

朱胤恒 YINHENG ZHU

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EDUCATION

Tsinghua University, Shenzhen, China 2019 – 2021

M.S. in Data Science and Information Technology

Xiamen University, Xiamen, China 2015 – 2019

B.E. in Cognitive Science, Graduated with Honor

B.S. in Mathematical Statistic(Minor)

GPA:3.7/4(top 1%)

RESEARCH

Tsinghua-Berkeley Shenzhen Institute Shenzhen, China 2019.5 – Present

Research Assistant Supervisor: Prof. Lu FANG¹

Live Semantic 3D Perception for Immersive Augmented Reality(**IEEE VR 2020, Journal Track TVCG**)

- First accuracy in Stanford 3D dataset and make it efficient enough for mobile device.

Tsinghua-Berkeley Shenzhen Institute Shenzhen, China 2018.9 – 2019.5

Research Assistant Supervisor: Prof. Lu FANG¹

Reference based super-resolution

- Exploring effect of various supervision signals, e.g. landmark, warp, in image flow estimation and image synthesis task.

SenseTime Research Shenzhen, China 2018.6 – 2018.9

Research Intern Supervisor: Dr. Qiong YAN²

Neural network quantization for mobile device

- **Target:** Improve inference speed of network in integer-only DSP unit for image argumentation.
- Programming quantized linear interpolation that further improving the speed without loss on performance.

Media Analytics and Computing Lab in Xiamen University Xiamen, China 2017.9 – 2018.6

Research Assistant Supervisor: Prof. Rongrong JI³, Dr. Shaohui LIN⁴

Neural network quantization

- **Network Quantization:** Using low-bit fix-point representation for it's acceleration and compression.
- Wrote a note about the mistake found in a NIPS paper [pdf]

University of California, Irvine CA, U.S. 2017.6 – 2017.9

Research Assistant Supervisor: Prof. Harris⁵

Accurate pupil tracking in the wild

- **Target:** Tracking pupil center in the head mounted near infrared image sequence for gaze estimation or other perceptual researches.
- Our method achieved state-of-art in accuracy. [pdf]

¹<http://www.luvision.net/>

²<http://www.yan-qiong.com/>

³<http://mac.xmu.edu.cn/r/rji-en.html>

⁴<https://sites.google.com/site/shaohuilin007/home>

⁵<http://www.ics.uci.edu/harris/>

HONORS AND AWARDS

National Scholarship(0.2%), Lotus Foundation Scholarship(1%), Dean's Honor List(5%)	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

i MISCELLANEOUS

- There are some projects are hosted on GitHub: <https://github.com/cow8>