

## Luzi Xu

Postdoc Researcher in The Hong Kong Polytechnic University

[Google Scholar](#) | [ResearchGate](#) | [Utrecht University](#)

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### *Research Interests*

Visual perception, visual memory, decision making

### *Academic Position*

Postdoctoral fellow, The Hong Kong Polytechnic University 2025.04- now

Supervisor: Bolton Chau (Lab: [Decision and Computational Neuroscience Group](#))

### *Education*

Ph.D. Experimental Psychology, Utrecht University, The Netherlands 2021.10- 2025.03

Supervisor: Surya Gayet, Chris Paffen, Stefan van der Stigchel

Lab: [CAP-lab](#) & [Attentionlab](#)

M.S. Psychology, Sun Yat-Sen University, China 2019.09-2021.06

Supervisor: Xiaowei Ding

B.A. Journalism, Sun Yat-Sen University, China 2014.09-2018.06

### *Academic Service*

Journal Reviews (2): Journal of Vision (1), Vision Research (1)

### *Published Articles*

1. **Xu, L.**, Gayet, S., Sahakian, A., Gottlieb, J., Van der Stigchel, S., & Paffen, C. (in press). Trade-offs between visual sampling and memory in stable and changing worlds. *Journal of Experimental Psychology: Human Perception and Performance*. <https://doi.org/10.31234/osf.io/e8wbs>
2. **Xu, L.**, Sahakian, A., Van der Stigchel, S., Paffen, C., & Gayet, S. (in press). Spatial statistical learning of task relevance, rather than stimulus prevalence, improves visual working memory recall. *Psychonomic Bulletin & Review*. <https://doi.org/10.31234/osf.io/4r2fq>
3. **Xu, L.**, Sahakian, A., Gayet, S., Paffen, C. L. E., & Van der Stigchel, S. (2025). Latent memory traces for prospective items in visual working memory. *Journal of Experimental Psychology: Human Perception and Performance*. 51(2), 164-177. <https://doi.org/10.1037/xhp0001257>
4. **Xu, L.**, Paffen, C., Van der Stigchel, S., & Gayet, S. (2024). Statistical learning facilitates access to awareness. *Psychological Science*. 35(9), 1035-1047. <https://doi.org/10.1177/09567976241263344>
- ★ National media coverage in the Netherlands: [NOS Radio 1](#) and [NPO Radio 1](#)
5. **Xu, L.**, Yang, Z., Ji, H., Chen, W., Lin, Z., Huang, Y., & Ding, X. (2023). Direct evidence for proactive suppression of salient-but-irrelevant emotional information inputs.

- Emotion*, 23(7), 2039–2058. <https://doi.org/10.1037/emo0001213>
6. Sun, Y., **Xu, L.**, Luo, X., Ren, Y., & Ding, X. (2022). Unconscious social relation threats: Invisible boss face biases attention. *Attention, Perception, & Psychophysics*, 84(1), 76–88. <https://doi.org/10.3758/s13414-021-02366-2>
  7. Wang, D., Chota, S., **Xu, L.**, Van der Stigchel, S., & Gayet, S. (2025). The priority state of items in visual working memory determines their influence on early visual processing. *Consciousness and Cognition*, 127, 103800. <https://doi.org/10.1016/j.concog.2024.103800>
  8. Ding, X., Gan, J., **Xu, L.**, Zhou, X., Gao, D., & Sun, Y. (2024). Not to follow because of distrust: perceived trust modulates the gaze cueing effect. *Psychological Research*. 1–16. <https://doi.org/10.1007/s00426-024-02000-4>
  9. Ding, X., Ji, H., Yu, W., **Xu, L.**, Lin, Y., & Sun, Y. (2024). Dissociation between temporal attention and Consciousness: Unconscious temporal cue induces temporal expectation effect. *Consciousness and Cognition*, 119, 103670. <https://doi.org/10.1016/j.concog.2024.103670>
  10. Li, S., Wang, S., Ji, H., Tian, N., **Xu, L.**, Chen, W., & Ding, X. (2024). The dual nature of working memory deficits: methamphetamine abusers have more impaired social working memory capacity than canonical working memory capacity. *Psychological Research*, 1–12. <https://doi.org/10.1007/s00426-024-01996-z>

### *Published Abstracts*

1. **Xu, L.**, Sahakian, A., Gayet, S., Paffen, C. L. E., & Van der Stigchel, S. (2024). Latent memory traces for prospective items in visual working memory. *Journal of Vision*. 24(10):246. [VSS 2023 talk]
2. **Xu, L.**, Paffen, C., Van der Stigchel, S., & Gayet, S. (2022). Statistical learning facilitates access to awareness. *Perception*, 51: 177. [ECPV 2022 talk]
3. **Xu, L.**, Liu, Y., Zhang, S., Tu, Y., Chen, W., Ding, X., & Ren, Y. (2021). Semantic contextual cueing effects depend on verbal working memory rather than spatial working memory. *Journal of Vision*, 21(9), 2389. [VSS 2021 poster]
4. Wang, S., **Xu, L.**, Luo X., & Sun, L. (2021). Follow because of trust: Trust modulates the gaze cueing effect. *Journal of Vision*, 21(9), 2366. [VSS 2021 poster]

### *Conference Presentations*

1. Poster at Dutch Society for Brain and Cognition, NL December, 2024
2. **Talk** at Helmholtz Institute 'Perception Day', NL November, 2024
3. **Talk** at Vision Sciences Society, Florida, US May, 2024
4. **Talk** at Dutch Society for Brain and Cognition, NL December, 2023
5. Poster at Max Planck institute, Tübingen, DE August, 2023
6. Poster at Vision Sciences Society, Florida, US May, 2023
7. Poster at Helmholtz Institute 'Perception Day', NL March, 2023
8. **Talk** at European Conference on Visual Perception, NL August, 2022
9. Poster at the Association for the Scientific Study of Consciousness, NL ★ **Best Poster Award** July, 2022
10. Poster at Dutch Society for Brain and Cognition, NL May, 2022

11. Poster at Vision Sciences Society, online

May, 2021

### ***Summer School***

The Systems Vision Science Summer School & Symposium, Germany

Aug, 2023

### ***Grants & Awards***

2021: The National Scholarship offered by the China Scholarship Council

2020: The Second Prize scholarship for outstanding students

2017: The First Prize scholarship for outstanding students

National Encouragement scholarship

2016: The First Prize scholarship for outstanding students

National Encouragement scholarship

### ***Skills and Methods***

Methods: Psychophysics, eye-tracking, EEG

Programming: Matlab, JavaScript

Languages: Hokkien (native), Mandarin (native), English (excellent), Cantonese (passive)

### ***References***

Dr. Surya Gayet

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Dr. Chris Paffen

c.l.e.paffen@uu.nl

Prof. Stefan Van der Stigchel

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