

# Mingze YUAN

## Computer Graphics, Computer Vision, Machine Learning

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## 📁 RESEARCH EXPERIENCE

<b>Present</b> <b>Sep. 2019</b>	<b>Research Software Engineer</b> – Department of Computer Science, University of Bath, UK <b>Line Manager</b> : <i>Christian Richard</i> <ul style="list-style-type: none"><li>➢ Researched on new viewpoint image synthetic method</li><li>➢ Developed the 6DoF image base rendering project</li><li>➢ Developed panoramic RGBD and optical flow data synthesis project</li></ul> <div>Virtual Reality SLAM Image Based Rendering</div>
<b>Jun. 2019</b> <b>May. 2014</b>	<b>Research Assistant</b> – Institute of Computing Technology, Chinese Academy of Sciences , P.R. China <b>Advisors</b> : <i>Shihong Xia, Lin Gao</i> <ul style="list-style-type: none"><li>➢ Researched on temporal upsampling of depth maps</li><li>➢ Researched on RGB-D scene flow methods using optimization and CNN based approach</li><li>➢ Researched on 3D model deformation and registration</li><li>➢ Developed face detection, alignment and recognition algorithm</li><li>➢ Built a real-world RGB-D dataset with the goal to evaluation of depth temporal upsampling</li></ul> <div>RGB-D Image Processing Optical Flow Geometry Registration Motion capture</div>

## 🎓 EDUCATION

<b>2014- 2019</b>	<b>Ph.D. in Computer Science</b> , University of Chinese Academy of Sciences (UCAS), P.R.China <ul style="list-style-type: none"><li>➢ Dissertation : Temporal Upsampling of Depth Maps Using a Hybrid Camera, Supervisor : Shihong Xia</li></ul>
<b>2011 - 2014</b>	<b>Master in Computer Science</b> , 15th Research Institute of China Electronics Technology Group Corporation (CETC 15), P.R.China
<b>2007 - 2011</b>	<b>Bachelor in Computer Science</b> , University of Electronic Science and Technology of China (UESTC), P.R.China

## 📖 PUBLICATIONS

### JOURNAL

- J1. OmniPhotos : Casual 360° VR Photography with Motion Parallax**  
Tobias Bertel, **Mingze Yuan**, Reuben Lindroos, Christian Richardt  
ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia),39(6),2020
- J2. Temporal upsampling of depth maps using a hybrid camera**  
**Mingze Yuan**, Lin Gao, Hongbo Fu, and Shihong Xia.  
IEEE Transactions on Visualization and Computer Graphics (TVCG), 25(3), 2018
- J4. Facial Feature Points Tracking System and Simulation Analysis**  
**Mingze Yuan**, and Shihong Xia  
Journal of System Simulation,30 (12), 2018
- J3. A survey on human performance capture and animation**  
Shihong Xia, Lin Gao, Yukun Lai, **Mingze Yuan**, and Jinxiang Chai  
Journal of Computer Science and Technology, 32 (3), 2017

### CONFERENCE

- C1. SF-Net : Learning scene flow from RGB-D images with CNNs**  
Yi-Ling Qiao, Lin Gao, Yukun Lai, Fang-Lue Zhang, **Mingze Yuan** and Shihong Xia  
British Machine Vision Conference (BMVC) 2018
- C2. A Marker-less Motion Capture Method Combining Body Capture and Face Capture**  
Zhiyong Wang, Congyi Wang, Zihao Zhang, **Mingze Yuan**, Shihong Xia  
Chinagraph 2018

## HONORS AND AWARDS

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- 2018 The First-Class Prize of China Computer Federation (CCF) Science and Technology Award for Technical Invention, "Key Technology and Application of 3D Human Motion Modeling"
- 2018 UCAS - E Funda Financial Technology Scholarship
- 2018 Pacemaker to Merit Student of UCAS
- 2015 Outstanding Volunteer of CCF

## SKILLS

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<b>Programming</b>	C++/C, Python, $\text{\LaTeX}$ , Matlab, HTML, SQL, Java, JavaScript, Assembly
<b>Development Tools</b>	GCC, GDB, Vim, Visual studio, Eclipse, SVN, Git
<b>Multimedia Tools</b>	Blender, GIMP, Inkscape, Adobe Premiere/Encoder/Photoshop, Ffmpeg
<b>Machine Learning Framework</b>	Caffe, TensorFlow
<b>Misc.</b>	Computer Architecture, Principles of Operating System