Curriculum Vitae

Yen-Ju Chen

PhD

November 22th 2025

Soochow University
School of Science
Department of Psychology
F206, Linxi Rd., Shilin Dist.,
Taipei City, 111002, Taiwan

Phone: +886-930-886-928

E-mail: chen.yen-ju.t05@kyoto-u.jp

RESEARCH INTEREST

Perception psychology, Time perception, Vision science, Spatial-temporal information processing, Perceptual organization, Motion perception, Psychophysics, Mathematical and computational modeling

ACADEMIC RECORD

Assitant Professor	**Department of Psychology** Soochow University, Taipei, Taiwan	02/2026~ current
PhD	**Graduate School of Informatics** Department of Intelligence Science and Technology, Kyoto University, Kyoto, Japan	10/2022~ 09/2025
Master of Science	**Department of Psychology** National Cheng Kung University, Tainan, Taiwan	09/2020 ~ 06/2022
Bachelor of Science	**Department of Psychology** Soochow University, Taipei, Taiwan	09/2016 ~ 06/2020

RESEARCH EXPERIENCE

Visiting Scholar	**School of Psychology** University of Nottingham, Nottingham, UK	08/2024 ~ 09/2024
Part-time Research Assistant	**Graduate School of Informatics** Department of Intelligence Science and Technology, Kyoto University, Kyoto, Japan	10/2022 ~ 09/2025
Part-time Research Assistant	**Department of Psychology** Soochow University, Taipei, Taiwan	09/2017 ~ 09/2018

TEACHING EXPERIENCE

	Department of Psychology	
Teaching Assistant	National Cheng Kung University, Tainan, Taiwan Course: Sensation and Perception	2021/02 ~ 2021/07
	Department of Psychology	
Teaching Assistant	Soochow University, Taipei, Taiwan Course: Statistics for psychology and education	2019/02 ~ 2020/02

PUBLICATION

Journal Article

Chen, Y.J., Sun, Z., & Nishida, S. (2024). Feature-invariant processing of spatial segregation based on temporal asynchrony. *Journal of Vision*, *24*(5), 15. https://doi.org/10.1167/jov.24.5.15. (SCI, IF = 2.0, 2023; Ranking: 39/95=0.4 in Ophthalmology)

Chen, Y.J., Sun, Z., & Nishida, S. (2025). Revealing temporal dynamics of the visuomotor system via continuous tracking of position and attribute. *Journal of Vision, 25*(8), 19. https://doi.org/10.1167/jov.25.8.19 (SCI, IF = 2.0, 2023; Ranking: 39/95 = Top 41% in Ophthalmology)

Chen, Y.J., Sun, Z., & Nishida, S. (in revision). Human visual grouping based on within- and cross-area temporal correlation. *PLOS computational biology.* https://doi.org/10.1101/2025.03.27.645664. (SCI, IF = 3.8, 2023; Ranking: 11/66=0.1 in Mathematical & Computational bilology)

Sun, Z., **Chen, Y.J.**, & Yang, Y.H., Nishida, S. (2025). Machine Learning Modeling for Multi-order Human Visual Motion Processing. *Nat Mach Intell.* https://doi.org/10.1038/s42256-025-01068-w. (SCI, IF = 23.9, 2024; Ranking: 1/170 = Top 0.5% in Computer science, interdisciplinary applications)

Conference Article

Li, Y., Sun, Z., Chen, Y.J., Nishida, S. (2025). [Poster] Building Reasonable Inference for Vision-Language Models in Blind Image Quality Assessment. 32nd International Conference on Neural Information Processing (ICONIP), Okinawa, Japan.

Sun, Z, **Chen, Y.J.**, Yang, Y.H., Nishida, S. (2023) Modeling Human Visual Motion Processing with Trainable Motion Energy Sensing and a Self-attention Network. 2023 Conference on Neural Information Processing Systems, New Orleans, United States. https://doi.org/10.48550/arXiv.2305.09156

Sun, Z, **Chen, Y.J.**, Yang, Y.H., Nishida, S. (2023) Comparative Analysis of Visual Motion Perception: Computer Vision Models versus Human Vision. Conference on Cognitive Computational Neuronscience, Oxford, UK. https://2023.ccneuro.org/view_paper32e1.html?PaperNum=1080

Wang, S. T., **Chen, Y. J**., Xu, Y. D., Ting, T. T., & Chan, T. C. (2019). Application of Weighted Alternating Least Squares on Constructing the Disease Networks in the Heterogeneous Process of Aging. In 2019 20th IEEE International Conference on Mobile Data Management (MDM) pp. 513-520. IEEE. http://doi.org/10.1109/MDM.2019.00112

Conference Abstract

Chen, Y. J., Sun, Z., & Nishida, S. Y. (2025). [Poster] Temporal dynamics of spatial segmentation based on temporal correlation measured by continuous tracking. *Journal of Vision*, 25(9), 1996-1996. https://doi.org/10.1167/jov.25.9.1996

Chen, Y.J., Sun, Z., Nishida, S. Y. (2024). [poster]. Square versus triangular wave modulation in temporal asynchrony segmentation: an insight into underlying computation. Asia Pacific Conference on Vision, Singapore.

Chen, Y.J., Sun, Z., Nishida, S. Y. (2024). [poster]. The Role of Cross-Area and Within-Area Temporal Correlations in Visual Segmentation. European Conference on Visual Perception 2024. Aberdeen, UK.

Chen, Y.J., Sun, Z., Nishida, S. Y. (2024). [poster]. Temporal dynamics gap between position tracking and attribute tracking. *Journal of Vision*, *24*(10), 465-465. https://doi.org/10.1167/jov.24.10.465

Sun, Z., **Chen, Y.J.,** Yang, Y.H., Nishida, S. Y. (2024). [oral]. Acquisition of second-order motion perception by learning to recognize the motion of objects made by non-diffusice materials. *Journal of Vision*, *24*(10), 4894-4894. https://doi.org/10.1167/jov.23.9.4894

Chen, Y. J., & Nishida, S. Y. (2023). [poster]. Temporal limits of visual segmentation based on temporal asynchrony in luminance, color, motion direction, and their mixtures. *Journal of Vision*, *23*(9), 4864-4864. https://doi.org/10.1167/jov.23.9.4864

Sun, Z, **Chen, Y. J.**, Yang, Y. H., & Nishida, S. Y. (2023). [poster]. Modeling of Human Motion Perception Mechanism: A Simulation based on Deep Neural Network and Attention Transformer. *Journal of Vision*, *23*(9), 4894-4894. https://doi.org/10.1167/jov.23.9.4894

Chen, Y. J., & Huang, P. C. (2022). [poster]. Generalized form of common fate: evidence of structure dominance effect. *Journal of Vision*, *22*(14), 3830-3830. https://doi.org/10.1167/jov.22.14.3830

Kao, J. F., **Chen, Y. J.**, Huang, P. C., & Hsieh, S. (2022). [poster]. How age affects the preparation effects under cross-modal switching: Evidence from behavioral and ERP measures. In *PERCEPTION* (Vol. 51, pp. 157-157). 1 OLIVERS YARD, 55 CITY ROAD, LONDON EC1Y 1SP, ENGLAND: SAGE PUBLICATIONS LTD.

Chen, Y. J., & Huang, P. C. (2021). [poster]. Temporal synchrony accompany with structure cue is more effective in the segmentation task. Journal of Vision, 21(9), 2137-2137. https://doi.org/10.1167/jov.21.9.2137

Chen, Y.J., Huang, P.C. (2021). [oral]. Temporal synchrony or structure? A potential computational framework, 2021 Taiwan Psychology Affair, Taipei, Taiwan.

Chen, Y.J., Wang, M.Y. (2019). [poster]. Influence of Arousal to time perception under positive IAPS picture: Controlling confound of approach motivation. 2019 Taiwan Psychology Affair, Kaohsiung, Taiwan.

Thesis

Chen, Y.J. (2025) (Doctor Dissertation). Computing temporal correlation for perceptual organization in vision. Supervisor: Shin'ya Nishida.

Chen, Y.J. (2022) (Master Thesis) Temporal Structure does not trump synchrony in low temporal frequency: Implication and its potential interpretation. Supervisor: Pi-Chun Huang.

GRANTS & AWARDS

Kyoto University DoGS SPRING program

- March 2024 to September 2025
- Constructing a human-like dynamic perceptual organization model: A visual transformer basic approach
- JPMJSP2110, Japan Science and Technology Agency, Japan
- JPY 3,840,000

Kyoto University Science and Technology Innovation Creation Fellowship

- October 2023 to March 2024
- Constructing a human-like dynamic perceptual organization model: A visual transformer basic approach
- JPMJFS2123, Japan Science and Technology Agency, Japan
- JPY 1,050,000

College Student Research Scholarship

- August 2019 to July 2020
- Time flies: the influence of arousal and approach motivation on time perception
- Ministry of Science and Technology, Taiwan
- NTD 48,000

College Student Research Creativity Award

- March 2020
- 108-2813-C-031-010-H, Ministry of Science and Technology, Taiwan
- NTD 20,000

PROFESSIONAL AFFILIATIONS

Member, *Taiwan Psychology Association*, Taipei, Taiwan 2021-2022

Member, *Vision Science Society*, Florida, US 2021-2025