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CONTACT INFORMATION

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CURRENT

University of California, Irvine (UCI) **Irvine, CA, US**
Ph.D Student in Computer Science **Sept. 2016 – present**
Advisor: ZHAO Shuang
Interests: Computer Graphics

PREVIOUS EDUCATION

University of Chinese Academy of Sciences (UCAS) **Beijing & Shenzhen, China**
M.S. in Computer Science **Sept. 2010 – Jul. 2013**
Thesis: GPU-based Soft Body Deformation with Nonlinear Finite Element Method.
Advisor: HENG Pheng-Ann (CUHK)
Major courses: Combinatorial Mathematics; Matrix Analysis; Stochastic Process; Computer Aided Geometric Design; Computer Graphics; Computer Vision; Visualization.

Central South University (CSU) **Changsha, China**
B.S. in Mathematics and Applied Mathematics **Sept. 2006 – Jul. 2010**
Thesis: Forces Distribution with Fractal Theory in High Velocity Compaction Technology.
Major courses: Mathematical Analysis; Linear Algebra; Spatial and Analytical Geometry; Real Analysis & Functional Analysis; Modern Algebra; Topology; Partial Differential Equation; Optimal Theory.

PREVIOUS PUBLICATIONS

"**A Virtual Try-on System For Prescription Eyeglasses**" by Qian Zhang, **Yu Guo**, Pierre-Yves Laffont, Tobias Martin, and Markus Gross. *Journal Of Computer Graphics And Applications (CG&A), 2016.*

"**Physically Based Video Editing**" by Jean-Charles Bazin, Claudia Pluss (Kuster), **Yu Guo**, Tobias Martin, Alec Jacobson, and Markus Gross. *Computer Graphics Forum (CGF), 2016 (Presented at PG 2016).*

"**Holistic and featural processing for 2D and 3D face recognition**" by Derric Eng, Belle Yick, **Yu Guo**, Hong Xu, Miriam Reiner, Tat-Jen Cham, and Annabel Chen. *Asia-Pacific Conference on Vision (APCV), Singapore, 2015.*

"**GPU Accelerated CBCT Reconstruction from Few Views with SART and TV Regularization**" by Ping Liu, Lin Shi, Defeng Wang, **Yu Guo**, Jianying Li, Jing Qin, and Pheng-Ann Heng. *International Workshop on High Performance Computing for Biomedical Image Analysis (HPC-MICCAI), Japan, 2013.*

"**Real-time Hand Detection Based on Multi-stage HOG-SVM Classifier**" by Jiang Guo, Jun Cheng, Jianxin Pang, and **Yu Guo**. *International Conference on Image Processing (ICIP), Australia, 2013.*

"**A GPU-Accelerated Finite Element Solver for Simulation of Soft-Body Deformation**" by **Yu Guo**, Jianying Li, Ping Liu, Qiong Wang, and Jing Qin. *International Conference on Information and Automation (ICIA), China, 2013.*

"**A Survey on Simulation of Soft Tissue Deformation in Virtual Surgery**(In Chinese)" by **Yu Guo**, Jing Qin. *Journal of Integration Technology (JIT), 2013.*

"**Fall over or Sliding down?**" by **Yu Guo**. *Siggraph Asia (Poster), Singapore, 2012.*

"**A Master-Slave Robotic Simulator Based on GPUDirect**" by Jianying Li, **Yu Guo**, Heye Zhang, Yongming Xie. *International Conference on Intelligent Robots and Systems (IROS), Portugal, 2012.*

Previous Experiences

Nanyang Technological University (NTU) — **Singapore**
Research Associate at BeingThere Centre (BTC), IMI — **Oct. 2013 – Mar. 2016**
Working on stereo rendering; physical-based video manipulation; virtual try-on system for prescription eyeglasses.
Collaborators: Miriam REINER *(Technion)*, Jean-Charles BAZIN *(Disney Zürich)*, Tobias MARTIN *(ETH Zürich)*, Claudia PLÜSS *(ETH Zürich)*, Pierre-Yves LAFFONT *(ETH Zürich)*, ZHANG Qian
Advisor: CHAM Tat-Jen

Shenzhen Institutes of Advanced Technology (SIAT) — **Shenzhen, China**
Research Assistant — **Sept. 2011 – Jul. 2013**
Working on mesh processing; soft body simulation; virtual surgery; CUDA acceleration.
Collaborators: XIE Yongming, LI Jianying, LIU Ping.
Advisor: HENG Pheng-Ann

Previous Awards

2nd class prize in 4th *ACM CSU Collegiate Programming Contest*.	CSU, China	2010
1st class prize in 3rd *CSU Mathematical Contest in Modeling*.	CSU, China	2008
1st class prize in National High School Student Mathematics Competition.	China	2005

Computer Skills

Programming Tools: C/C++, CUDA, MATLAB, Python
CG & CV: OpenGL, GLSL, Mitsuba, OpenCV, Visual SFM, Kinect, Faceshift
Others: Mendeley, Git, LaTeX