

Zhihang Zhong

🌐 <https://github.com/zzh-tech>

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EDUCATION

- **The University of Tokyo** Tokyo, JP
Ph.D., Department of Computer Science (GPA: 4.00/4.00) Sep. 2020 - Sep. 2023
- **The University of Tokyo – IME Program** Tokyo, JP
M.E., Department of Precision Engineering (GPA: 3.93/4.00) Oct. 2018 - Sep. 2020
- **Zhejiang University – Chu Kochen Honors College (top 5%)** Hangzhou, CN
B.E., Department of Mechatronics Engineering (GPA: 3.84/4.00) Sep. 2014 - Aug. 2018

Relevant courses: computer vision, computational photography, machine/deep learning, HCI, robotics

SKILLS

- **Programming:** Python, C/C++, Matlab, \LaTeX
- **Tools:** PyTorch, TensorFlow, OpenCV, Qt/PyQt, SQLite, Arduino, STM32

RESEARCH EXPERIENCES

- **Visual Computing Group, Microsoft Research Asia** Beijing, CN
JEM intern, supervised by Han Hu, Yuhui Yuan and Ji Li Apr. 2021 - now
 - Project: aesthetic-aware image smart cropping.
- **Visual Computing Group, Microsoft Research Asia** Beijing, CN
D-CORE intern, supervised by Steve Lin, Zhirong Wu and Xiao Sun Sep. 2021 - Mar. 2022
 - Project: multi-modal blur decomposition.
- **The University of Tokyo & National Institute of Informatics** Tokyo, JP
Ph.D. candidate, supervised by Imari Sato and Yinqiang Zheng Sep. 2020 - present
 - Project: joint tasks among video deblurring, interpolation, and rolling shutter correction.
- **Image Research Lab, Tokyo Research Center, Huawei** Tokyo, JP
Intern, supervised by Bo Zheng and Ye Gao Aug. 2019 - Aug. 2020
 - Project: efficient video deblurring and real-world dataset collection.
- **Research into Artifacts, Center for Engineering, The University of Tokyo** Tokyo, JP
M.E., supervised by Jun Ota Sep. 2018 - Aug. 2020
 - Project: automatic nursing skill assessment based on body sensor network.
- **State Key Lab of Fluid Power & Mechatronic Systems, Zhejiang University** Hangzhou, CN
B.E., supervised by Xin Li Aug. 2017 - Jun. 2018
 - Project: ultra-wide-band tracking system for wall-climbing robots.

PUBLICATIONS

Conferences

- [ECCV 2022] **Zhihang Zhong**, Xiao Sun, Zhirong Wu, Yinqiang Zheng, Stephen Lin, Imari Sato: “Animation from Blur: Multi-modal Blur Decomposition with Motion Guidance.” *Proceedings of the European Conference on Computer Vision*.
- [ECCV 2022] **Zhihang Zhong**, Mingdeng Cao, Xiao Sun, Zhirong Wu, Zhongyi Zhou, Yinqiang Zheng, Stephen Lin, Imari Sato: “Bringing Rolling Shutter Images Alive with Dual Reversed Distortion.” *Proceedings of the European Conference on Computer Vision*. **(Oral, top 2.7%)**
- [ECCV 2022] Yusheng Wang, Yunfan Lu, Ye Gao, Lin Wang, **Zhihang Zhong**, Yinqiang Zheng, Atsushi Yamashita: “Efficient Video Deblurring Guided by Motion Magnitude.” *Proceedings of the European Conference on Computer Vision*.

- [ECCVW 2022] Mingdeng Cao, **Zhihang Zhong**, Yanbo Fan, Jiahao Wang, Yong Zhang, Jue Wang, Yujiu Yang, Yinqiang Zheng: “Towards Real-World Video Deblurring by Exploring Blur Formation Process.” *Proceedings of the European Conference on Computer Vision*. (AIM Workshop)
- [CVPR 2022] Mingdeng Cao, **Zhihang Zhong**, Jiahao Wang, Yinqiang Zheng, Yujiu Yang: “Learning Adaptive Warping for Real-World Rolling Shutter Correction.” *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*.
- [CVPR 2021] **Zhihang Zhong**, Yinqiang Zheng, Imari Sato: “Towards Rolling Shutter Correction and Deblurring in Dynamic Scenes.” *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*.
- [ECCV 2020] **Zhihang Zhong**, Ye Gao, Yinqiang Zheng, Bo Zheng: “Efficient Spatio-Temporal Recurrent Neural Network for Video Deblurring.” *Proceedings of the European Conference on Computer Vision*. **(Spotlight, top %5)**
- [IUI 2020] **Zhihang Zhong**, Chingszu Lin, Taiki Ogata, Jun Ota: “Multi-attention Deep Recurrent Neural Network for Nursing Action Evaluation Using Wearable Sensor.” *Proceedings of the 25th International Conference on Intelligent User Interfaces*.

Journals

- [IJCV 2022] **Zhihang Zhong**, Ye Gao, Bo Zheng, Yinqiang Zheng, Imari Sato: “Real-world Video Deblurring: A Benchmark Dataset and An Efficient Recurrent Neural Network.” *International Journal of Computer Vision*.
- [IoTJ 2021] **Zhihang Zhong**, Chingszu Lin, Masako Kanai-Pak, Jukai Maeda, Yasuko Kitajima, Mitsuhiro Nakamura, Noriaki Kuwahara, Taiki Ogata, Jun Ota: “Multistream Temporal Convolutional Network for Correct/Incorrect Patient Transfer Action Detection Using Body Sensor Network.” *IEEE Internet of Things Journal*.

Services

- Program Committee/Reviewers: CVPR, ECCV, ACCV, BMVC, TPAMI, IJCV, TCSVT

FELLOWSHIPS & AWARDS

- Research Fellowship for Young Scientists (200,000 Yen/Month; Research grant: up to 1,500,000 Yen/Year), JSPS DC, Apr.1st, 2023 – Mar.31st 2025
- Fellowship for Creation of Intelligent World (180,000 Yen/Month; Research grant: 340,000 Yen/Year), The University of Tokyo, Apr.1st, 2021 – Sep.30th 2023
- Microsoft Research Asia D-CORE 2021 Fellowship (10,000\$), Nov. 17, 2020
- Excellent Master Thesis Award, Department of Precision Engineering, School of Engineering, The University of Tokyo, 2020.
- Monbukagakusho Honors Scholarship (48,000 Yen/Month), JASSO, Oct.1st 2018 – Mar.31st 2019.
- Master Kong Dream Scholarship (900,000 Yen), 2017.