

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. [ECVP 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

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|---|----------------|
| 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 s.gayet@uu.nl

Dr. Chris Paffen c.l.e.paffen@uu.nl

Prof. Stefan Van der Stigchel s.vanderstigchel@uu.nl