

Qi Sun

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- WORK** **Research Scientist** June 2018 - Now
- Adobe Research, San Jose, CA
- EDUCATION** **Doctor of Philosophy** Aug. 2013 - May 2018
- Center of Visual Computing, Computer Science, Stony Brook University
Advisor: Distinguished Professor Arie E. Kaufman
Thesis: Computational Methods for Immersive Perception
- Bachelor of Science** Aug. 2013
- Mathematics
Taishan Honors College, Shandong University, China Sep. 2010 - Aug. 2013
 - Computer Science and Technology
Shandong University, China Sep. 2009 - Sep. 2010
- PUBLICATIONS** **Towards Virtual Reality Infinite Walking: Dynamic Saccadic Redirection**
Qi Sun, Anjul Patney, Li-Yi Wei, Omer Shapira, Jingwan Lu, Paul Asente, Suwen Zhu, Morgan McGuire, David Luebke, Arie Kaufman
SIGGRAPH 2018
- Perceptually-Guided Foveation for Light Field Displays**
Qi Sun, Fu-Chung Huang, Joohwan Kim, Li-Yi Wei, David Luebke, Arie Kaufman
SIGGRAPH Asia 2017
- Perceptual Studies for Foveated Light Field Displays**
Joohwan Kim, **Qi Sun**, Fu-Chung Huang, Li-Yi Wei, David Luebke, Arie Kaufman
arXiv:1708.06034
- Mapping Virtual and Physical Reality**
Qi Sun, Li-Yi Wei and Arie E. Kaufman
SIGGRAPH 2016
- Poster: Buyers Satisfaction in A Virtual Fitting Room Scenario Based on Realism of Avatar**
Qi Sun, Seyedkoosha Mirhosseini, Ievgeniia Gutenko, Ji Hwan Park, Charilaos Papadopoulos, Bireswar Laha, and Arie E. Kaufman
IEEE Symposium on 3D User Interfaces, 3DUI 2015
- Benefits of 3D Immersion for Virtual Colonoscopy**
Koosha Mirhosseini, **Qi Sun**, Krishna Gurijala, Bireswar Laha, Arie Kaufman
IEEE Visualization Workshop on 3DVis 2014
- Data-Driven Human Motion Synthesis Based on Angular Momentum Analysis**
Ping Hu, **Qi Sun**, Xiangxu Meng, and Jingliang Peng

IEEE International Symposium on Circuits and Systems, IEEE-ISCAS 2013

Modeling 3D Faces from Samplings via Compressive Sensing

Qi Sun, Yanlong Tang, and Ping Hu

International Conference on Digital Image Processing, ICDIP 2013

Kinect-Based Automatic 3D High-Resolution Face Modeling

Qi Sun, Yanlong Tang, Ping Hu, and Jingliang Peng

International Conference on Image Analysis and Signal Processing, IEEE-IASP 2012

EXPERIENCE

Research Intern

Jul. 2017 - Sep. 2017

Adobe Research, Procedural Imaging Group (San Jose, CA)

- Augmented Reality
- With Paul Asente, Cynthia Lu and Li-Yi Wei

Research Intern

April. 2017 - Jul. 2017

NVIDIA Research, New Experiences Group (Redmond, WA)

- Computational perception in VR
- With Anjul Patney, Morgan McGuire, Omer Shapira, Aaron Lefohn and David Luebke

Research Intern

Jun. 2016 - Aug. 2016

NVIDIA Research, New Experiences Group (Santa Clara, CA)

- Computational display and perceptual rendering for next generation VR.
- With Fu-Chung Huang, Joohwan Kim and David Luebke

Research Assistant

Jan. 2014 - present

Stony Brook University

Research Interests: parameterization, non-linear rendering, point cloud processing/modeling and their applications in virtual reality and scientific visualization.

Research Intern

Nov. 2012 - Feb. 2013

Microsoft Research Asia, Hardware Computing Group (Beijing, China)

- Worked on an audio-visual fusion project for detecting Kinect users' attention in order to optimize the device's response.
- Developed a data set for camera-based gaze estimation in remote scenario.

Undergraduate Research Assistant

Sep. 2010 - Nov. 2012

Research Center for HCI and VR

Shandong University, Jinan, China

PRESS/MEDIA

BBC Click TV Program, SIGGRAPH blog, IEEE, Adobe News, NVIDIA Blog, Two Minute Papers, Stony Brook News, Road to VR, Hackaday, VR Focus, VR World, Inverse, ScienceDaily, eurekaAlert, newsAtlas, Sohu.com (Chinese), Red-Shark News, VR Soldier, 4gamer (Japanese) Virtual Reality Magazine (German), Microsiervos (Spanish) etc.

Towards Virtual Reality Infinite Walking

Business Wire (SIGGRAPH Technical Papers Preview), Seamless Virtual Reality News (Japanese), leiphone.com/sina.cn etc. (Chinese), Tencent gameinstitute

2016 white paper, Game II DOOSAN Gallery New York
Mapping Virtual and Physical Reality

Road to VR, Seamless Virtual Reality News (Japanese)
Perceptually-Guided Foveation for Light Field Displays

**TEACHING/
ADVISING**

Guest Lecturer
CSE 564: Visualization, Stony Brook University 2018 Spring

Teaching Assistant
CSE 214: Computer Science II, Stony Brook University 2013 Fall

Mentor
CSE 593: Independent Study in Computer Science,
Stony Brook University 2013 Fall, 2014 Spring

Advisees
Yichao Zhou, PhD student at UC Berkeley
Dushyant Goyal, Masters student at Stony Brook University, Now Machine Learning Research Engineer at Element Inc

INVITED TALKS

Towards Virtual Reality Infinite Walking
GPU Technology Conference (GTC), San Jose 2018

Computational Methods for Immersive Perception
Harvard University, Cambridge 2018
University of Florida, Gainesville 2018
Adobe Research, San Jose 2017
games-cn Webinar 2017

SERVICE

Reviewer
SIGGRAPH, IEEE VIS, Computer Graphics Forum (CGF), ACM Transaction on Graphics (TOG), UIST, IEEE 3DUI, IEEE VR, IEEE Consumer Electronics Magazine

AWARDS

Stony Brook Computer Science Special Chair Fellowship 2013 - 2014
Outstanding Bachelor Thesis Award of Shandong Province, China 2013