

# LIJIE YAO

Dr. M.Sc. Ing. B.Eng.

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## ABOUT ME

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I am an **Assistant Professor** at **Xi'an Jiaotong-Liverpool University**. I obtained my Ph.D. degree from **Université Paris-Saclay**, supervised by Dr. Petra Isenberg and Prof. Anastasia Bezerianos. My dissertation on *Situated Visualization in Motion* received the **Ph.D. Thesis Prize** from AFIHM (annual recipient: 2). Previously, I was a postdoctoral and doctoral researcher at **INRIA**, AVIZ team, and a visiting researcher at **University of Calgary** hosted by Dr. Wesley Willett. My research interests include **visual analytics and visualization**, focusing on **visualization in motion**. I always explore the impact of motion characteristics and spatial factors on the perception, design, and user experience of visual representations.

## WORK EXPERIENCE

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<b>Assistant Professor</b> Suzhou, Jiangsu, China	Xi'an Jiaotong-Liverpool University	July 2024 – Present
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- Xi'an Jiaotong-Liverpool University is a Chinese private university founded in 2006 as a joint venture between the University of Liverpool and Xi'an Jiaotong University.
- My duties include teaching (about 40%), research (about 40%), and some services (about 20%).

<b>Postdoctoral Researcher</b> Gif-Sur-Yvette, Île-de-France, France	Inria	Jan. 2024 – March 2024
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- Inria is a French national institution for research in digital science and technology. It is ranked 18th in the global research institution and 7th in computer science.
- My duties included reviewing literature, conducting experiments, and writing papers.

<b>Visiting Researcher</b> Calgary, Alberta, Canada	University of Calgary	July 2023 – Oct. 2023
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- The University of Calgary is a Canadian public research university founded in 1908, prior to being instituted into a separate, autonomous university in 1966.
- My duties included reviewing literature and conducting experiments.

<b>Teaching Assistant</b> Gif-Sur-Yvette, Île-de-France, France	Université Paris-Saclay	Sept. 2021 – Aug. 2023
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- The Université Paris-Saclay is a french combined technological research institute and public research university. It is ranked 12th in the ARWU 2024 and 73rd in QS 2025.
- My duties included reviewing literature and conducting experiments.

<b>Doctoral Researcher</b> Gif-Sur-Yvette, Île-de-France, France	Inria	Sept. 2020 – Dec. 2023
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- Inria is a French national institution for research in digital science and technology. It is ranked 18th in the global research institution and 7th in computer science.
- My duties included reviewing literature, conducting experiments, writing papers, monitoring students, and presenting at conferences.

## EDUCATION

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<b>Université Paris-Saclay</b> Ph.D. – Computer Science	Gif-sur-Yvette, France	Sept. 2020 – Dec. 2023
<ul style="list-style-type: none"><li>• Supervisors: Petra Isenberg &amp; Anastasia Bezerianos</li><li>• Thesis Topic: Situated Visualization in Motion</li><li>• Research Focus: Visualization in motion, perception, visual design</li></ul>		
<b>Université Paris-Saclay</b> Master of Science – Computer Science	Gif-sur-Yvette, France	Sept. 2019 – Aug. 2020
<ul style="list-style-type: none"><li>• Supervisors: Petra Isenberg</li><li>• Thesis Topic: Situated Visualization in Motion</li><li>• Research Focus: Visualization in motion, perception, visual design</li></ul>		
<b>Polytech Lille</b> Diplôme d'ingénieur (= Master) – Electrical Engineering and Automation	Lille, France	Sept. 2017 – Aug. 2019
<ul style="list-style-type: none"><li>• Supervisors: Komi Midzodzi Pekpe</li><li>• Thesis Topic: Position Control of A Drone</li><li>• Research Focus: Embedded systems, automatic control</li></ul>		
<b>XIDIAN University</b> Bachelor of Engineering – Electronic Information Engineering	Xi'an, China	Aug. 2014 – June 2017
<ul style="list-style-type: none"><li>• Supervisors: Xavier Redon &amp; Alexandre Boé</li><li>• Thesis Topic: Electronic Necklace for Health Monitoring</li><li>• Research Focus: Embedded systems, microelectronics</li></ul>		

## AWARDS AND GROUP MEMBERSHIPS

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### Awards

• AFIHM Ph.D. Thesis Prize	France	March 2024
• Mitacs Globalink Research Award	Canada	May 2023

### Group Memberships

• IEEE Professional Membership	U.S.A.	Aug. 2024 – Present
• ACM Professional Membership	U.S.A.	Sept. 2024 – Present

## SUPERVISION

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### Postgraduate Level

- Haonan Yao, Xi'an Jiaotong-Liverpool University, co-supervised with Dr. Lingyun Yu, 08/2024 – present.

### Graduate Level

- Federica Bucchieri, *Situated Visualization in Motion for Video Games*, University Paris-Saclay, co-supervised with Dr. Petra Isenberg, 03/2022 – 09/2022.

### Undergraduate Level

- Jiachen Jiang, *Visualization in Motion in Metaverse*, XJTLU, 09/2024 – present.
- Xing Wei, *Physicalization in Practice: The Embodiment of Emotions*, XJTLU, 09/2024 – present.
- Yuming Zhang, *Physicalization in Practice: Record the Highlights of My Life*, XJTLU, 09/2024 – present.
- Yongxuan Teng, *Visualization in Motion: A Systematic Review*, XJTLU, 09/2024 – present.

- Yingkai Xu, *Ubiquitous Visualization*, XJTLU, 09/2024 – present.
- Dingkang Yang, *Physicalization in Practice: My Carbon Emissions*, XJTLU, 09/2024 – present.

## RESEARCH ACTIVITIES

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### Organization

- 2024: First-Person Visualizations for Outdoor Physical Activities workshop held as a part of IEEE VIS

### Review

- 2025: CHI, HRI
- 2024: CHI, VIS, EuroVis, TVCG, ETRA, alt.chi, IMX, HRI, TSMCS, SAIS, ISS, MobileHCI, ETVIS
- 2023: CHI, VIS, EuroVis
- 2022: VIS, SIGGRAPH Asia

## TEACHING

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### Xi'an Jiaotong-Liverpool University

Suzhou, China

Sept. 2024 – Present

- Undergraduate level: SAT006 - Foundations of Computer Science and Engineering (around 720 students)
- Undergraduate level: CPT210 - Microprocessor (around 420 students)

### Université Paris-Saclay

Gif-sur-Yvette, France

Sept. 2021 – Aug. 2023

- Graduate level: Interactive Information Visualization (around 50 students)

## PUBLICATIONS

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1. **Lijie Yao\***. Situated Visualization in Motion. *IEEE Transactions on Visualization and Computer Graphics*. In press. DOI: 10.1109/MCG.2024.3462129.
2. **Lijie Yao\***, Federica Bucchieri, Victoria McArthur, Anastasia Bezerianos, Petra Isenberg. User Experience of Visualizations in Motion: A Case Study and Design Considerations. *IEEE Transactions on Visualization and Computer Graphics*. In press. DOI:1109/TVCG.2024.3456319.
3. **Lijie Yao\***, Romain Vuillemot, Anastasia Bezerianos, Petra Isenberg. Designing for Visualization in Motion: Embedding Visualizations in Swimming Videos. *IEEE Transactions on Visualization and Computer Graphics*, 2024, 30 (3), pp.1821-1836. DOI:10.1109/TVCG.2023.3341990.
4. **Lijie Yao\***, Anastasia Bezerianos, Romain Vuillemot, Petra Isenberg. Visualization in Motion: A Research Agenda and Two Evaluations. *IEEE Transactions on Visualization and Computer Graphics*, 2022, 28(10), pp.3546-3562, DOI: 10.1109/TVCG.2022.3184993.
5. Fairouz Grioui\*, Tanja Blascheck, **Lijie Yao**, Petra Isenberg. Micro Visualizations on a Smartwatch: Assessing Reading Performance While Walking. *Short papers of the IEEE Conference on Visualization*, Oct. 2024, Florida, United States. To appear.
6. Ahmed Elshabasi\*, **Lijie Yao**, Petra Isenberg, Charles Perin, Wesley Willett. Collecting Information Needs for Egocentric Visualizations while Running. *In Proceeding of the First-Person Visualizations for Outdoor Physical Activities workshop at IEEE VIS*, Oct. 2024, Florida, United States. To appear.
7. Yvonne Jansen, Federica Bucchieri, Pierre Dragicevic, Martin Hachet, Morgane Koval, Léana Petiot, Arnaud Prouzeau, Dieter Schmalstieg, **Lijie Yao**, Petra Isenberg\*. Envisioning Situated Visualizations of Environmental Footprints in an Urban Environment. *In Proceedings of the Visualization for Social Good workshop at IEEE VIS*, Oct. 2022, Oklahoma City, United States. DOI: 10.5281/zenodo.7053934.
8. Alaul Islam, **Lijie Yao\***, Anastasia Bezerianos, Tanja Blascheck, Tingying He, et al.. Reflections on Visualization in Motion for Fitness Trackers. *In proceeding of the New Trends in HCI and Sports workshop at MobileHCI*, Sep. 2022, Vancouver, Canada.

9. **Lijie Yao\***, Anastasia Bezerianos, Romain Vuillemot, Petra Isenberg. Situated Visualization in Motion for Swimming. *Journée Visu 2022*, Jun 2022, Bordeaux, France.
10. Federica Bucchieri\*, **Lijie Yao**, Petra Isenberg. Visualization in Motion in Video Games for Different Types of Data. *JournéeVisu 2022*, Jun 2022, Bordeaux, France.
11. Federica Bucchieri\*, **Lijie Yao**, Petra Isenberg. Situated Visualization in Motion for Video Games. *Posters of the EuroVis*, Jun 2022, Rome, Italy. DOI: 10.2312/evp.20221119.
12. **Lijie Yao\***, Anastasia Bezerianos, Petra Isenberg. Situated Visualization in Motion. *Posters of the IEEE VIS*, Oct 2020, Salt Lake City, United States. 2020.

## LANGUAGES

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- Chinese (Mandarin): Native Fluency
- English: Advanced Proficiency
- French: Advanced Proficiency