

Jiannan Li

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Research Interest

Human-Computer Interaction, Human-Robot Interaction

Education

- 2016-2023 PHD in Computer Science, University of Toronto
Advisors: Ravin Balakrishnan & Tovi Grossman
- 2012-14 MSc in Computer Science, University of Calgary
Advisors: Ehud Sharlin & Saul Greenberg
- 2008-12 BENG in Automation and Control, Southeast University, China

Publications

PEER-REVIEWED CONFERENCE AND JOURNAL ARTICLES

- CHI23[C.12] Jiannan Li, Maurício Sousa, Karthik Mahadevan, Bryan Wang, Paula Akemi Aoyoui, 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 *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*. Acceptance rate 28.4%.
- VR23[C.11] Sixuan Wu, Jiannan Li, Maurício Sousa, and Tovi Grossman. **Investigating Guardian Awareness Techniques to Promote Safety in Virtual Reality.** In *Proceedings of the 30th IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR '23)*.
- CSCW22[J.2] Kartikaeya Kumar, Lev Poretzki, 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. **ASTEROIDS: 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 JHCS)*, 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

- 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 (CHI EA '13)*.

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

- 2022,23 Program Committee member, ACM ICMI
- 2021 Web Chair, IEEE VR

REVIEWER

- 2015,20-22 ACM CHI, special recognition for outstanding reviews for CHI '22
- 2021,22 IEEE VR
- 2023 ACM DIS
- 2022 ACM VRST
- 2021 IEEE Transactions on Human-Machine Systems
- 2020,22,23 ACM UIST, special recognition for outstanding reviews for UIST '22 (2)
- 2020,22,23 ACM CSCW, special recognition for outstanding reviews for CSCW '23
- 2020 International Journal on Human-Computer Studies
- 2014,15,22 ACM TEI

Mentoring

UNDERGRADUATE STUDENT

- 2022 Angela Yang (University of Toronto), [C.12]
- 2021,22 Sixuan Wu (University of Toronto), [C.11]
- 2021,22 Yuchen Fan (University of Toronto)
- 2021 Kartikaeya Kumar (IIT Guwahati), [J.2]
- 2021 Kevin Huang (University of Toronto), [C.10]
- 2020,21 Jiahe Lyu (University of Toronto), [C.8]

GRADUATE STUDENT

- 2022 Paula Akemi Aoyagui (University of Toronto), [C.12]
- 2022 Nicole Sin Ting Yu (University of Toronto), [C.12]
- 2021 Chu Li (University of Toronto), [C.9]

Teaching

TEACHING ASSISTANT

- 2022,20,19 University of Toronto
INF1344 (Introduction to Statistics for Data Science)
- 2020 University of Toronto
INF2310 (Mixed Reality)
- 2017 University of Toronto
CSC309 (Web Programming)
- 2017 University of Toronto
INF2170 (Information Architecture)
- 2014 University of Calgary
CPSC319 (Data Structures and Algorithms)

References

Available upon request.