Yaping Zhao

Nationality: China, Ethnic Group: Zhuang (minority)

zhaoyp18@tsinghua.org.cn | https://indigopurple.github.io

EDUCATION

Tsinghua University (Ranked 15th in QS World 2021), China   Aug. 2018 – Jun. 2021

M.S. in Data Science and Information Technology, Supervisor: Prof. Lu Fang   *GPA: 3.61/4.0*

Thesis: Cross-Camera Reference-based Video Processing and Synthesis

Beihang University (Ranked 151-200th in ARWU World 2020), China   Aug. 2014 – Jun. 2018

B.S. in Information System, Minor in Mathematics, Supervisor: Prof. Jichang Zhao   *GPA: 3.6/4.0*

Thesis: A Real Estate Data Visualization System based on Multi-source Heterogeneous Data

PUBLICATIONS

- **Y. Zhao**, G. Li, H. Zheng, Z. Wang. TSAMT: Time-Series-Analysis-based Motion Transfer among Multiple Cameras, CSOE International Computational Imaging Conference (CITA), 2021. (**Oral**)

- Q. Yang, **Y. Zhao** (**Co-first Author**). Revisit Dictionary Learning for Video Compressive Sensing under the Plug-and-Play Framework, SPIE Processing, 2021.

- **Y. Zhao**, M. Ji, R. Huang, B. Wang, S. Jin. EFENet: Reference-based Video Super-Resolution with Enhanced Flow Estimation, CAAI International Conference on Artificial Intelligence (CICAI), 2021.

- **Y. Zhao**, M. Ji, Y. Zhu, R. Huang, L. Fang, Cross-Camera Deep Colorization, IEEE Transactions on Imaging Processing (TIP, **impact factor: 9.340**), 2021 [under review].

- G. Li, **Y. Zhao**, M. Ji, X. Yuan, L. Fang. Zoom in to the Details of Human-centric Videos, the 27th IEEE International Conference on Image Processing (ICIP), 2020.

PATENTS

- L. Fang, J. Wen, C. Yuan, **Y. Zhao**, M. Ji, "A Cross-Scale Adaptive Information Mapping Imaging Method, Device and Medium," CN 202011249462.9.

- J. Zhao, **Y. Zhao**, H. Sheng, "A Real Estate Data Visualization System based on Multi-source Heterogeneous Data," CN 201810787881.4.

- L. Fang, J. Wen, C. Yuan, **Y. Zhao**, M. Ji, "A Light Field Super-Resolution Imaging System with Cross-Space-Time Mapping," to appear.

SOFTWARE COPYRIGHTS

- **Y. Zhao**, J. Zhao, H. Sheng, "HouseFinder: A Multi-view Real Estate Data Visualization System," CN 2018SR632945. [Demo]

SELECTED OFFERS

The University of Notre Dame (Ranked 18th in U.S. News National 2021), US

Ph.D. in Computer Science

The University of Rochester (Ranked 5th in Computer Vision in CS Rankings US 2019), US

Ph.D. in Computer Science

Alibaba Group Holding Limited (China's E-Commerce and IT Giant), China

Computer Vision Algorithm Engineer

Selected Honors

Contests
- Meritorious Winner in Mathematical Contest in Modeling (MCM) (**worldwide**), 2016
- The Third Prize Award in the 5th Cross-Strait Market Survey and Analysis Contest (**nationwide**), 2016

Scholarship
- First Prize Scholarship in Academic Contest, Beihang University, 2016
- Fourth Prize Scholarship in Excellent Student, Beihang University, 2016
- Third Prize Scholarship in Social Practice, Beihang University, 2016

Social Practice
- The First Prize Award in the 2nd "Internet+" National College Students Innovation and Entrepreneurship Contest in Beijing Area (and The Silver Award **Nationwide**), 2016
- Bronze Award in the 10th "Challenge Cup" Undergraduate Entrepreneurship Contest (**nationwide**), 2016
- Silver Award in the 26th "Fengru Cup" Entrepreneurship Contest of Beihang University, 2016
- Silver Award in the 25th "Fengru Cup" Entrepreneurship Contest of Beihang University, 2015

Referees

- Prof. Lu Fang, fanglu@tsinghua.edu.cn, **Tsinghua University**, CN
- Prof. Ruqi Huang, ruqihuang@sz.tsinghua.edu.cn, **Tsinghua University**, CN
- Prof. Jichang Zhao, jichang@buaa.edu.cn, **Beihang University**, CN
- Prof. Mengqi Ji, mji@tsinghua.edu.cn, **Beihang University**, CN
- Prof. Chaoli Wang, chaoli.wang@nd.edu, **the University of Notre Dame**, US
- Dr. Haitian Zheng, hzheng15@ur.rochester.edu, **the University of Rochester**, US

Teaching Experience

Teaching Assistant | *Computational Photography (86000603-200), Tsinghua University*   Mar. 2021 - Jun. 2021
*(Teaching and assessment throughout the course is undertaken **entirely in English**.)*
- Presented popular image-based algorithms, with an emphasis on using these techniques to build practical systems.
- Taught students to develop image analysis and synthesis tools to render and view scenes on computers.
- Checked and marked programming assignments.

Academic Activities

Talk
- CSOE International Computational Imaging Conference (CITA) | *Artificial Intelligence and Computational Imaging: Cross-Camera Video Processing and Synthesis*, Sep. 2021

Poster
- TBSI Workshop on Learning Theory (TBSI-WOLT) | *Cross-Camera Reference-based Video Processing and Synthesis*, Jun. 2021

Reviewer
- IEEE Winter Conference on Applications of Computer Vision (WACV) , 2022

Skills

- **Programming Languages** | Python, C/C++, Java, SQL, HTML/CSS, JavaScript, Matlab
- **Speaking Languages** | Chinese, English, Cantonese, Zhuang language
- **Libraries** | PyTorch, NumPy, Matplotlib, OpenCV, TensorFlow, pandas
- **Frameworks** | Flask, Django, SSH, SSM