

## Huichao Ji

### Curriculum Vitae

03/2022

### Contact Information

Department of Psychology

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Sun Yat-sen University

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### Education

08. 2019 – 06. 2022 Degree expected: M.S., Psychology, Sun Yat-sen University

Advisor: *Xiaowei Ding*

08. 2015 - 06. 2019 B.S., Psychology, Sun Yat-sen University

### Research Experience

02.2021 – 09.2021 Research intern, Cognition lab, University of Zurich

Supervised by *Ven Popov* and *Klaus Oberauer*

04.2019 – Present Postgraduate research, Sun Yat-sen University

PI: *Xiaowei Ding*

03.2018 – 04.2019 Undergraduate research, Sun Yat-sen University

PI: *Jing Samantha Pan*

### Publications (#: co-first author; \*: corresponding author)

Sun, Y., Wang, X., Huang, Y., **Ji, H.**, & Ding, X.\* (2021). Biological motion gains preferential access to awareness during continuous flash suppression: Local biological motion matters.

*Journal of Experimental Psychology: General*. Advance online publication.

<https://doi.org/10.1037/xge0001078>

**Ji, H.**<sup>#</sup>, Yin, J.<sup>#</sup>, Huang, Y.<sup>\*</sup>, & Ding, X.<sup>\*</sup> (2020). Selective attention operates on the group level for interactive biological motion. *Journal of Experimental Psychology: Human*

*Perception and Performance*, 46(12), 1434–1442. <https://doi.org/10.1037/xhp0000866>

- Huang, Y., Liu, Z., **Ji, H.**, Duan, Z., Ling, H., Chen, J. \*, & Ding, X. \* (2020). Attentional bias in methamphetamine users: a visual search task study. *Addiction Research & Theory*, 28(6), 517-525. <https://doi.org/10.1080/16066359.2019.1708905>
- Shao, M., Yin, J. \*, **Ji, H.**, Yang, Y., & Song, F. (2020). Distance perception warped by social relations: Social interaction information compresses distance. *Acta Psychologica*, 202, 102948. <https://doi.org/10.1016/j.actpsy.2019.102948>
- Ji, H.**, & Pan, J. S. \* (2019). Can I choose a throwable object for you? Perceiving affordances for other individuals. *Frontiers in Psychology*, 10, 2205. <https://doi.org/10.3389/fpsyg.2019.02205>

### **Manuscripts** (\*: corresponding author)

- Ding, X., Xu, L., **Ji, H.**, & Sun, Y. \* (submitted). Dissociation between temporal attention and consciousness: Invisible human faces induce temporal expectation effect
- Li, S., Tian, N., Xu, L., **Ji, H.**, Ding, X. \* (submitted). Greater damage to the social brain: Methamphetamine abusers had more impaired social working memory capacity than canonical working memory capacity.
- Ji, H.**, Wang, K., Kong, G., Zhang, X., He, W., Mao, H., & Ding, X. \* (in preparation). How does working memory work? The manipulation unit of working memory.
- Ji, H.**, Zhang, Y. \*, & Ding, X. \* (in preparation). Size-based warping in visual working memory.
- He, W., **Ji, H.** #, & Ding, X. \* (in preparation). Time compression when observing intuitive physics .
- Su, Z., Xie, J., Zhao, Y., Zhou, C., **Ji, H.** \*, & Ding, X. \* (in preparation). Physiological mechanisms of episodic memory retrieval: New findings from intracranial sharp-wave ripples. (in Chinese)
- Li, Y., Su, Z., Qian, J., Xiao, J., **Ji, H.** \*, & Ding, X. \* (in preparation). Serial dependence in biological motion perception.
- Xu, L., Yang, Z., **Ji, H.**, Huang, Y. \*, & Ding, X. \* (in preparation). Active Suppression of Fearful faces.
- Ding, X., Li, H., **Ji, H.**, Dai, H., Shen, M. \*, & Gao, Z. \* (manuscript drafted). Memory superiority

for interactive biological motion in working memory.

He, W., **Ji, H.**, & Ding, X. \* (in preparation). The fate of surface features in moving object when crossing a tunnel.

### Conference Presentations

Popov, V., **Ji, H.**, & Oberauer, K. (2021). Uncertainty Ratings Can Improve the Estimation of Memory Precision by Several Orders of Magnitude. Talk given at the Psychonomic Society's 62nd Annual Meeting, 11/6/21, online.

**Ji, H.**, Wang, K., Kong, G., Mao, H., Zhang, X., & Ding, X. (2021). How does Working Memory Work? Objects but not Boolean Maps as the Manipulation Unit of Working Memory. Poster presented at the annual meeting of the Vision Sciences Society, 5/25/21, online.

Yang, Z., **Ji, H.**, Chen, W., Ren, Y. (2021). Category Learning of Medical Images: How does Comparison Help? Poster presented at the annual meeting of the Vision Sciences Society, 5/25/21, online.

Li, W., **Ji, H.**, Gao, Z., Ding, X. (2021). Memory Superiority for Interactive Biological Motion in Working Memory. Poster presented at the annual meeting of the Vision Sciences Society, 5/25/21, online.

He, W., **Ji, H.**, Gao, Z., Ding, X. (2021). The Fate of Surface Features in Moving Object When Crossing a Tunnel. Poster presented at the annual meeting of the Vision Sciences Society, 5/25/21, online.

Li, Y., Ding, X., Qian, J., Su, Z., **Ji, H.** (2021). Serial Dependence in Biological Motion Perception. Poster presented at the annual meeting of the Vision Sciences Society, 5/24/21, online.

**Ji, H.**, Yin, J., Huang, Y., & Ding, X. (2020). Event-based Attention: Selective Attention can Operate Interactive Biological Motion as a Unit. Poster presented at the annual meeting of the Vision Sciences Society, 6/12/20, online. <https://doi.org/10.1167/jov.20.11.203>

**Ji, H.**, Wang, K., Mao, H., Zhang, X., & Ding, X. (2020). How does Working Memory Work? The Manipulation Unit of Visual Working Memory. Talk given at the Virtual Working Memory Symposium, 6/3/20, online.

**Ji, H.**, & Pan, J. S. (2019). Can I Choose a Throwable Object for You? Perceiving Affordances for Other Individuals. Poster presented at the 4th China Vision Science, 7/7/19, Chengdu, Sichuan, China.

## Grants

06.2018–03.2019 Laboratory Open Fund of Sun Yat-sen University, CNY10,000.

*“Exploring the relationship between sensory perception and motor control: Take throwing as an example.”*

### **Principal investigator**

Contributions: Conceived and designed the experiments with Dr. Jing Samantha Pan. Wrote the application for the project. Performed the experiments and analyzed the data. Wrote the manuscript for publication (Ji & Pan, 2019).

01.2021-12.2023 Natural Science Foundation of Guangdong Province, CNY 100,000

*“Representational structure and neural basis of dynamic processing in visual working memory.”*

### **First project member** (PI: Dr. Xiaowei Ding)

Contributions: Conceived and designed the experiments with Dr. Xiaowei Ding. Wrote the application for the project. Performed the experiments under the supervision of Dr. Ding.

01.2019-12.2020 Young Teacher training program of Sun Yat-sen University, CNY 200,000

*“Working memory processing of interactional gaze cues.”*

### **Third project member** (PI: Dr. Xiaowei Ding)

Contributions: Designed the experiments and wrote the application for the project with other members. Performed the experiments under the supervision of Dr. Ding.

01.2019-12.2020 Young Teacher training program of Sun Yat-sen University, CNY 75,000.

*“Attentional bias in methamphetamine addicts.”*

### **Third project member** (PI: Dr. Yushang Huang)

Contributions: Wrote the application for the project with other members.

Performed the experiments under the supervision of Dr. Huang.

## Honors

2021	<i>Oral Presentation Award (2<sup>nd</sup> place)</i> Greater Bay Area Young Scholars Forum on Psychological Science
2021	<i>Second Prize Scholarship of Outstanding Students</i> Sun Yat-sen University
2020	<i>National Scholarship for Graduate Student</i> The Ministry of Education of the People's Republic of China
2020	<i>First Prize Scholarship of Outstanding Students</i> Sun Yat-sen University
2019	<i>Second Prize Scholarship of Outstanding Students</i> Sun Yat-sen University
2018	<i>Third Prize Scholarship of Outstanding Students</i> Sun Yat-sen University
2017	<i>Academic Progress Award</i> Sun Yat-sen University

## Invited Talks

2022.3	Perception & Mind Lab Johns Hopkins University
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## Ad Hoc Reviewer

Assistant of Dr. Xiaowei Ding:

*Applied Cognitive Psychology* (1), *Attention, Perception, & Psychophysics* (1), *Plos ONE* (1),

Master's dissertation (3)

## Teaching Experience

Sun Yat-sen University

2020 Teaching Assistant, Special Topics on Attention Research (Xiaowei Ding)

## Students Supervised

2020-21 Yichen Yu, Sun Yat-sen University'21 (now Master student at UCL)

2020-21 Innovation training program for college students, "*A new framework for social working memory: A series of studies based on virtual reality*", Xinlin Yang, Lechen Hu, Xinyue Liang, Sihan Wei, Sun Yat-sen University'23

2020-21 Innovation training program for college students, "*Serial dependence in biological motion perception*", Yongqi Li, Zhou Su, Jiayu Qian, Jizhen Xiao, Sun Yat-sen University'22

## Academic Skills

*Data collection:* Psychophysics (MATLAB psychtoolbox), eye-tracking (Eyelink 1000Plus), EEG, fMRI

*Data analysis:* MATLAB, R, JASP, SPSS

*Graphics:* MATLAB, Adobe Illustrator, Photoshop, R

*Language:* Chinese (native), English (proficient, TOFEL 107)

## References

Xiaowei Ding	Associate professor	Sun Yat-sen University	<a href="mailto:dingxw3@mail.sysu.edu.cn">dingxw3@mail.sysu.edu.cn</a>
Klaus Oberauer	Professor	University of Zurich	<a href="mailto:k.oberauer@psychologie.uzh.ch">k.oberauer@psychologie.uzh.ch</a>
Ven Popov	Postdoc	University of Zurich	<a href="mailto:vencislav.popov@gmail.com">vencislav.popov@gmail.com</a>
Jing Samantha Pan	Professor	Sun Yat-sen University	<a href="mailto:panj27@mail.sysu.edu.cn">panj27@mail.sysu.edu.cn</a>