

Jiannan LI

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Current position

Assistant Professor, School of Computing and Information Systems, Singapore Management University

Research Interest

Human-Computer Interaction, Human-Robot Interaction

Education

- | | |
|-----------|---|
| 2016-2023 | PhD in Computer Science, University of Toronto
<i>Advisors:</i> Ravin Balakrishnan & Tovi Grossman |
| 2012-15 | MSc in Computer Science, University of Calgary
<i>Advisors:</i> Ehud Sharlin & Saul Greenberg |
| 2008-12 | BENG in Automation and Control, Southeast University, China |

Publications

PEER-REVIEWED CONFERENCE AND JOURNAL ARTICLES

- | | |
|---------------------------|---|
| UIST ₂₄ [C.14] | Ludwig Sidenmark, Tianyu Zhang, Leen Al Labadidi, Jiannan Li, Tovi Grossman. Desk2Desk: Optimization-based Mixed Reality Workspace Integration for Remote Side-by-side Collaboration . In <i>Proceedings of the 2024 Annual ACM Symposium on User Interface Software and Technology (UIST '24)</i> . Acceptance rate 24%. |
| DIS ₂₄ [C.13] | Setareh Aghel Manesh, Tianyi Zhang, Yuki Onishi, Kotaro Hara, Scott Bateman, Jiannan Li, and Anthony Tang. How People Prompt to Create Interactive VR Scenes . In <i>Proceedings of the 2024 ACM Conference on Designing Interactive Systems (DIS '24)</i> . Acceptance rate 27.4%. |
| CHI ₂₃ [C.12] | Jiannan Li, Maurício Sousa, Karthik Mahadevan, Bryan Wang, Paula Akemi Aoyaui, Nicole Yu, Angela Yang, Ravin Balakrishnan, Anthony Tang, and Tovi Grossman. Stargazer: An Interactive Camera Robot for Capturing How-To Videos Based on Subtle Instructor Cues . In <i>Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)</i> . Acceptance rate 28.4%. |
| VR ₂₃ [C.11] | Sixuan Wu, Jiannan Li, Mauricio Sousa, and Tovi Grossman. Investigating Guardian Awareness Techniques to Promote Safety in Virtual Reality . In <i>Proceedings of the 30th IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR '23)</i> . |

- CSCW22[J.2] Kartikaeya Kumar, Lev Poretski, Jiannan Li, and Anthony Tang. 2022. **Tourgether360: Collaborative Exploration of 360° Videos Using Pseudo-Spatial Navigation**. In *Proceedings of the ACM on Human Computer Interaction (CSCW '22)*.
- CHI22[C.10] Kevin Huang, Jiannan Li, Maurício Sousa, and Tovi Grossman. 2022. **immersivePOV: Filming How-To Videos with a Head-Mounted 360° Action Camera**. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22)*. 🏆 Honorable Mention Award (top 5%).
- CHI22[C.9] Jiannan Li, Maurício Sousa, Chu Li, Jessie Liu, Yan Chen, Ravin Balakrishnan, and Tovi Grossman. 2022. **ASTERIODS: Exploring Swarms of Mini-Telepresence Robots for Physical Skill Demonstration**. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI '22)* Accepted with minor revision, acceptance rate 12.5%.
- UIST21[C.8] Jiannan Li, Jiahe Lyu, Maurício Sousa, Ravin Balakrishnan, Anthony Tang, and Tovi Grossman. 2021. **Route Tapestries: Route Tapestries: Navigating 360 Virtual Tour Videos Using Slit-Scan Visualizations**. In *Proceedings of the 34th Annual ACM Symposium on User Interface Software and Technology (UIST '21)*. Acceptance rate 25.9%.
- UIST21[C.7] Jiangtao Gong, Teng Han, Siling Guo, Jiannan Li, Siyu Zha. 2021. **HoloBoard: an Immersive Teaching Board for Lecture-based Classes**. In *Proceedings of the 34th Annual ACM Symposium on User Interface Software and Technology (UIST '21)*. Acceptance rate 25.9%.
- CHI21[C.6] Zhicong Lu, Chenxinran Shen, Jiannan Li, Hong Shen, and Daniel Wigdor. 2021. **More Kawaii than a Real-Person Live Streamer: Understanding How the Otaku Community Engages with and Perceives Virtual YouTubers**. In *Proceedings of 2021 SIGCHI Conference on Human Factors in Computing Systems (CHI '21)*. Acceptance rate 26.3%.
- GI20[C.5] Jiannan Li, Ravin Balakrishnan, and Tovi Grossman. 2020. **StarHopper: A Touch Interface for Remote Object-Centric Drone Navigation**. In *Proceedings of the 2020 Graphical Interface Conference (GI '20)*.
- CHI19[C.4] Teng Han, Jie Liu, Khalad Hasan, Mingming Fan, Junhyeok Kim, Jiannan Li, Xiangmin Fan, Feng Tian, Edward Lank, and Pourang Irani. 2019. **PinchList: Leveraging Pinch Gestures for Hierarchical List Navigation on Smartphones**. In *Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (CHI '19)*. Acceptance rate 23.8%.
- CHI18[C.3] Teng Han, Jiannan Li, Khalad Hasan, Keisuke Nakamura, Randy Gomez, Ravin Balakrishnan, and Pourang Irani. 2018. **PageFlip: Leveraging Page-Flipping Gestures for Efficient Command and Value Selection on Smartwatches**. In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (CHI '18)*. Acceptance rate 25.7%.
- IJHCS[J.1] Jiannan Li, Saul Greenberg, Ehud Sharlin. 2017. **A Two-Sided Collaborative Transparent Display Supporting Workspace Awareness**. In *International Journal of Human Computer Studies (Int J HCS)*, 101:23-44.
- DIS14[C.2] Jiannan Li, Saul Greenberg, Ehud Sharlin, and Joaquim Jorge. 2014. **Interactive two-sided transparent displays: designing for collaboration**. In *Proceedings of the 2014 conference on Designing interactive systems (DIS '14)*. Acceptance rate 27%.
- ICCSNT11[C.1] Jiannan Li, Pengbo Li, Hongyi Liu, Dong Li, and Jian Tang. 2011. **A Contactless Battery Charging and Monitoring System for Wireless Sensor Network Nodes**. In *Proceedings of 2011 International Conference on Computer Science and Network Technology (ICCSNT '11)*.

PRE-PRINTS

- arXiv21 Rahul Arora, Jiannan Li, Gongyi Shi, and Karan Singh. 2021. **Thinking Outside the Lab: VR Size & Depth Perception in the Wild**. arXiv:2105.00584.

POSTERS & WORKSHOPS

- CHILBW₂₄ Nikhita Joshi, Richard Li, Jiannan Li, Leonardo Pavanatto, Michel Pahud, Jatin Sharma, Bongshin Lee, Hugo Romat, William A.S. Buxton, Nicolai Marquardt, Ken Hinckley, Nathalie Riche. **Opportunistic Nudges for Task Migration Between Personal Devices.** In *CHI '24 Extended Abstracts on Human Factors in Computing Systems*
- AIVR₂₁ Zhuoyue Lyu, Jiannan Li, Bryan Wang. 2021. **Alive: Interactive Visualization and Sonification of Neural Networks in Virtual Reality.** In *2021 IEEE International Conference on Artificial Intelligence and Virtual Reality (AIVR).*
- HAI₂₁ Jiannan Li, Maurício Sousa, Ravin Balakrishnan, and Tovi Grossman. 2021. **Constellation: a Multi-User Interface for Remote Drone Tours.** In *Proceedings of the 9th International Conference on Human-Agent Interaction (HAI '21).*
- CHIEA₁₃ Jiannan Li, Ehud Sharlin, Saul Greenberg, and Michael Rounding. 2013. **Designing the car iWindow: exploring interaction through vehicle side windows.** In *CHI '13 Extended Abstracts on Human Factors in Computing Systems.*

Research Internships

- 2022 Microsoft Research, Redmond, US
With Ken Hinckley and Nathalie Henry Riche in the EPIC reserach group.
- 2018 Université Paris-Saclay & INRIA, Orsay, France
With Cédric Fleury and Michel Beaudouin-Lafon, on sense-making on wall-sized displays.
- 2014 Lenovo Research, Beijing, China
With Xiang Cao, on novel interaction on mobile phone edges.

Industry Employment

- 2015-16 Software engineer at Nureva Inc., Calgary, Canada

Awards

- 2022 Snap Creative Challenge Award
- 2021 Wolfond Scholarship in Wireless Information Technology (5,000 CAD)
- 2016-20 Ontario Trillium Scholarship (40,000 CAD per year)
- 2016-18 Wolfond Scholarship in Wireless Information Technology (20,000 CAD)
- 2013,14 University of Calgary Computer Science Graduate Research Award (2,000 CAD)

Services

COMMITTEE MEMBER

- 2024,25 Technical Program Committee member, ACM CHI
- 2022-24 Technical Program Committee member, ACM ICMI

2021 Web Chair, IEEE VR

REVIEWER

2017,20-24 ACM CHI, special recognition for outstanding reviews for CHI '22
2023 ACM Transactions on Computer-Human Interaction
2020,22-24 ACM UIST, special recognition for outstanding reviews for UIST '22 (2)
2020,22-24 ACM CSCW, special recognition for outstanding reviews for CSCW '23 and '24
2023,24 ACM IMWUT
2021,22,24 IEEE VR
2024 IEEE ISMAR
2023,24 ACM DIS
2024 ACM CHI PLAY
2022 ACM VRST
2021 IEEE Transactions on Human-Machine Systems
2020 International Journal on Human-Computer Studies
2014,15,22 ACM TEI
2016,17 IEEE RO-MAN

Supervision & Mentoring

PHD STUDENT

2023- Tianyi Zhang (SMU, co-advised with Tony Tang)
2024- Yueyue Hou (SMU)
2024- Manusha Karunathilaka (SMU, co-advised with Wang Yong)
2024- Shaolun Ruan (SMU, co-advised with Wang Yong)

MASTER STUDENT

2023 Setareh Aghel Manesh (SMU, visiting student from UCalgary), [C.13]
2022 Paula Akemi Aoyagui (UToronto), [C.12]
2022 Nicole Sin Ting Yu (UToronto), [C.12]
2021 Chu Li (UToronto), [C.9]

RESEARCH ENGINEER

2024- Emran Poh (SMU)

UNDERGRADUATE STUDENT

2022 Angela Yang (UToronto), [C.12]
2021,22 Sixuan Wu (UToronto), [C.11]
2021,22 Yuchen Fan (UToronto)
2021 Kartikaeya Kumar (IIT Guwahati), [J.2]

2021 Kevin Huang (UToronto), [C.10]
2020,21 Jiahe Lyu (UToronto), [C.8]

Teaching

2024 IS133 (Web Application Development)

References

Available upon request.