Zhongyi Zhou
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Professional Experience

- **RIKEN,** Tokyo — Apr. 2024 - Now
  Postdoctoral Researcher; Advisor: Tatsuya Harada
- **Google,** San Francisco/Tokyo — May 2023 - Mar. 2024
  Student Researcher; Advisor: Ruofei Du
- **National Institute of Informatics,** Tokyo — Nov. 2020 - Mar. 2023
  Research Assistant; Advisor: Yinqiang Zheng

Education

- **The University of Tokyo** — Sep. 2020 - Mar. 2024
  Ph.D. in Electrical Engineering and Information Systems
  - Supervisor: Koji Yatani
- **The University of Tokyo** — Sep. 2018 - Sep. 2020
  M.Eng. in Electrical Engineering and Information Systems
  - Supervisor: Koji Yatani
- **Shanghai Jiao Tong University** — Sep. 2014 - Jul. 2018
  B.S. in Mechanical Engineering

Brief Research Statement

I conduct research within the intersection of Human-computer Interaction (HCI) and Computer Vision (CV), focusing on how these two disciplines can jointly contribute to future interactive systems.

Publications

Peer-reviewed papers:

1. Anran Xu, **Zhongyi Zhou**, Kakeru Miyazaki, Ryo Yoshikawa, Simo Hosio, and Koji Yatani. DIPA2: An Image Dataset with Cross-cultural Privacy Perception Annotations. Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 7, 4, Article 192 (December 2023).
2. Zefan Sramek, Arissa J. Sato, **Zhongyi Zhou**, Simo Hosio, and Koji Yatani. SoundTraveller: Exploring Abstraction and Entanglement in Timbre Creation Interfaces for Synthesizers. In Proceedings of the 2023 ACM Designing Interactive Systems Conference (DIS '23). (**Best Demo Award**)
3. **Zhongyi Zhou** and Koji Yatani. Gesture-aware Interactive Machine Teaching with In-situ Object Annotations. In The 35th Annual ACM Symposium on User Interface Software and Technology (UIST '22). (**Covered by UTokyo News**)
4. Zhihang Zhong, Mingdeng Cao, Xiao Sun, Zhirong Wu, **Zhongyi Zhou**, Yinqiang Zheng, Stephen Lin, and Imari Sato. Bringing Rolling Shutter Images Alive with Dual Reversed Distortion. In Computer Vision - ECCV 2022 - 17th European Conference (**Oral**).
5. **Zhongyi Zhou**, Anran Xu and Koji Yatani. SyncUp: Vision-based Practice Support for Synchronized Dancing. Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. (IMWUT) 5, 3, Article 143 (September 2021), 25 pages. (**IMWUT Vol. 5 Distinguished Paper Award; Best Presentation Award at Ubicomp '21**)
6. Boyu Zhou, Xin He, **Zhongyi Zhou**, and Xinyi Le. An Image-Based Approach for Defect Detection on Decorative Sheets. In International Conference on Neural Information Processing. 2018.

Peer-reviewed workshop papers (demos, posters, etc.):

1. Ruofei Du, Na Li, Jing Jin, Michelle Carney, Xiuxiu Yuan, Kristen Wright, Mark Sherwood, Jason Mayes, Lin Chen, Jun Jiang, Jingtao Zhou, **Zhongyi Zhou**, Ping Yu, Adarsh Kowdle, Ram Iyengar, and Alex Olwal. Experiencing Visual Blocks for ML: Visual Prototyping of AI Pipelines. In The Adjunct Publication of the 36th Annual ACM Symposium on User Interface Software and Technology (UIST '23 Demo).
2. Anran Xu, **Zhongyi Zhou**, Kakure Miyazaki, Ryo Yoshikawa, Simo Hosio, Koji Yatani. DIPA: An Image Dataset with Cross-cultural Privacy Concern Annotations. In IUI 2023 Open Science track.
3. **Zhongyi Zhou**. Exploiting and Guiding User Interaction in Interactive Machine Teaching. In The Adjunct Publication of the 35th Annual ACM Symposium on User Interface Software and Technology (UIST '22 Doctoral Symposium).
4. **Zhongyi Zhou** and Koji Yatani. Enhancing Model Assessment in Vision-based Interactive Machine Teaching through Real-time Saliency Map Visualization. In The Adjunct Publication of the 34th Annual ACM Symposium on User Interface Software and Technology (UIST '21 Demo).
5. Hirotaka Hayashi, Anran Xu, **Zhongyi Zhou** and Koji Yatani. Vision-based Scene Analysis toward Dangerous Cycling Behavior Detection Using Smartphones. In Adjunct Proceedings of the 2021 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2021 ACM International Symposium on Wearable Computers (UbiComp-ISWC '21).
6. **Zhongyi Zhou**, Yuki Tsubouchi and Koji Yatani. Visualizing Out-of-synchronization in Group Dancing. In The Adjunct Publication of the 32nd Annual ACM Symposium on User Interface Software and Technology (UIST '19 Demo).

Selected Awards

- UbiComp Gaetano Borriello Outstanding Student Award Finalist 2023
- DIS '23 Best Demo Award 2023
- IMWUT Vol. 5 Distinguished Paper Award 2022
- Google PhD Fellow in HCI 2022
- UbiComp/ISWC '21 Best Presentation Award 2021
- Designing Future Society Fellow 2021, 2022, 2023
- Student Encouragement Award in the 68th IPSJ UBI Workshop 2021

Invited Talk

- **Learning with AI and Teaching AI** 2022
  - Google, host by Yang Li
  - HKUST, host by Mingming Fan
- **Exploiting and Guiding User Interaction in Interactive Machine Teaching** 2022
  - University of Washington, host by Ranjay Krishna
  - Microsoft, host by Gonzalo Ramos

Committee Services

- **Poster Presentation Chair**, CHI '25
- **Publication Chair**, UbiComp/ISWC '23
- **Program Committee**, ICML '23 AI & HCI Workshop
- **Assistant to Paper Chairs**, CHI '22
- **Reviewer**, UIST '22, '23 (**); CHI '23, '24 (**); IMWUT '22 (*); CSCW '24
- **Student Volunteer**, UIST '19

*: one Special Recognition for Outstanding Review

Media Coverage

- Machine learning, from you. UTokyo News 2022
  https://www.u-tokyo.ac.jp/focus/en/press/z0508_00253.html
- Announcing the 2022 PhD Fellows. Google Blog 2022
  https://blog.google/technology/research/announcing-the-2022-phd-fellows/

Reference

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