

Yueyuan (Mercury) ZHENG

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Updated on Nov 08, 2023

EDUCATION

- 2024 (expected) Doctor of Philosophy (Ph.D.) in Cognitive Psychology
University of Hong Kong (HKU), Hong Kong; Supervisor: *Prof. Janet Hsiao*
- 2021 Master of Philosophy (M.Phil.) in Cognitive Psychology
University of Hong Kong, Hong Kong; Supervisor: *Prof. Janet Hsiao*
- 2018 Bachelor of Social Sciences (B.S.S.), major in Psychology
University of Hong Kong, Hong Kong

AWARDS AND HONORS

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| 2023 | Erik Kvan Postgraduate Scholarship | HKU |
| 2022 | Student Award | IEEE TCLT, 22 nd ICALT |
| 2021 | Graduate Research Publication Award, 2 nd Prize | HKU Department of Psychology |
| 2020 | Outstanding Oral Presentation Award | HKU Department of Psychology |
| 2019 | Student Travel Award | Cognitive Science Society |
| 2019-2024 | Research Postgraduate Scholarship, in MPhil & PhD | HKU |
| 2016-2017 | JASSO Scholarship | Japan Student Service Organization |
| 2015 | Summer Enrichment Scholarship | HK Government |

PEER-REVIEWED PUBLICATIONS

(*: corresponding author, #: co-first authorship, -: representative papers)

- Zheng, Y.** & Hsiao, J. H.* (2023). Differential audiovisual information processing in emotion recognition: An Eye Tracking Study. *Emotion*, 23(4), 1028. (IF = 5.564, rank 7/91 in Psychology, Experimental)
- Que, Y., **Zheng, Y.**, Hsiao, J. H., & Hu, X.* (2023). Studying the effect of self-selected background music on reading task with eye movements. *Scientific Reports*, 13(1), 1704. (IF = 4.997, rank 19/74 in Multidisciplinary Sciences)
- Hsiao, J. H.*, An, J., Hui, V. K. S., **Zheng, Y.**, & Chan, A. B. (2022). Understanding the role of eye movement consistency in face recognition and autism through integrating deep neural networks and hidden Markov models. *npj Science of Learning*, 7(1), 1-13. (IF = 5.513, rank 8/91 in Psychology, Experimental; rank 21/270 in Education & Educational Research)
- Zheng, Y.**, Ye, X., & Hsiao, J. H.* (2022). Does adding video and subtitles to an audio lesson facilitate its comprehension?. *Learning and Instruction*, 101542. (IF = 6.636, rank 13/332 in Developmental and Educational Psychology)
- Luo, X., Gu, J., **Zheng, Y.**, & Zhou, X.* (2022) Making a saccade enhances Stroop and Simon conflict control. *Attention, Perception, & Psychophysics*, 84(3), 795-814. (IF = 2.199, rank 57/77 in Psychology)
- Hsiao, J. H.*, Lan, H., **Zheng, Y.**, & Chan, A. B. (2021). Eye Movement analysis with Hidden Markov Models (EMHMM) with co-clustering. *Behavior Research Methods*, 1-14. <https://rdcu.be/cjLZJ> (IF = 6.242, rank 1/13 in Psychology, Mathematical; 5/91 in Psychology, Experimental)
- Hsiao, J. H.*, An, J., **Zheng, Y.**, & Chan, A. B. (2021). Do portrait artists have enhanced face processing abilities? Evidence from hidden Markov modeling of eye movements. *Cognition*, 211, 104616. (IF = 3.650, rank 18/91 in Psychology, Experimental)

8. Turbett, K.*, Jeffery, L., Bell, J., Digges, A., **Zheng, Y.**, Hsiao, J. H., Palermo, R. (2021). Serial Dependence of Facial Identity for Own- and Other-Race Faces. *Quarterly Journal of Experimental Psychology*, 174702182111059430. (IF = 2.143, rank 55/77 in Psychology)

Full-paper Publications in Peer-Reviewed Conference Proceedings

9. **Zheng, Y.**, de la Harpe, S., Yang, A. Y., Hayward, W. G., Palermo, R., Hsiao, J. H. (2023). Cultural Differences in the Effect of Mask Use on Face and Facial Expression Recognition. *Proceedings of the 45th Annual Conference of the Cognitive Science Society*. Cognitive Science Society.
10. Qi, R., **Zheng, Y.**, Yang, Y., Zhang, J., & Hsiao, J. H. (2023). Individual differences in explanation strategies for image classification and implications for explainable AI. *Proceedings of the 45th Annual Conference of the Cognitive Science Society*. Cognitive Science Society.
11. **Zheng, Y.**, Que, Y., Hu, X., Hsiao, J. H. (2022). Predicting Reading Performance based on Eye Movement Analysis with Hidden Markov Models. *Proceedings of the 22nd IEEE International Conference on Advanced Learning Technologies (ICALT)*. **[Student Award] [Best Full Paper Award Nomination]**
12. Yang, Y., **Zheng, Y.**, Deng, D., Zhang, J., Huang, Y., Yang, Y., Hsiao, J. H., & Cao, C.* (2022). HSI: Human Saliency Imitator for Benchmarking Saliency-based Model Explanations. *The Tenth AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*. (accept rate: 29.8%)
13. **Zheng, Y.**, Chen, D., Hu, X., Hsiao, J. H. (2022). The impact of mask use on social categorization. *Proceedings of the 44th Annual Conference of the Cognitive Science Society*, 2024-2630. Cognitive Science Society.
14. Qiu, L., Yang, Y., Cao, C. C., **Zheng, Y.**, Ngai, H. H. T., Hsiao, J. H., & Chen, L. (2022). Generating Perturbation-based Explanations with Robustness to Out-of-Distribution Data. *The ACM Web Conference 2022 (under Web4Good special track)* (accept rate: 24%).
15. **Zheng, Y.**, & Hsiao, J. H. (2020). Audiovisual Information Processing in Emotion Recognition: An Eye Tracking Study. In S. Denison, M. Mack, Y. Xu, & B.C. Armstrong (Eds.), *Proceedings of the 42nd Annual Conference of the Cognitive Science Society*, 2024-2630. Cognitive Science Society.
16. Que, Y., **Zheng, Y.**, Hsiao, J. H., Hu, X. (2020). Exploring the Effect of Personalized Background Music on Reading Comprehension. *Proceedings of the Jointed Conference on Digital Libraries (JCDL) 2020* (pp. 57-66). Association for Computing Machinery, New York, NY, USA. (accept rate: 31.1%)
17. **Zheng, Y.**, Ye, X., & Hsiao, J. H. (2019). Does video content facilitate or impair comprehension of documentaries? The effect of cognitive abilities and eye movement strategy. In A.K. Goel, C.M. Seifert, & C. Freksa (Eds.), *Proceedings of the 41st Annual Conference of the Cognitive Science Society*, 1283-1289. Montreal, QB: Cognitive Science Society. (accept rate: 25.3%) **[Student Travel Award]**

Abstract Publications in Peer-Reviewed Conference Proceedings

- C1. Hsiao, J., Chan, K. W. S., Chan, A., **Zheng, Y.**, Lau, K. M., Tsang, H. L. M. (2021). Eye movement consistency in global-local perceptual processing predicts schizotypy. *Proceedings of the 43rd Annual Conference of the Cognitive Science Society*, 3229. Montreal, QB: Cognitive Science Society.
- C2. Hui, T. K., Sit, H. F., Cheung, T. W., **Zheng, Y.**, Hsiao, J. H., Li, S. X. (2023). Mediating Effect of Pre-Sleep Arousals on the Association between Sleep-related Attentional Bias and Sleep Disturbances – An Eye-tracking Study. *Asian Society of Sleep Medicine (ASSM) 2023*. **[Young Investigator Award]**

Preprints:

- P1. Qiu, L., Yang, Y., Cao, C. C., Liu, J., **Zheng, Y.**, Ngai, H. H. T., Hsiao, J. H., & Chen, L. (2021). Resisting Out-of-Distribution Data Problem in Perturbation of XAI. <https://arxiv.org/abs/2107.14000>.
- P2. Qi, R.#, **Zheng, Y.#**, Yang, Y., Cao, C. C., & Hsiao, J. H. (2023). Explanation Strategies for Image Classification in Humans vs. Current Explainable AI. <https://arxiv.org/abs/2304.04448>.

PRESENTATIONS/ TALKS

Oral Presentations at International Conferences

- Jul. 26th, 2019 *Does video content facilitate or impair comprehension of documentaries?* 41st Annual Conference of the Cognitive Science Society, Montreal, Canada. **[Student Travel Award Winner]**
- July 27th, 2021 *Eye movement consistency in global-local perceptual processing predicts schizotypy.* CogSci2021 Hong Kong Meetup & Symposium.
- July 3rd, 2022 *Predicting Reading Performance based on Eye Movement Analysis with Hidden Markov Models.* 22nd IEEE ICALT. **[Student Award Winner]**
- July 22nd, 2022 *The impact of mask use on social categorization.* CogSci2022 Hong Kong Meetup & Symposium.
- July 29th, 2022 *The impact of mask use on social categorization.* 44th Annual Conference of the Cognitive Science Society

Poster Presentations at Conferences

- Jul. 28th, 2020 *Audiovisual Information Processing in Emotion Recognition: An Eye Tracking Study.* 42nd Annual Conference of the Cognitive Science Society.
- June 29th, 2023 *Cultural Differences in the Effect of Mask Use on Face and Facial Expression Recognition.* Poster presented at the 45th Annual Conference of the Cognitive Science Society.

Other Presentations/ Talks

- May 2nd, 2019 *Does video content facilitate or impair comprehension of documentaries?* Oral presentation at 5th Annual Departmental Research Postgraduate Symposium, Department of Psychology, HKU.
- May 5th, 2020 *Audiovisual Information Processing in Emotion Recognition: An Eye Tracking Study.* Oral presentation at 6th Annual Departmental Research Postgraduate Symposium, Department of Psychology, HKU. **[Outstanding Oral Presentation Award Winner]**
- Mar. 26th, 2021 *Eye movement pattern and consistency predict passage reading performance of English as Second Language (ESL) Learners.* Brown Bag Seminar, Department of Psychology, HKU.
- Aug. 12th, 2023 *Cultural differences in the Effect of Mask Use on Face and Facial Expression Recognition.* CogSci2023 Shanghai Meetup & Symposium.

TEACHING EXPERIENCE

Teaching assistant of the following courses at HKU

2023 Fall	PSYC2102	Foundations of Neuroscience
2022 Spring	PSYC1001	Introduction to Psychology
2020 Spring	PSYC2066	Foundations of Cognitive Science
2019 Fall	PSYC1004	Introduction to Quantitative Methods in Psychology

SERVICES

2022-now	Committee member	Cognitive Science Society, International Committee
2019-2023	Eye-tracking lab manager	Department of Psychology, HKU
2019-2021	Lab manager	Attention, Brain and Cognition Lab
2015-2018	Student mentor & academic advisor	HKU CSSAUD

VISITING EXPERIENCE

2023	University of Western Australia	<i>Visiting Research Student</i>
2016-2017	University of Tokyo	<i>University-Wide Exchange</i>
2016	University of Cambridge	<i>Pembroke-King's Program</i>
2015	University of California, Irvine	<i>Summer Program</i>