

Lijie Yao 姚李捷

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

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ABOUT ME

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

Assistant Professor 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 academic/administrative services (about 20%).

Postdoctoral Researcher 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.

Visiting Researcher 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.

Teaching Assistant 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.

- 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, advising students, and presenting at conferences.

EDUCATION

Université Paris-Saclay

Gif-sur-Yvette, France

Sept. 2020 – Dec. 2023

Ph.D. – Computer Science

- Supervisors: Petra Isenberg & Anastasia Bezerianos
- Thesis Topic: Situated Visualization in Motion
- Research Focus: Visualization in motion, perception, visual design

Université Paris-Saclay

Gif-sur-Yvette, France

Sept. 2019 – Aug. 2020

Master of Science – Computer Science

- Supervisors: Petra Isenberg
- Thesis Topic: Situated Visualization in Motion
- Research Focus: Visualization in motion, perception, visual design

Polytech Lille

Lille, France

Sept. 2017 – Aug. 2019

Diplôme d'ingénieur (= Master) – Electrical Engineering and Automation

- Supervisors: Komi Midzodzi Pekpe
- Thesis Topic: Position Control of A Drone
- Research Focus: Embedded systems, automatic control

XIDIAN University | 西安电子科技大学

Xi'an, China

Aug. 2014 – June 2017

Bachelor of Engineering – Electronic Information Engineering

- Supervisors: Xavier Redon & Alexandre Boé
- Thesis Topic: Electronic Necklace for Health Monitoring
- Research Focus: Embedded systems, microelectronics

GRANTS, AWARDS, AND GROUP MEMBERSHIPS

Grants

- XJTLU RDF

Jan. 2025 - Dec. 2027
- Mitacs Globalink Research Award

May. 2023 - Oct. 2023

Awards

- AFIHM Ph.D. Thesis Prize

March 2024

Group Memberships

- IEEE Professional Membership

Aug. 2024 – Present

SUPERVISION

Graduate Level

- AY2024/26, University of Liverpool:
Yuzhu Chen (F).
- AY2021/22, Université Paris-Saclay:
Federica Bucchieri, *Situated Visualization in Motion for Video Games*, co-supervised with Dr. Petra Isenberg.

Undergraduate Level

- AY2024/25, Xi'an Jiaotong-Liverpool University & University of Liverpool:
Jiachen Jiang, Xing Wei, Yuming Zhang, Yongxuan Teng, Yingkai Xu, Ding kang Yang.

RESEARCH ACTIVITIES

Organization

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

Review

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

TEACHING

Xi'an Jiaotong-Liverpool University	Suzhou, China	Sept. 2024 – Present
<ul style="list-style-type: none"> • Undergraduate level: SAT006 - Foundations of Computer Science and Engineering (around 710 students) • Undergraduate level: CPT210 - Microprocessor (around 540 students) 		
Université Paris-Saclay	Gif-sur-Yvette, France	Sept. 2021 – Aug. 2023
<ul style="list-style-type: none"> • Graduate level: Interactive Information Visualization (around 50 students) 		

PEER-REVIEWED PUBLICATIONS

* Corresponding author; † These authors contribute equally.

Journals (reverse chronology)

1. **Lijie Yao***. Situated Visualization in Motion. *IEEE Computer Graphics and Applications*. In press. DOI: 10.1109/MCG.2024.3462129. **CG&A: JCR Q3**
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*, 2025, 31 (1), pp.174-184. DOI: 1109/TVCG.2024.3456319. **TVCG: JCR Q1**
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. **TVCG: JCR Q1**

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. **TVCG: JCR Q1**

Conferences (reverse chronology)

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. DOI: 10.1109/VIS55277.2024.00017. **IEEE VIS: CCF A**
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. DOI: 10.48550/arXiv.2409.06426. **IEEE VIS: CCF A**
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. **IEEE VIS: CCF A**
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. DOI: 10.48550/arXiv.2409.06401. **MobileHCI: CCF B**
9. 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. **EuroVis: CCF B**
10. **Lijie Yao***, Anastasia Bezerianos, Romain Vuillemot, Petra Isenberg. Situated Visualization in Motion for Swimming. *Journée Visu 2022*, Jun 2022, Bordeaux, France. DOI: 10.48550/arXiv.2409.07695.
11. Federica Bucchieri*, **Lijie Yao**, Petra Isenberg. Visualization in Motion in Video Games for Different Types of Data. *JournéeVisu 2022*, Jun 2022, Bordeaux, France. DOI: 10.48550/arXiv.2409.07696.
12. **Lijie Yao***, Anastasia Bezerianos, Petra Isenberg. Situated Visualization in Motion. *Posters of the IEEE VIS*, Oct 2020, Salt Lake City, United States. 2020. DOI: 10.48550/arXiv.2409.07005. **IEEE VIS: CCF A**

Selected Proposals

13. Charles Perin*, Tica Lin, **Lijie Yao**, Yalong Yang, Maxime Cordeil, Wesley Willett. First-Person Visualizations for Outdoor Physical Activities: Challenges and Opportunities. *Selected workshop of the IEEE VIS*, Oct. 2024, Florida, United States. **IEEE VIS: CCF A**
14. **Lijie Yao***. Situated Visualization in Motion. *Selected proposals of Doctoral Colloquium of the IEEE VIS*, Oct. 2022, Oklahoma City, United States. **IEEE VIS: CCF A**

Thesis

15. **Lijie Yao***. Situated Visualization in Motion. Human-Computer Interaction [cs.HC]. Université Paris-Saclay, 2023. English. NNT: 2023UPASG093. URL: theses.hal.science/tel-04413122.

LANGUAGES

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