


## Cheng-Yu Hsieh (謝承佑)

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### EDUCATION

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#### Royal Holloway, University of London (RHUL)

Egham, UK

*PhD in Psychology (ongoing)*

Mar. 2022 – Present

- Concentration: **Computational Cognitive Science, Psycholinguistics** Expected: Jan. 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 Sept. 2014 – June 2018

*BSc in Psychology*

### JOURNAL PUBLICATIONS

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#### PUBLISHED/ACCEPTED

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

#### UNDER REVIEW/IN PREP

- **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.

#### INVITED TALKS

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- *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

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### 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 2<sup>nd</sup> 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.

### TEACHING EXPERIENCE

<b>Royal Holloway, University of London (RHUL) — Dept. of Psychology</b>		Egham, UK
<i>Teaching Associate</i>		
• Statistics and Research Methods (PS1010, Year 1 undergraduate)	Sept. 2022 – June 2025	
• Advanced Statistics (PS3193, Year 3 undergraduate)	Sept. 2024 – Dec. 2024	
<b>Soochow University— Dept. of Psychology</b>		Taipei, Taiwan
<i>Visiting Lecturer</i>		
• General Psychology: Thinking and Language	Dec. 2024	
<b>National Taiwan University (NTU) — Dept. of Psychology</b>		Taipei, Taiwan
<i>Teaching Associate</i>		

Feb. 2020 – June 2020

Feb. 2020 – June. 2020

Sept. 2019 – Jan. 2020

Sept. 2018 – June 2019

- Undergraduate Research Supervision
- Mind and Brain (undergraduate-level)
- Experimental Design (graduate-level)
- Statistics in Psychology and Education (Year 1 undergraduate)

## RESEARCH EXPERIENCE

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**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** Taipei, Taiwan  
*Research Assistant, Language Neuroscience Lab*  
*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

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- 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)

## ACADEMIC SERVICE

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- 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

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- **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

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*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

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Higher Education programme in Skills of Teaching to Inspire Learning (inSTIL)  
Royal Holloway, University of London  
Issued June 2022

#### PROFESSIONAL MEMBERSHIPS

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