Chengli Xiao

Contact Information

Department of Psychology
School of Social and Behavioral Sciences
Nanjing University, 163 Xianlin Road
Nanjing 210023, P. R. China
Tel: +86-25-89680958-419
Fax: +86-25-89680950
Email: xiaocl@nju.edu.cn

Research Interest

- ✓ The social interactions between human and artificial intelligence.
- ✓ Spatial cognition and spatial thinking, spatial communication and perspective-taking in human-human and human-robot interactions; spatial construal of abstract concepts (e.g., time, number).

Education

Ph.D.	Psychology, Chinese Academy of Sciences	2003-2008
BA	Psychology, East China Normal University	1999-2003

University Experience

Professor, Department of Psychology, School of Social and Behavioral Sciences, Nanjing University, January 2022 – present

Associate Dean, School of Social and Behavioral Sciences, Nanjing University, February 2024 - present

Associate Professor, Department of Psychology, School of Social and Behavioral Sciences, Nanjing University, January 2012 – December 2021

Vice-Chair, Department of Psychology, School of Social and Behavioral Sciences, Nanjing University, July 2010 – August 2013; September 2015 - January 2024

Visiting Scholar, Department of Psychological & Brain Sciences, University of California, Santa Barbara, September 2013 – August 2014

Assistant Professor, Department of Psychology, School of Social and Behavioral Sciences, Nanjing University, July 2008 – December 2011

Director Assistant, Department of Psychology, School of Social and Behavioral
   Sciences, Nanjing University, February 2009 –June 2010

Teaching Experience

Cognitive Psychology, Nanjing University
Introduction to Cognitive Sciences, Nanjing University
Spatial Cognition and Spatial Thinking, Nanjing University
Theoretical and Applied Cognitive Sciences, Nanjing University
Advanced Experimental Technologies, Nanjing University
A History of Psychology, Nanjing University

Grants

*The Study of Social Acceptance and Social Impact of Anthropomorphic Artificial
   Intelligence*
   the National Social Science Fund of China (21BSH045), 1/1/2022-12/31/2024
Human-Robot Spatial Language Interaction in Chinese Language and Culture
   the Major Projects of Philosophy and Social Science Research in Jiangsu
   Universities (2018SJZDA020), 1/1/2019-12/31/2021
Mandarin Speakers' Time Cognition and Behaviors
   Liberal Arts Innovation Team Project of Nanjing University (010914370105) ,
   1/1/2018-12/31/2019
Robots' Spatial Cognition and Optimization of Human-Robot Interaction Strategies
   Original and Cross-Research Cultivation Fund Project of Nanjing University
   (011814380035), 1/1/2018-12/31/2019
Spatial Representation in Real and Imagined Movement
   National Natural Science Foundation of China (31000457), 1/1/2011-12/31/2013

Professional Activities

✓ Member of the Engineering Psychology Committee of the Chinese Psychological
   Society
✓ Council member of the Jiangsu Psychological Society
✓ Member of the Psychonomic Society
✓ Member of the spatial network of the Spatial Intelligence and Learning Center

Ad hoc reviewer:
Journal of Field Robotics

Journal of Environmental Psychology

Cognitive Science

Food Quality & Preference

International Journal of Social Robotics

Spatial Cognition and Computation: An Interdisciplinary Journal

International Journal of Contemporary Hospitality Management

Computer Speech & Language

Cognitive Development

American Journal of Psychology

Frontiers in Psychology

Clinical Linguistics & Phonetics

Acta Psychologica Sinica (in Chinese)

Advances in Psychological Science (in Chinese)

Progress in Biochemistry and Biophysics (in Chinese)

Studies of Psychology and Behavior (in Chinese)

Chinese Journal of Applied Psychology (in Chinese)

Publications

(* denotes corresponding author; # denotes student co-author)

1. Zhao, Y. #, & **Xiao, C.*** (2024). Overcome medical algorithm aversion: Conditional joint effect of direct and indirect information. International Journal of Human-Computer Interaction, online. https://doi.org/10.1080/10447318.2024.2344146

2. Hua, S.# , & **Xiao, C.*** (2023). What shapes a parasocial relationship in RVGs? The effects of avatar images, avatar identification, and romantic jealousy among potential, casual, and core players. *Computers in Human Behavior, 139*, 107504. https://doi.org/10.1016/j.chb.2022.107504

3. **Xiao, C.***, Wu, W.#, Zhang, J.#, & Xu, L.# (2023). Treat robots as humans? Perspective choice in human-human and human-robot spatial language interaction. *Spatial Cognition and Computation: An Interdisciplinary Journal*, 23, 309-329. https://doi.org/10.1080/13875868.2023.2227995

4. **Xiao, C.***, & Zhao, L. # (2022). Robotic chef versus human chef: The effects of anthropomorphism, novel cues, and cooking difficulty level on food quality prediction. *International Journal of Social Robotics, 14*, 1697-1710. https://doi.org/10.1007/s12369-022-00896-9

5. Liu, M. #, **Xiao, C.**, & Chen, C.* (2022). Perspective-corrected spatial referring expression generation for human-robot interaction. *IEEE Transactions on*

Systems Man Cybernetics-Systems, *52*, 7654-7666.
https://doi.org/10.1109/TSMC.2022.3161588

6. **Xiao, C.***, Fan, Y. #, Zhang, J. #, & Zhou, R. (2022). People do not automatically take the level-1 visual perspective of humanoid robot avatars. *International Journal of Social Robotics, 14*, 165–176.
    https://doi.org/10.1007/s12369-021-00773-x

7. **Xiao, C.***, Xu, L. #, Sui, Y. #, & Zhou, R. (2021). Do people regard robots as human-like social partners? Evidence from perspective-taking in spatial descriptions. *Frontiers in Psychology, 11*, 578244.
    https://doi.org/10.3389/fpsyg.2020.578244

8. **Xiao, C.***, Sui, Y. #, Xiao, S. #, & Zhou, R. (2021). A new perspective on spatial interaction research: The effects of multiple social factors. *Advances in Psychological Science*, 29, 796–805. （in Chinese）

9. Sui, Y. #, Wu, Y. #, **Xiao, C.***, & Zhou, R. (2021). Study on spatial language interaction in simulated human-robot cooperative exploration task. *Manned Spaceflight*, 27, 549-558. （in Chinese）

10. Fan, Y. #, **Xiao, C.***, & Zhou, R. (2021). Regulating role of attention in spontaneous visual perspective-taking. *Space Medicine & Medical Engineering*, 34, 31-38. （in Chinese）

11. **Xiao, C.***, Fan, Y. #, Xu, L. #, & Zhou, R.* (2019). Human-centered human-robot natural spatial language interaction. *Chinese Journal of Applied Psychology, 25,* 319-331. (in Chinese)

12. Fan, Y. #, & **Xiao, C.*** (2019). The challenges and optimizations of psychological environment of underground space. *Chinese Journal of Underground Space and Engineering, 15*, 499-507. (in Chinese)

13. Zhao, M. #, & **Xiao, C.*** (2019). Gender differences in multiple spatial tasks in large scale real environments: Taking shopping mall and office building for example. *Psychological Research, 12,* 262-271. (in Chinese)

14. **Xiao, C.***, Zhao, M. #, & Chen, L. # (2018). Both earlier times and the future are "front": The distinction between Time- and Ego-reference-points in Mandarin speakers' temporal representation. *Cognitive Science, 42*, 1026-1040. doi: 10.1111/cogs.12552

15. Liu, C. #, & **Xiao, C.*** (2018). Dual systems for spatial updating in immediate and retrieved environments: Evidence from bias analysis. *Frontiers in Psychology, 9*, 85. doi: 10.3389/fpsyg.2018.00085

16. **Xiao, C.***, Lian, Y. #, & Hegarty, M. (2015). Spatial updating of map-acquired representation. *Memory & Cognition, 43, 1032-1042*. doi: 10.3758/s13421-015-0520-8

17. **Xiao, C.***, & Liu, C. # (2014). Spatial updating of imagined environment. *Acta*

Psychologica Sinica, 46, 1289-1300. doi: 10.3724/SP.J.1041.2014.01289 (in Chinese)

18. **<u>Xiao, C.*</u>** (2013). Stable egocentric representation acquired from sequential proprioceptive learning. *Acta Psychologica Sinica*. 45, 752-761. doi: 10.3724/SP.J.1041.2013.00752 (in Chinese)

19. <u>**Xiao, C.***</u>, & Zhang, L. # (2013). Egocentric representation acquired from offline map learning. *PLoS ONE*, 8, e60194. doi: 10.1371/journal.pone.0060194

20. **<u>Xiao, C.*</u>**, McNamara, T. P., Qin, S., & Mou, W. (2010). Neural mechanisms of recognizing scene configurations from multiple viewpoints. *Brain Research, 1363*, 107-116. doi: 10.1016/j.brainres.2010.09.068

21. <u>**Xiao, C.**</u>, Mou, W.*, & McNamara, T. P. (2009). Use of self-to-object and object-to-object spatial relations in locomotion. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 35*, 1137-1147. doi: 10.1037/a0016273

22. Mou, W.*, <u>**Xiao, C.**</u>, & McNamara, T. P. (2008). Reference directions and reference objects in spatial memory of a briefly viewed layout. *Cognition, 108*, 136-154. doi: 10.1016/j.cognition.2008.02.004

23. Mou, W.*, McNamara, T. P., Rump, B., & <u>**Xiao, C.**</u> (2006). Roles of egocentric and allocentric spatial representations in locomotion and reorientation. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 32*, 1274-1290. doi: 10.1037/0278-7393.32.6.1274