Contact Information	Ph.D. student, ECE Department Rice University Houston, TX 77005	Email: yicheng.wu@rice.edu Website: <b>yicheng.rice.edu</b>	
Research Interests	Computer Vision, Computational Photography, and Deep Learning		
Education	Rice University, Houston, TX, USA		
	<ul><li>Ph.D., Electrical and Computer Engineering</li><li>Advisor: Ashok Veeraraghavan, Ph.D.</li><li>GPA: 4.01/4.00</li></ul>	Aug 2015 to present	
	Beijing Normal University, Beijing, China		
	<ul> <li>B.S., Physics</li> <li>GPA: 92.1/100 Ranking: 1/137</li> <li>Top 10 Students at BNU (top 0.5%), National</li> </ul>	Sept 2011 to June 2015 Fellowship	
Internships	Google Research, Gcam	May 2020 to Nov 2020	
	<ul> <li>Advisors: Qiurui He, Tianfan Xue, Rahul Garg, Jiawen Chen, Jon Barron</li> <li>Project: Single-image lens flare removal</li> </ul>		
	Microsoft Research	May 2017 to Aug 2017 $$	
	<ul> <li>Advisor: Brian Guenter</li> <li>Project: Multi-user augmented reality applications with low latency and high rendering quality</li> </ul>		
PUBLICATIONS	<ol> <li>Yicheng Wu, Qiurui He, Tianfan Xue, Rahul Garg, Jiawen Chen, Ashok Veerara- ghavan, Jonathan T. Barron. "Single-Image Lens Flare Removal." arXiv preprint arXiv:2011.12485. (2020)</li> </ol>		
	<ol> <li>Lingbo Jin, Yubo Tang, Yicheng Wu, Jackson B. Coole, Melody T. Tan, Xuan Zhao, Hawraa Badaoui, Jacob T. Robinson, Michelle D. Williams, Ann M. Gillen- water, Rebecca R. Richards-Kortum, Ashok Veeraraghavan. "Deep Learning Extended Depth-of-field Microscope for Fast and Slide-free Histology." <i>Proceedings</i> of the National Academy of Sciences. (Accepted Nov 2020)</li> </ol>		
	3. Yicheng Wu, Vivek Boominathan, Xuan Zhao, Jacob T. Robinson, Hiroshi Kawasaki, Aswin Sankaranarayanan, Ashok Veeraraghavan. "FreeCam3D: Snapshot structured light 3D with freely-moving cameras." European Conference on Computer Vision. (2020)		
	4. Yicheng Wu, Fengqiang Li, Florian Willomitzer, Ashok Veeraraghavan, Oliver Cossairt. "WISHED: Wavefront imaging sensor with high resolution and depth ranging." <i>IEEE Internati-onal Conference on Computational Photography.</i> (2020)		
	<ol> <li>Yicheng Wu, Vivek Boominathan, Huaijin Chen, Aswin Sankaranarayanan, Ashok Veeraraghavan. "PhaseCam3D – Learning phase masks for passive single view depth estimation." <i>IEEE International Conference on Computational Photo-</i> graphy. (2019) (Best Poster Award)</li> </ol>		
	6. Yicheng Wu, Manoj Kumar Sharma, Ashok Veeraraghavan. "WISH: Wavefront imaging sensor with high resolution." Nature Light: Science & Applications. (2019)		

	<ol> <li>Jason Holloway, Yicheng Wu, Manoj Kumar Sharma, Oliver Cossairt, Ashok Veeraraghavan. "SAVI: Synthetic apertures for long-range, subdiffraction-limited visible imaging using Fourier ptychography." Science Advances. (2017)</li> </ol>	
	8. Yicheng Wu, Jialin Ma, Yi Yang, Ping Sun. "Improvements of measuring the width of Fraunhofer diffraction fringes using Fourier transform." <i>Optik-International Journal for Light and Electron Optics.</i> (2015)	
	9. Yicheng Wu, Chengdong He, Yuzhuo Wang, Xuan Liu, Jing Zhou. "Controlling the wave propagation through the medium designed by linear coordinate transfor- mation." <i>European Journal of Physics.</i> (2014)	
Patent	1. Passive and single-viewpoint 3d imaging system. US20200349729A1 (2020)	
	2. Wish: Wavefront imaging sensor with high resolution. US20200351454A1 $(2020)$	
	3. Synthetic apertures for long-range, sub-diffraction limited visible imaging using Fourier Ptychography. US20200150266A1 (2020)	
Teaching	Teaching Assistant	
EXPERIENCE	• ELEC 549: Computational Photography Fall 2017, 2019	
	• ELEC/COMP 447/546: Introduction to Computer Vision Spring 2018, 2020	
Award	Ken Kennedy Institute Oil & Gas HPC Conference Graduate Fellowship Oct 2018	
	Robertson Finley Travel Award	
	Sep 2018	
Skills	Python (TensorFlow, OpenCV), MATLAB, C++, C, C $\sharp,$ Mathematica	
LEADERSHIP	Chairman of Student Union in Physics Department May 2013 to May 2014	