

朱胤恒 YINHENG ZHU

✉ zhuyh19@mails.tsinghua.edu.cn · 🌐 cow8 · 🌐 zyh.science

EDUCATION

Tsinghua University , Beijing , China <i>Ph.D.</i> in Precision Medicine	2020 – Present
Tsinghua University , Beijing , China <i>M.S.</i> in Data Science	2019 – 2020
Xiamen University , Xiamen, China <i>B.E.</i> in Cognitive Science, Graduated with Honor <i>B.S.</i> in Mathematical Statistic(Minor)	2015 – 2019

RESEARCH

Tsinghua-Berkeley Shenzhen Institute Shenzhen, China <i>Research Assistant</i> Supervisor: Prof. Lu FANG ¹	
Live Semantic 3D Perception for Immersive Augmented Reality	2019.5 – 2019.9
<ul style="list-style-type: none">• Make it efficient enough for AR application in mobile device via sparse data structure.• Paper accepted by IEEE VR 2020, Journal Track TVCG[pdf].	
Reference based super-resolution	2018.9 – 2019.5
<ul style="list-style-type: none">• Exploring effect of various supervision signals, e.g. landmark, warping, in flow estimation and synthesis.• Paper accepted by TPAMI[pdf].	
SenseTime Research Shenzhen, China <i>Research Intern</i> Supervisor: Dr. Qiong YAN ²	2018.6 – 2018.9
Neural network quantization for mobile device	
<ul style="list-style-type: none">• Target: Improve inference speed of network in integer-only DSP unit for image enhancement.• Programming quantized linear interpolation that further improving the speed without loss on performance.	
University of California, Irvine CA, U.S. <i>Research Assistant</i> Supervisor: Prof. Harris ³	2017.6 – 2017.9
A Digital Micro Screen for the Enhanced Appearance of Ocular Prosthetic Eye Motility	

PROJECTS

Tsinghua-Berkeley Shenzhen Institute Shenzhen, China	
Early Assessment of Covid-19 Severity	2020.2 – 2020.5
<ul style="list-style-type: none">• We provide an easy-to-use [tool] for Early Assessment of Covid-19 Severity, [code and dataset].• The study identifies key bio-marker related to severity progression, and accepted by Patterns, Cell Press.	
Human Behaviour Analysis Dataset	2019.9 – 2019.12
<ul style="list-style-type: none">• Graph Neural Network for pedestrians group detection.• Paper accepted by CVPR 2020 [pdf].	

¹<http://www.luvision.net/>

²<http://www.yan-qiong.com/>

³<http://www.ics.uci.edu/harris/>

SERVICE

<i>GPU Cluster Administer</i>	2019.12 - Present
<i>Teaching Assistant</i> in Computational Photography Course	2020 Spring
<i>Teaching Assistant</i> in Digital Image Processing Course	2020 Fall

HONORS AND AWARDS

National Scholarship(0.2%)	2017
<i>National 2nd Prize</i> , Award on National Artificial Intelligence Design Competition	2017
<i>Meritorious Winner</i> , Award on Interdisciplinary Contest In Modeling	2017
<i>Regional 3rd Prize</i> , Award on China-US Young Maker Competition	2016