal Holloway, University of London, UK.
- **Hsieh, C. Y.** (September, 2024). *When characters misbehave: Making sense of Chinese compound words*. Postgraduate Research Convention, Royal Holloway, University of London, UK.
- **Hsieh, C. Y.**, Marelli, M., & Rastle, K. (July, 2024). *Making sense of Chinese compound words*. Experimental Psychology Society Meeting, York, UK.
- **Hsieh, C. Y.**, Marelli, M., & Rastle, K. (May, 2024). *Stacking Chinese Characters: Insights from Computational Modelling*. Psycholinguistics in Flanders (PiF) conference. Brussels, Belgium.

- **Hsieh, C. Y.** (March, 2024). *The meaningful information in Chinese characters – and how readers tune into it*. Forum for Research in Language and Literacy (FRiLL). London, UK.
- **Hsieh, C. Y.**, Marelli, M., & Rastle, K. (September, 2023). *Beyond quantity of experience: Exploring the role of semantic consistency in Chinese character knowledge*. The Contextual Diversity Workshop. Experimental Psychology Society Meeting, London, UK.
- **Hsieh, C. Y.** (October, 2022). *Learning and generalisation of Chinese character knowledge*. Postgraduate Research Convention, Royal Holloway, University of London, UK.
- **Hsieh, C. Y.**, Gau, S. S. F., & Chou T. L. (2019). *Longitudinal change of inhibitory control from childhood to adolescence in individuals with Attention Deficit/Hyperactivity Disorder (ADHD): A counting Stroop task functional MRI study*. The 21st Taiwan Society of Child and Adolescent Psychiatry (TSCAP) Annual Meeting, Taipei, Taiwan
- **Hsieh, C. Y.**, Li, M. F., Lin, W. C., & Wu, J. T. (2019). *Reflection and beyond in research on phonetic consistency effect in Chinese*. The joint conference of the 2nd Seminar on Indigenous Social Science and the 3rd Seminar on Indigenous Counseling Psychology, Changhua, Taiwan
- Lin, W. C., **Hsieh, C. Y.**, Li, M. F., & Wu, J. T. (2019). *Revisiting consistency effect in character recognition*. The joint conference of the 2nd Seminar on Indigenous Social Science and the 3rd Seminar on Indigenous Counseling Psychology, Changhua, Taiwan
- Wu, J. T., Li, M. F., & **Hsieh, C. Y.** (2019). *Research on the cognitive process of Chinese character recognition: Review and prospect*. The joint conference of the 2nd Seminar on Indigenous Social Science and the 3rd Seminar on Indigenous Counseling Psychology, Changhua, Taiwan
- Gau, S. S. F., **Hsieh, C. Y.**, & Chou T. L. (2019). *The therapeutic effects of the 8-week ORADUR on drug-naïve children with Attention Deficit/Hyperactivity Disorder: A Counting Stroop functional MRI Study*. The Annual Meeting of American College of Neuropsychopharmacology (ANCP), Phoenix, Arizona, USA

POSTER PRESENTATIONS

- **Hsieh, C. Y.** (June, 2025). *Resolving linguistic ambiguity in the Chinese writing system*. The MEDAL Summer School in Computational Modelling, University of Birmingham, Birmingham, UK.
- **Hsieh, C. Y.**, Marelli, M., & Rastle, K. (January, 2023). *Learning and generalisation of Chinese characters*. The Experimental Psychology Society Meeting, London, UK.
- **Hsieh, C. Y.**, Gau, S. S. F., & Chou, T. L. (March, 2020). *Developmental changes in neural substrates of inhibitory control from childhood to adolescence among youths with and without ADHD: A counting Stroop functional MRI study*. The Annual Meeting of Cognitive Neuroscience Society, Boston, Massachusetts, USA (changed to an online conference due to COVID-19).
- **Hsieh, C. Y.**, Wu, J. T., & Chou, T. L. (October, 2018). *Developmental effects on transparency and consistency of semantic processing to Chinese characters in second to fifth graders*. The joint conference of the 17th Conference on the Processing of East Asian Languages and the 9th

Conference on Language, Discourse, and Cognition, Taipei, Taiwan.

RESEARCH EXPERIENCE

Royal Holloway, University of London (RHUL) — Dept. of Psychology Egham, UK

Research Fellow of Language, Learning and Cognition Lab Mar. 2022 – Present

- Conducted an intervention of same-language subtitles on reading fluency

National Taiwan University (NTU) — Dept. of Psychology

Research Assistant, Language Neuroscience Lab Taipei, Taiwan

Supervisor: Tai-Li Chou, PhD Sept 2017 – Jan. 2022

- Undertook functional magnetic resonance imaging (fMRI) studies to investigate semantic organization and processing in typically development children
- Conducted functional near infra-red spectroscopy (fNIRS) to examine the neurocognitive development in Chinese-English bilingual children
- Probed the aberrant semantic processing in patients with schizophrenia

Research Fellow of Chinese Lexical Access, Chinese Cognitive Process Lab

Supervisor: Jei-Tun Wu, PhD Sept 2019 – Jan. 2022

- Reviewed studies on the phonetic consistency effect in Chinese character over 4 decades
- Replicated the phonetic consistency effect in Chinese character

Research Fellow of Effect Size Practice, Effect Size Research Group

Sept 2019 – Present

Supervisor: Chao Ying Joanne Peng, PhD

- Reviewed and codified the effect size (ES) reporting practices in 17 Taiwanese journals
- Examined the psychometric characteristics of ES for single-subject design (i.e. g_{AB}) under different distributions

National Taiwan University Hospital (NTUH) — College of Medicine Sept 2017 – Jan. 2022

Research Fellow of Atypical Cognitive Development, Department of Psychiatry

Supervisor: Susan Shur-Fen Gau, MD, PhD

- Tracked cognitive development of individuals with and without ADHD using fMRI techniques
- Examined therapeutic effects of medications on the inhibitory control of drug-naïve children with ADHD

AWARDS, SCHOLARSHIPS & GRANTS

- Grindley Travel Grant for external conferences, Experimental Psychology Society (£500)
- Grindley Travel Grant for internal conferences, Experimental Psychology Society (£500 * 2)
- Elaine Funnel Prize for research training, Department of Psychology, Royal Holloway, University of London (£750)

- Scholarship for Overseas Study, Ministry of Education, Taiwan (\$208,000)
- Student Travel Grant for International Conferences, Ministry of Science and Technology, Taiwan (\$1,660)
- Research Scholarship for Undergraduates, Ministry of Science and Technology, Taiwan (\$1,600)

TEACHING EXPERIENCE

Royal Holloway, University of London (RHUL) — Dept. of Psychology Egham, UK

Teaching Associate

- Statistics and Research Methods (PS1010, Year 1 undergraduate) Sept. 2022 – Aug. 2025
- Advanced Statistics (PS3193, Year 3 undergraduate) Sept. 2024 – Dec. 2024

Soochow University— Dept. of Psychology Taipei, Taiwan

Visiting Lecturer

- General Psychology: Thinking and Language Dec. 2024

National Taiwan University (NTU) — Dept. of Psychology Taipei, Taiwan

Teaching Associate

- Undergraduate Research Supervision Feb. 2020 – June 2020
- Mind and Brain (undergraduate-level) Feb. 2020 – June. 2020
- Experimental Design (graduate-level) Sept. 2019 – Jan. 2020
- Statistics in Psychology and Education (Year 1 undergraduate) Sept. 2018 – June 2019

ACADEMIC SERVICE

- Manuscript reviewer for leading peer-review journals, including:
 - *Journal of Experimental Psychology: Learning, Memory, and Cognition*
 - *Language, Cognition, and Neuroscience*
 - *Behavior Research Methods*
 - *Psychonomic Bulletin & Review*
 - *Quarterly Journal of Experimental Psychology*
 - *Reading and Writing: An Interdisciplinary Journal*
- Postgraduate activity coordinator at Royal Holloway Psychology, UK (2024/25)
- PhD student representative at Royal Holloway Psychology, UK (2022/23, 2024/2025)
- Chair of Postgraduate Research Convention, Royal Holloway Psychology, UK (2023)

PUBLIC ENGAGEMENT AND IMPACT

- **Research Impact:** Cited by the Department for Education, UK, in a facilitator handbook on Reading Ambition For All Programme: teaching reading skills to children who need the most support (2025, <https://www.laceygreenenglishhub.co.uk/page/reading-ambition-for-all/151967>)
- **Podcast Guest:**

- Featured on “The Other Kind of Doctor” podcast, Episode 13 — The PhD as an international student - with Cheng-Yu Hsieh (2024, in English, [link](#))
- Featured on “nine_o_seven” podcast, Episode 32 — Are psychology majors all familiar with Freud? What’s the difference between clinical psychologists and counselling psychologists? (2021, in Mandarin, [link](#))

SKILLS

Languages: Mandarin Chinese (native), Taiwanese (near native), English (near native, TOEFL 102/120), Japanese (intermediate, N2 passed), German (basic), French (basic)

Computer Software: R/RStudio, Python, PsychoPy, Gorilla, Julia, SAS, SPM12 (Matlab), SPSS, E-PRIME

CERTIFICATION

Higher Education programme in Skills of Teaching to Inspire Learning (inSTIL)

Royal Holloway, University of London

Issued June 2022

PROFESSIONAL MEMBERSHIPS

- European Society for Cognitive Psychology (ESCoP) — Associate Member June 2025 – Present
- Experimental Psychology Society (EPS) — Postgraduate Member Sept. 2022 – Present