

Education	Ph.D. in Computer Science Cornell University Advisor: Kavita Bala	August 2008 – August 2014 Ithaca, NY, USA
	B.Eng. in Computer Science Shanghai Jiao Tong University	September 2003 – July 2007 Shanghai, China
Experience	Assistant Professor University of California, Irvine	July 2015 – Present Irvine, CA, USA
	Postdoctoral Associate Massachusetts Institute of Technology	September 2014 – June 2015 Cambridge, MA, USA
	Research Assistant Cornell University	August 2008 – August 2014 Ithaca, NY, USA
Publications	<i>Refereed Journal Articles</i>	
	J1. “Modeling and Rendering Heterogeneous Translucent Materials using Diffusion Equation” by Jiaping Wang, Shuang Zhao , Xin Tong, Stephen Lin, Zhouchen Lin, Yue Dong, Baining Guo, and Heung-Yeung Shum. <i>ACM Transactions on Graphics</i> , 27(1), March 2008. Presented at SIGGRAPH 2009.	
	J2. “Modeling Anisotropic Surface Reflectance with Example-Based Microfacet Synthesis” by Jiaping Wang, Shuang Zhao , Xin Tong, John Snyder, and Baining Guo. <i>ACM Transactions on Graphics</i> , 27(3), August 2008. Presented at SIGGRAPH 2008.	
	J3. “Single Scattering in Refractive Media with Triangle Mesh Boundaries” by Bruce Walter, Shuang Zhao , Nicolas Holzschuch, and Kavita Bala. <i>ACM Transactions on Graphics</i> , 28(3), August 2009. Presented at SIGGRAPH 2009.	
	J4. “Automatic Bounding of Programmable Shaders for Efficient Global Illumination” by Edgar Velázquez-Armendáriz, Shuang Zhao , Miloš Hašan, Bruce Walter, and Kavita Bala. <i>ACM Transactions on Graphics</i> , 28(5), December 2009. Presented at SIGGRAPH Asia 2009.	
	J5. “Building Volumetric Appearance Models of Fabric using Micro CT Imaging” by Shuang Zhao , Wenzel Jakob, Steve Marschner, and Kavita Bala. <i>ACM Transactions on Graphics</i> , 30(4), July 2011. Presented at SIGGRAPH 2011.	
	J6. “Single View Reflectance Capture using Multiplexed Scattering and Time-of-Flight Imaging” by Nikhil Naik, Shuang Zhao , Andreas Velten, Ramesh Raskar, and Kavita Bala. <i>ACM Transactions on Graphics</i> , 30(5), December 2011. Presented at SIGGRAPH Asia 2011.	
	J7. “Structure-Aware Synthesis for Predictive Woven Fabric Appearance” by Shuang Zhao , Wenzel Jakob, Steve Marschner, Kavita Bala. <i>ACM Transactions on Graphics</i> , 31(4), July 2012. Presented at SIGGRAPH 2012.	
	J8. “Modular Flux Transfer: Efficient Rendering of High-Resolution Volumes with Repeated Structures” by Shuang Zhao , Miloš Hašan, Ravi Ramamoorthi, and Kavita Bala. <i>ACM Transactions on Graphics</i> , 32(4), July 2013. Presented at SIGGRAPH 2013.	
	J9. “Understanding the Role of Phase Function in Translucent Appearance” by Ioannis Gkioulekas, Bei Xiao, Shuang Zhao , Edward Adelson, Todd Zickler, and Kavita Bala. <i>ACM Transactions on Graphics</i> , 32(5), September 2013. Presented at SIGGRAPH 2013.	

- J10. “Inverse Volume Rendering with Material Dictionaries” by Ioannis Gkioulekas, **Shuang Zhao**, Kavita Bala, Todd Zickler, and Anat Levin. *ACM Transactions on Graphics*, 32(6), November 2013. **Presented at SIGGRAPH Asia 2013.**
- J11. “High-Order Similarity Relations in Radiative Transfer” by **Shuang Zhao**, Ravi Ramamoorthi, and Kavita Bala. *ACM Transactions on Graphics*, 33(4), July 2014. **Presented at SIGGRAPH 2014.**
- J12. “Building Volumetric Appearance Models of Fabric using Micro CT Imaging” by **Shuang Zhao**, Wenzel Jakob, Steve Marschner, and Kavita Bala. *Communications of the ACM (Research Highlights)*, 57(11), November 2014.
- J13. “Matching Real Fabrics with Micro-Appearance Models” by Pramook Khungurn, Daniel Schroeder, **Shuang Zhao**, Kavita Bala, and Steve Marschner. *ACM Transactions on Graphics*, 35(1), December 2015. **Presented at SIGGRAPH 2016.**
- J14. “Fitting Procedural Yarn Models for Realistic Cloth Rendering” by **Shuang Zhao**, Fujun Luan, and Kavita Bala. *ACM Transactions on Graphics*, 35(4), July 2016. **Presented at SIGGRAPH 2016.**
- J15. “Downsampling Scattering Parameters for Rendering Anisotropic Media” by **Shuang Zhao***, Lifan Wu*, Frédo Durand, and Ravi Ramamoorthi (*: joint first authors). *ACM Transactions on Graphics*, 35(6), November 2016. **Presented at SIGGRAPH Asia 2016.**
- J16. “Inverse Diffusion Curves using Shape Optimization” by **Shuang Zhao**, Frédo Durand, and Changxi Zheng. *IEEE Transactions on Visualization and Computer Graphics*, in press, 2017.
- J17. “Real-Time Linear BRDF MIP-Mapping” by Chao Xu, Rui Wang, **Shuang Zhao**, and Hujun Bao. *Computer Graphics Forum (Eurographics Symposium on Rendering)*, 2017.
- J18. “Fiber-Level On-the-Fly Procedural Textiles” by Fujun Luan, **Shuang Zhao**, and Kavita Bala. *Computer Graphics Forum (Eurographics Symposium on Rendering)*, 2017.

Others

- C1. “Effects of Shape and Color on the Perception of Translucency” by Bei Xiao, Ioannis Gkioulekas, Asher Dunn, **Shuang Zhao**, Todd Zickler, Edward Adelson, and Kavita Bala. *Vision Science Society Annual Meeting* 2012.
- C2. “Computational Imaging for Inverse Scattering” by Ioannis Gkioulekas, Kavita Bala, Frédo Durand, Anat Levin, **Shuang Zhao**, and Todd Zickler. *Electronic Imaging* 2016.

Teaching

SIGGRAPH Courses

“Recent Advances in Physically-Based Appearance Modeling of Cloth” by Kai Schröder, **Shuang Zhao**, and Arno Zinke. *SIGGRAPH Asia 2012 Course*.

University Courses

CS114	Projects in Advanced 3D Computer Graphics.	Spring 2016
ICS162	Modeling and World Building.	Winter 2017
CS114	Projects in Advanced 3D Computer Graphics.	Spring 2017
CS295	Realistic Image Synthesis.	Spring 2017

Professional Activities

Information Director

ACM Transactions on Graphics, 2015–present

Papers Program Committee

ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games (I3D) 2016
Eurographics Symposium on Rendering (EGSR) 2017
CAD/Graphics 2017

Courses Program Committee

ACM SIGGRAPH Asia 2015, 2016

Reviewer

ACM SIGGRAPH, ACM SIGGRAPH Asia, Eurographics, Pacific Graphics

ACM Transactions on Graphics (TOG), ACM Transactions on Applied Perception (TAP), IEEE Transactions on Visualization and Computer Graphics (TVCG), IEEE Transactions on Image Processing (TIP)