Qingguo Xu

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Education

Master, Computer Science — Sep 2015 - May 2017
University of Kentucky
- Thesis Topic: 3D Body Tracking using Deep Learning
- Advisors: Ruigang Yang

PEIK program, Electrical and Computer Engineering — Sep 2013 - May 2015
University of Kentucky
- Power and Energy Institute of Kentucky (PEIK) certification

Visiting student — May 2012 - May 2013
Institute of Computing Technology Chinese Academy of Sciences
- Advisors: Jianfeng Zhan
- Topic: Software aging

Master candidate, Computer Science — Sep 2011 - 2012 May
Xi'an Jiaotong University
- Advisors: Yong Qi
- Topic: Software aging

Bachelor, Computer Science — Sep 2007 - May 2011
Xi'an Jiaotong University

Skills

- Computer vision
- Unity rendering
- Deep learning
- Amazon Web Service (AWS)
- Mobile app development (iOS & Android)
- Web development

Programming languages & software

- C/C++, Python, JAVA, NodeJS, Objective-C, C#, PHP, HTML/CSS, Matlab, Unity

Work Experience

Software engineer — Dec 2017 - present
Employer: Pinscreen Inc.
- Server side unity rendering and offline rendering
- backend (AWS) management
- Face tracker training (deep learning) and training data prepare

Mobile App (VFE) - iOS — May 2017 - Dec 2017
Employer: College of Health Sciences, University of Kentucky
- **VFE** is an app that help individuals with voice disorders do exercises at home and improve their voice functions. This app will be used by patients in UK clinical voice center.
- **Role**: Design and implement the App from scratch, including the server part, database and web management portal.

Mobile App (eCROPS) - iOS & Android May 2016 - Dec 2016
Employer: Department of Community and Leadership Development, University of Kentucky

- **eCROPS** is short for electrical Cost-effective Roll-Over Protective Structures, which is an app that teaches high school students about truck safety. This app is used by thousands of students in 20+ high schools in 6 states.
- **Role**: Design and implement both iOS and Android version from scratch, including the server part, database and web management portal.

Software (KTDID) development May 2015 - Jul 2015
Employer: Kentucky Transportation Center (KTC)

Software (JTK) development Dec 2013 - Mar 2014
Employer: Department of Physiology, University of Kentucky

Academic Projects

Master project Jan 2017 - May 2017
University of Kentucky

- Thesis: 3D Body Tracking using Deep Learning
- Supervisor: Ruigang Yang

Mask-off: Synthesizing Face Images in the Presence of Head-mounted Displays Mar 2016 - Nov 2016

- Supervisor: Ruigang Yang

Littlehelper: Using Google Glass to Assist Individuals with Autism in Job Interviews Jan 2015 - May 2015

- Supervisor: Sen-ching Samson Cheung

AWARDS

Teaching Assistant Sep 2016 - Dec 2016
Kentucky Opportunity Fellowship July 2015 - June 2016
Teaching Assistant Sep 2014 - June 2015
PEIK Tuition Scholarship Sep 2013 - June 2014

Publications

1. **Yajie Zhao, Qingguo Xu, Xinyu Huang, Ruigang Yang**. "Mask-off: Synthesizing Face Images in the Presence of Head-mounted Displays." 2019 IEEE Conference on Virtual Reality and 3D User Interfaces (VR).
2. **Qingguo Xu, Sen-ching Samson Cheung**, et al. "Littlehelper: An Augmented Reality Glass Application to Assist Individuals with Autism in Job Interview". Asia Pacific Signal and Information Processing Association (APSIPA), December 2015
3. **Pengfei Zheng, Qingguo Xu, Yong Qi**. "An Advanced Methodology for Measuring and characterizing Software Aging". International Workshop on Software Aging and Rejuvenation (WoSAR), 2012