

Yang Liu

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Education

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|---|-------------------|
| Massachusetts Institute of Technology (MIT) | CAMBRIDGE, MA USA |
| PhD student in Department of Electrical Engineering and Computer Science (EECS) | 2019 – present |
| Advisor: Prof. Frédo Durand. GPA 4.8/5.0. | |
| Tsinghua University | BEIJING, CHINA |
| Master of Science in School of Information Science and Technology | 2016 – 2019 |
| Advisor: Prof. Qionghai Dai. GPA 4.0/4.0. | |
| Tsinghua University | BEIJING, CHINA |
| Bachelor of Science in School of Information Science and Technology | 2012 – 2016 |
| Thesis advisor: Prof. Qionghai Dai. GPA 92/100. | |

Publications

Journal Articles ([†]Equal contributions)

4. Xin Yuan[†], Yang Liu[†], Jinli Suo, Frédo Durand, and Qionghai Dai. Plug-and-Play Algorithms for Video Snapshot Compressive Imaging. *IEEE TPAMI*, 44 (10), 7093–7111, doi:10.1109/TPAMI.2021.3099035 (2022).
3. Zhihong Zhang[†], Chao Deng[†], Yang Liu, Xin Yuan, Jinli Suo, and Qionghai Dai. Ten-mega-pixel snapshot compressive imaging with a hybrid coded aperture. *Photonics Research*, 9 (11), 2277–2287, doi:10.1364/PRJ.435256 (2021).
2. Yang Liu[†], Xin Yuan[†], Jinli Suo, David J. Brady, and Qionghai Dai. Rank Minimization for Snapshot Compressive Imaging. *IEEE TPAMI*, 41 (12), 2990–3006, doi:10.1109/TPAMI.2018.2873587 (2019).
1. Yuwang Wang, Yang Liu, Jinli Suo, Guohai Situ, Chang Qiao, and Qionghai Dai. High Speed Computational Ghost Imaging via Spatial Sweeping. *Scientific Reports*, 7, 45325, doi:10.1038/srep45325 (2017).

Conference Proceedings

1. Xin Yuan, Yang Liu, Jinli Suo, and Qionghai Dai. Plug-and-Play Algorithms for Large-scale Snapshot Compressive Imaging. in *CVPR [Oral]*, 1447–1457, doi:10.1109/CVPR42600.2020.00152 (2020).
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Honors and Awards

Honors: Outstanding Master's Thesis of Tsinghua University (2019), Outstanding Postgraduate of Tsinghua University and the department (2019), Departmental Special Honor for Postgraduate Students (3/~600, 2018), Outstanding Graduate of Beijing and Tsinghua University (2016).

Scholarships: Takeda Fellowship from MIT-Takeda Program (2022), MIT Stata Family Presidential Fellowship (2019), Jiang Nanxiang Scholarship (finalist of Top-10 Graduate Scholarship of Tsinghua University, 30/~30,000, 2018), Samvo-Chan Shung Fai Scholarship (2014), National Endeavor Scholarship (2013 & 2015), Cyrus Tang Scholarship (2013, 2014 & 2015), and HAGE Scholarship (2013, 2014 & 2015).

Research Experience

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| Massachusetts Institute of Technology (MIT) | CAMBRIDGE, MA USA |
| Graduate Research Assistant | Sep 2019 – present |
| Working on computational photography and synthetic image generation. Advisor: Prof. Frédo Durand. | |
| Tsinghua University | BEIJING, CHINA |
| Graduate Research Assistant | Sep 2015 – Jul 2019 |
| Worked on optimization tools for computational photography. Advisor: Prof. Qionghai Dai. | |

Teaching Experience

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| Digital and Computational Photography 6.815/6.865 lectured by Prof. Frédo Durand | MIT |
| Teaching Assistant | Fall 2020 |
| Problem sets, online Q&A, and office hours [virtual]. Evaluation 7.0/7.0. | |
| Computer Language and Programming (using C) lectured by Prof. Jinli Suo | TSINGHUA UNIVERSITY |
| Teaching Assistant | Fall 2018 |
| Deploy and maintain an online judge system, design problem sets, and review the solutions of midterm and final exams. | |