# 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

*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, C.-Y. J. (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, C.-Y. J. (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, C.-Y. J. (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. [recording: https://www.youtube.com/watch?v=v7DHox_6duE]
- *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.** (May, 2025). *Making sense from the parts: What Chinese compound words tell us about reading and learning*. Departmental meeting, Royal Holloway, University of London, UK.
- **Hsieh, C.-Y.** (November, 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.

- Gau, S. S.-F., **Hsieh, C.-Y.**, & Chou T.-L. (December, 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

- **Hsieh, C.-Y.**, Li, M.-F., Lin, W.-C., & Wu, J.-T. (November, 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. (November, 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.** (November, 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

- **Hsieh, C.-Y.**, Gau, S. S.-F., & Chou T.-L. (June, 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

## 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** <span style="float:right">Egham, UK</span>

*Research Fellow of Language, Learning and Cognition Lab* <span style="float:right">Mar. 2022 – Present</span>

- Conducted an intervention study on children's reading fluency using same-language subtitles, with real-time eye-tracking analysis
- Developed an English proficiency test tailored for children in the UK
- Scraped and analysed book ranking data for children and teenagers from websites to explore trends in literacy exposure

**National Taiwan University (NTU) — Dept. of Psychology** <span style="float:right">Taipei, Taiwan</span>

*Research Assistant, Language Neuroscience Lab* <span style="float:right">Sept 2017 – Jan. 2022</span>

*Supervisor: Tai-Li Chou, PhD*

- 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* <span style="float:right">Sept 2019 – Jan. 2022</span>

*Supervisor: Jei-Tun Wu, PhD*

- Reviewed studies on the phonetic consistency effect in Chinese character recognition
- Replicated the phonetic consistency effect in Chinese character recognition

*Research Fellow of Effect Size Practice, Effect Size Research Group* <span style="float:right">Sept 2019 – Present</span>

*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** <span style="float:right">Sept 2017 – Jan. 2022</span>

*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

## TEACHING EXPERIENCE

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Egham, UK

Sept. 2022 – Aug. 2025
Sept. 2024 – Dec. 2024

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

*Teaching Associate*

- Statistics and Research Methods (PS1010, Year 1 undergraduate)
- Advanced Statistics (PS3193, Year 3 undergraduate)

**Soochow University— Dept. of Psychology**

*Visiting Lecturer*

- General Psychology: Thinking and Language

**National Taiwan University (NTU) — Dept. of Psychology**

*Teaching Associate*

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

## 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)

## 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

## CERTICFICATION

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