

Qingguo Xu

CONTACT INFORMATION	6515 W 87th St. Los Angeles, CA 90045	626-491-5239 qingguo.xu88@gmail.com https://qingguo-xu.com
---------------------	--	---

WORK EXPERIENCE	<p>Pinscreen Inc. Dec 2017 - present</p> <p>As a software engineer in Pinscreen, I did many projects, related to both research and engineering. More details are on my website.</p> <ul style="list-style-type: none">• Mobile app development (iOS & Android)• Unity rendering (server side & offline rendering)• Setup auto scale function for server management on Amazon Web Services (AWS)• Built up Pinscreen's deep learning database: 2D face images & landmarks for face tracking; 3D face geometries, textures, landmarks for better face fitting and texture prediction• Normalized Avatar Synthesis Using StyleGAN and Perceptual Refinement• Generated Pinscreen's most Deepfake projects results, some released ones are on my website• WebRTC streaming
-----------------	---

University of Kentucky

I did some research work and developed several apps for different departments (labs) in University of Kentucky before graduation. For VFE (iOS) and eCROPS (iOS & Android), I developed the mobile apps, set up servers and databases all by myself. I implemented KTDID with C# and JTK with Matlab.

- **Master thesis**: 3D Body Tracking using Deep Learning
- **Mask-off**: Synthesizing Face Images in the Presence of Head-mounted Displays
- **Littlehelper**: Using Google Glass to Assist Individuals with Autism in Job Interviews
- **VFE** is short for Voice Function Exercise and it's an iOS app that help individuals with voice disorders do exercises at home and improve their voice functions. This app is used by patients in UK clinical voice center.
- **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.
- **KTDID** is a windows software that used by Kentucky Transportation Center (KTC)
- **JFK** is a windows software that used by Department of Physiology, University of Kentucky

SKILLS	<ul style="list-style-type: none">• Programming languages: C/C++, Python, Java, Matlab, NodeJS, Objective-C, C#, PHP, HTML/CSS• 3D softwares: Unity, Unreal, Maya, Wrap3• Computer vision• Deep learning• Amazon Web Service (AWS)• Mobile app development (iOS & Android)• WebRTC streaming• Nuke vfx composition• Web development
--------	---

EDUCATION	Master, Computer Science University of Kentucky <ul style="list-style-type: none"> • Thesis Topic: 3D Body Tracking using Deep Learning • Advisors: Ruigang Yang 	Sep 2015 - May 2017
	PEIK program, Electrical and Computer Engineering University of Kentucky <ul style="list-style-type: none"> • Power and Energy Institute of Kentucky (PEIK) certification 	Sep 2013 - May 2015
	Visiting student Institute of Computing Technology Chinese Academy of Sciences <ul style="list-style-type: none"> • Advisors: Jianfeng Zhan • Topic: Software aging 	May 2012 - May 2013
	Master candidate, Computer Science Xi'an Jiaotong University <ul style="list-style-type: none"> • Advisors: Yong Qi • Topic: Software aging 	Sep 2011 - 2012 May
	Bachelor, Computer Science Xi'an Jiaotong University	Sep 2007 - May 2011
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	<ol style="list-style-type: none"> 1. Huiwen Luo, Koki Nagano, Hanwei Kung, Qingguo Xu, Zejian Wang et al. "Normalized Avatar Synthesis Using StyleGAN and Perceptual Refinement" 2021 IEEE Conference on Computer Vision and Pattern Recognition (CVPR). 2. Yajie Zhao, Qingguo Xu, Weikai Chen, Chao Du, Jun Xing, 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). 3. 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 4. Pengfei Zheng, Qingguo Xu, Yong Qi. "An Advanced Methodology for Measuring and characterizing Software Aging". International Workshop on Software Aging and Rejuvenation (WoSAR), 2012 	