

# Yaping Zhao

Nationality: China, Ethnic Group: Zhuang (minority)  
zhaoy18@tsinghua.org.cn | <https://indigopurple.github.io>



## EDUCATION

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**Tsinghua University (Ranked 15th in QS World 2021), China**

Aug. 2018 – Jun. 2021

*M.S. in Data Science and Information Technology, Advisor: Prof. Lu Fang*

*GPA: 3.61/4.0*

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

*(Tsinghua University Outstanding Master Thesis Candidate, 14 of 128)*

**Beihang University (Ranked 151-200th in ARWU World 2020), China**

Aug. 2014 – Jun. 2018

*B.S. in Information System, Minor in Mathematics, Advisor: Prof. Jichang Zhao*

*GPA: 3.6/4.0*

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

## PUBLICATIONS

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- **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 (Equal Contribution)**. 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

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- 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

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

## SELECTED OFFERS

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**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

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### 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

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- 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

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**Teaching Assistant** | *Computational Photography (8600603-200)*, 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

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### 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

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- **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