Ming-Ze YUAN
Computer Graphics, Computer Vision, Machine Learning | Ph.D

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🎓 EDUCATION

September 2014 — Present	**University of Chinese Academy of Sciences (UCAS)**, Beijing, P.R.China › Ph.D. Candidate in Computer Science, Expected July 2019 › Advisor : Prof. Shihong Xia
Sept 2011 — Sept 2014	**the 15th Research Institute of China Electronics Technology Group Corporation (CETC 15)**, Beijing, P.R.China › M.S. in Computer Science › Advisor : Prof. Fuzhen Hao
Sept 2007 — Sept 2011	**University of Electronic Science and Technology of China (UESTC)**, Chengdu, P.R.China › B.Eng. in Computer Science

📖 PUBLICATIONS

Temporal upsampling of depth maps using a hybrid camera
Ming-Ze Yuan, Lin Gao, Hongbo Fu, and Shihong Xia.
IEEE Transactions on Visualization and Computer Graphics(**TVCG**), 2019

A survey on human performance capture and animation
Shihong Xia, Lin Gao, Yukun Lai, **Ming-Ze Yuan**, and Jinxiang Chai
Journal of Computer Science and Technology, 32(3), 536-554.

SF-Net : Learning scene flow from RGB-D images with CNNs
Yi-Ling Qiao, Lin Gao, Yukun Lai, Fang-Lue Zhang, **Ming-Ze Yuan** and Shihong Xia
British Machine Vision Conference (**BMVC**), 2018

Facial Feature Points Tracking System and Simulation Analysis
Ming-Ze Yuan, and Shihong Xia
Journal of System Simulation, 2018,30(12),4618-4624

A Marker-less Motion Capture Method Combining Body Capture and Face Capture
Zhiyong, Wang, Congyi Wang, Zihao Zhang, **Ming-Ze Yuan**, Shihong Xia
Chinagraph 2018

📑 PATENTS

- Method and system of face animation generation driven by text voice, CN201510876078
- Method and system for deducing sudden event situation based on case, CN201510398451

💼 RESEARCH & ENGINEERING EXPERIENCE

Present — May 2014	**Human Motion Research Group,Institute of Computing Technology (ICT), Chinese Academy of Sciences (CAS)**, Beijing, P.R. China *Research Assistant* **Advisors** : Prof. Shihong Xia, Prof. Lin Gao › Temporal upsampling of depth maps using a hybrid camera › RGB-D scene flow estimation use optimization and CNN based method, respectively › 3D model deformation and registration, model registration method based on depth point cloud › Face detection, alignment and recognition method research › Build RGB-D dataset with capture, time and space alignment of RGB-D data RGB-D Upsampling Scene Flow Optical Flow Geometry Registration Motion capture

| May 2014 | **CETC 15**, Beijing, P.R. China |
| September 2011 | *Research Assistant*   **Supervisor** : Fuzhen Hao (Senior Engineer) |

> 2D barcode coding and recognition principle research and development
> Data Bus for Enterprise Resource Planning (ERP) System research and development
> Optimization method of supply chain research

[Barcode Encoding Theory] [Enterprise Resource Planning (ERP)]

| May 2011 | **UESTC**, Chengdu, P.R. China |
| September 2007 | *Research Assistant*   **Supervisor :** Prof. Guiduo Duan |

> Research on digital watermarking algorithm based on wavelet, DCT, etc.
> Embedded microsystem development based on μC/OS-II and TI MSP430

[Image Processing] [Computer Architecture]

🎓 HONORS AND AWARDS

2018	China Computer Federation (CCF) Science and Technology Award for Technical Invention First Prize, '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

Programming	C++/C, Python, Latex, Matlab, HTML, SQL, Java, JavaScript, Assembly
Development Tools	GCC, GDB, Vim, Visual studio, Eclipse, SVN, Git
Multimedia Tools	Blender, GIMP, Inkscape, Adobe Premiere/Encoder/Photoshop, Ffmpeg
Neural Network Framework	Caffe, TensorFlow
Misc.	Computer Architecture, Principles of Operating System

❝ REFERENCES

Prof. Shihong Xia	**Prof. Lin Gao**	**Prof. Hongbo Fu**
ICT	*ICT*	*School of Creative Media*
CAS	CAS	CITY UNIV. OF HONG KONG
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