

# Xin Ye

School of Information  
University of Michigan  
4455 Leinweber Building  
2200 Hayward Street  
Ann Arbor, MI 48109

<http://xinyepsy.com>  
1 (616) 274-8594  
xinye@umich.edu  
(updated May 2026)

## Research Interests

Human-Robot Interaction (HRI); Human Factors; Human-Computer Interaction (HCI); Artificial Intelligence; Human Behavior Modeling; Computational HRI; AI Ethics; User Experience Design; Security Robots; Autonomous Vehicles; Trust

## Education

- 09/2023 – *present* **University of Michigan**  
*Ann Arbor, MI* PhD in Information  
GPA: 4.0 Advisor: Lionel P. Robert Jr.
- 09/2021 – 04/2023 **University of Michigan**  
*Ann Arbor, MI* MS in Information Science (Data Science and Big Data Analysis)  
GPA: 4.0 Dissertation Committee: Lionel P. Robert Jr., Gabriela Marcu, Connor Esterwood
- 09/2017 – 06/2021 **Zhejiang University**  
*Hangzhou, China* BS in Psychology, Minor in Finance  
GPA: 3.8 Advisor: Zaifeng Gao

## Professional Experience

- 08/2023 – *present* **School of Information, University of Michigan**  
*Ann Arbor, MI* Graduate Student Researcher
- 01/2022 – 01/2023 **University of Michigan Transportation Research Institute**  
*Ann Arbor, MI* Part-time Data Analyst  
Mentor: Prof. Kathleen D. Klinich
- 03/2021 – 06/2021 **NetEase Games**  
*Hangzhou, China* User Experience Research Intern  
Mentor: Dehang Meng
- 07/2020 – 09/2020 **North Carolina State University**  
*Raleigh, NC* Summer Research Assistant  
Applied Cognitive Psychology (ACP) Lab — PI: Prof. Jing Feng

09/2019 – 08/2021 Department of Psychology, Zhejiang University  
Hangzhou, China Research Assistant  
Cognitive Psychology and Engineering Psychology Lab — PI: Prof. Zaifeng Gao

## Selected Honors and Awards

- 03/2025 Best Late Breaking Report Award, Honorable Mention, ACM/IEEE International Conference on Human-Robot Interaction
- 08/2024 Top 25% Paper, Winner, Americas Conference on Information Systems
- 08/2024 Best Paper Award, Nominated, Americas Conference on Information Systems
- 06/2024 Ph.D. Pre-candidacy Paper Passed with Distinction, University of Michigan
- 2023, 2024, 2025 School of Information Travel Grant \$1500
- 2023, 2024, 2025 Rackham Conference Travel Grant \$900, \$1100
- 02/2024 Rackham Pre-candidate Research Grant \$1500, University of Michigan
- 09/2022 School of Information Master Student Research Grant \$1500
- 06/2021 Graduate with Honors, Zhejiang University
- 10/2020 Zhejiang Province Student Innovation Research Grant, ¥ 3000
- 10/2020 3rd Prize in the Mathematics Competition of Chinese College Students

## Publications

### Approximate Acceptance Rates:

HRI: 23%, RO-MAN: 46%

### Heavily-reviewed Journal Articles (J)

---

- J.02 Esterwood, C., Ye, X., Guan, R., and Robert, L. P. (2026). *Embodied or Virtually Represented: Navigating the Embodiment Debate in Human-Robot Interaction*, *Science Robotics*, Accepted.
- J.01 Ye, X. and Robert, L. P. (2024). *A Human–Security Robot Interaction Literature Review*, (PDF) *ACM Transactions on Human-Robot Interaction*, 14(2), Article 21, 1-36.

## Heavily-reviewed Conference Papers (C)

---

- C.08 **Ye, X.** and Robert, L. P. (2025). The Roles of Fairness and Effectiveness in Promoting Legitimacy and Cooperation with Security Robotic Authority. *Proceedings of the 20th ACM/IEEE International Conference on Human-Robot Interaction (HRI 2026)*, (Acceptance rate: 23%), March 16-19, 2025, Edinburgh, Scotland, UK, pp. 295–305. (PDF)
- C.07 **Ye, X.** and Robert, L. P. (2025). Rewarding Trust: How Reward Power Shapes Security Robot Acceptance, *Proceedings of the 69th Human Factors and Ergonomics Society Annual Meeting (HFES 2025)*, October 13-17, 2025, Chicago, Illinois. (PDF)
- C.06 **Ye, X.** and Robert, L. P. (2025). Can Robots Take Over Security? A Brief Review and Critique of Security Robot vs. Human Security Agent, *Proceedings of the 34th IEEE International Conference on Robot and Human Interactive Communication (RO-MAN 2025)*, Aug 25 - Aug 29, 2025, Eindhoven, Netherlands. (PDF)
- C.05 **Ye, X.** and Robert, L. P. (2025). Security Robot Power and Acceptance: Exploring French and Raven’s Five Forms of Power. *Proceedings of the 20th ACM/IEEE International Conference on Human-Robot Interaction (HRI 2025)*, March 4–6, 2025, Melbourne, Australia, pp. 1731–1736. (🏆 Best Late Breaking Report Award Honorable Mention) (PDF)
- C.04 Esterwood, C., Guan, R., **Ye, X.** and Robert, L. P. (2025). *Virtually the Same or Realistically Different?: A Meta-analysis of Real vs. ‘Not So Real’ Robots*, *Proceedings of the 20th ACM/IEEE International Conference on Human-Robot Interaction (HRI 2025)*, March 4-6, 2025, Melbourne, Australia, pp. 559–568. (PDF)
- C.03 **Ye, X.**, Bhatti, S., Robert, L. P. (2024). Gender and Security Robot Interactions: A Brief Review and Critique. *Proceedings of the 30th Americas Conference on Information Systems (AMCIS 2024)*, Aug 15-17, 2024, Salt Lake City, UT. (🏆 Best Paper Award Nominee) (PDF)
- C.02 **Ye, X.**, Jo, W., Ali, A., Bhatti, S., Esterwood, C., Kassie, H., Robert, L. P. (2024). Autonomy Acceptance Model (AAM): The Role of Autonomy and Risk in Security Robot Acceptance. *Proceedings of the 2024 Annual ACM/IEEE International Conference on Human-Robot Interaction (HRI 2024)*, Boulder, Colorado, USA, March 11–14, pp. 840–849. (PDF)
- C.01 **Ye, X.**, Robert, L. (2023). Human Security Robot Interaction and Anthropomorphism: An Examination of Pepper, RAMSEE, and Knightscope Robots. *Proceedings of the 32nd IEEE International Conference on Robot and Human Interactive Communication (RO-MAN 2023)*, Busan, Korea, Republic of, August 28–31, pp. 982-987. (PDF)

## Short Papers, Late-Breaking Reports and/or Companion Proceedings (SP)

---

- SP.01 Masterson, A., **Ye, X.**, Li, Y., and Robert, L. P. (2026). The Imitation of Intimacy: Comparing Satisfaction in Intimate Human and AI Companion Relationships. *Companion Proceedings of the 21st ACM/IEEE International Conference on Human-Robot Interaction (HRI Companion’26)*, March 16-19, 2025, Edinburgh, Scotland, UK, 849–854. (PDF)

## Workshop Papers (W)

---

W.02 Masterson, A., Ye, X., Robert, L. P. (2025, October 18). Exploring digital intimacy: How intimacy differs in long-distance, in-person, and chatbot relationships. The 28th ACM SIGCHI Conference on Computer-Supported Cooperative Work Social Computing (CSCW) [Co-Constructing the Future of Digital Intimacy workshop], Bergen, Norway.

W.01 Dong, J., Esterwood, C., Ye, X., Mitchell, J. J., Jo, W., Robert, L. P., Park, C. H., Jeon, M. (2024, March). Taking a Closer Look: Refining Trust and its Impact in HRI. In *Companion of the 2024 ACM/IEEE International Conference on Human-Robot Interaction*, pp. 1317-1319.

#### Theses (T)

---

T.01 Ye, X. (2023). Human Security Robot Interaction and Anthropomorphism. *Master's Thesis*, School of Information, University of Michigan.

#### Chapters (C)

---

C.01 Ye, X., Zhu, A., Liu, T., Wu, J., He, Y., Zhou, M., Pan, H., Gao, Z. (2020). "Common human factors methods in infectious disease prevention and control". In: *Psychological Response to Public Health Emergencies: A Handbook of Self-Care and Psychological Growth*. Ed. by Zhejiang University Department of Psychology and Behavioral Sciences. 2020, pp. 251-263. (in Chinese).

## Invited Presentations

3/2026 **University of Michigan, MiSL Mind in Society Lab**  
Ann Arbor, MI The Roles of Fairness and Effectiveness in Promoting Legitimacy and Cooperation with Security Robotic Authority

6/2025 **2025 Midwest Robotics Workshop (MWRW)**  
Chicago, IL Power in Security Robots: Exploring the Role of Social Power in Robot Acceptance and Trust

## Service

### Journal Reviewer

---

2026 IEEE Access

2025, 2026 ACM Transactions on Human-Robot Interaction

2025 Humanities and Social Sciences Communications - Nature

2025 Collective Intelligence

2024, 2025, 2026 AIS Transactions on Human-Computer Interaction (AIS-THCI)

2024, 2025 International Journal of Industrial Ergonomics

2024 Intelligent Service Robotics (JIST)

2024 IEEE Robotics and Automation Letters (IEEE RA-L)

#### Conference Reviewer

---

2026 Human Factors and Ergonomics Society International Annual Meeting (HFES)

2025, 2026 ACM/IEEE International Conference on Human-Robot Interaction (HRI)

2024 Hawaii International Conference on System Sciences (HICSS)

2024 International ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI)

2023, 2025 IEEE International Conference on Robot and Human Interactive Communication (RO-MAN)

#### Organizing Committee for International Conferences

---

2025 IEEE International Conference on Robot and Human Interactive Communication (RO-MAN), Session Co-Chair

2024 ACM/IEEE International Conference on Human-Robot Interaction (HRI), Workshop Organizer

#### Univeristy Services

---

2023 UMSI PhD Application Feedback Program

## Teaching

#### University of Michigan

---

Fall 2025, Graduate Student Instructor - SI 347 Human-Computer Interaction  
Winter 2026

Winter 2023 Graduate Student Instructor - SI 618 Data Manipulation & Analysis (Machine Learning, Natural language processing [nltk, spaCy, gensim], Big Data [Dask + Spark])

Fall 2022 Graduate Student Instructor - SI 370 Data Exploration

## Mentoring

01/2026 – present **Jean Yu**  
University of Michigan Undergraduate Student, School of Information

01/2026 – present **Carol Gong**  
University of Michigan Master Student, School of Information

09/2023 – 12/2023 **Yuqiao Xu**  
University of Michigan Master Student, School of Information

09/2023 – 12/2023 **Manvitha Madem**  
University of Michigan Master Student, School of Information

## Research Projects

01/2022 – 10/2023 **Review and Critique of Morphological Induced Anthropomorphism to Promote Affectivity**  
Research Assistant  
University of Michigan Conducted a literature review exploring how robots' morphological attributes affect anthropomorphism and social and affective responses of humans. Coded 41 papers and explored a generalized structure of anthropomorphism.

01/2022 – 3/2023 **Data Elements from Video using Impartial Algorithm Tools for Extraction**  
Data Analyst  
University of Michigan Explored ML algorithms to predict passengers' motion sickness based on video; compared human labeling performance; applied cognition principles to algorithm development; coded MATLAB for Fleiss Kappa Analysis.

01/2021 – 10/2022 **The Effect of Emotion on Visual Working Memory**  
Research Assistant  
Zhejiang University

- Designed lab experiments and programmed MATLAB experiment code to examine the effect of emotion valence and arousal on visual working memory quality and capacity; Collected behavioral data(response time) in the lab.
- Modeling the data by maximum likelihood estimates and MCMC methods, programmed MARLAB and R code to analyze results in three working memory models.
- First explored and contributed to the 0-180 degree data analysis for memory objects in R, wrote a handbook for future users.

06/2019 – 09/2021 **Auditory Messages for Intersection Movement Assist (IMA) Systems: Effects of Self-prioritization**  
Research Assistant  
Zhejiang University

- Designed experiments and programmed driving simulator using UNITY to examine the effect of auditory warning messages on driving behavior in automated vehicles.
- Developed surveys and collected driving behavioral (e.g., driving speed and eye-tracking) and subjective data (e.g., utility, preference). Analyze the data using SPSS software. Completed and Presented the poster.

06/2019 – 09/2021 **System Security and Intelligent Protection of Human-Machine Integration; Correction and Prevention in High-risk Traffic Behavior: Warnings**  
Research Assistant  
Zhejiang University Systematically screened papers on multi-modal and different warning messages in correcting high-risk traffic behaviors; Assisted in writing two white papers for the formation of Chinese Automobile Interaction Standards;

06/2020 – 08/2020 **Pedestrian-Vehicle Communication Displays in the Context of Autonomous Driving: A Scoping Review**  
Research Assistant  
NC State University **The Manipulation of Pedestrian-Automated Vehicle Interaction: A Scoping Review of Experimental Methods**  
Screened literature on pedestrian-vehicle interaction; Poster and video presented at the NC State GEARS Summer Research Presentation.

09/2018 – 06/2019 **Active Suppression Mechanism of Attention Information based on Dual Task**  
*Research Assistant* **Paradigm**  
*Zhejiang University* Designed lab experiments and programmed MATLAB code to discover the destruction of the inhibition mechanism based on dual-task paradigm, first explored the cognition mechanism behind the active suppression phenomenon.