

# Qunliang Xing

ryanxingql@gmail.com

<https://ryanxingql.github.io>

## Biography

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Qunliang Xing is a Ph.D. student at Beihang University, advised by Changjiang Distinguished Professor Mai Xu. He obtained his BEng and Honors degrees at Beihang University in 2019. His research interests include image/video enhancement and coding. He has published several papers in IEEE TPAMI and ECCV, and one of them is top 1% highly cited according to the Essential Science Indicators (ESI). His papers have received over 350 citations. He has won two NTIRE championships. His open-source projects have received more than 700 stars. He was selected for the Tencent Rhino-bird Open-source Training Program. He is awarded the OpenMMLab Active Contributor. He serves as a reviewer for five IEEE transactions and conferences. He also excels in sports, having won second place in the Beihang 100m final and the Beihang soccer championship as the school team captain twice.

## Education

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<b>Beihang University</b>	2019.9 – Present
Ph.D. student	School of Electronics and Information Engineering
Honors Ph.D. Student	Shen Yuan Honors College
<b>Beihang University</b>	2015.9 – 2019.7
Bachelor of Engineering	School of Electronics and Information Engineering
Honors Bachelor	Shen Yuan Honors College

## Publications

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- [1] DAQE: Enhancing the Quality of Compressed Images by Exploiting the Inherent Characteristic of Defocus  
Qunliang Xing, Mai Xu, Xin Deng, Yichen Guo  
IEEE TPAMI 2023
- [2] Progressive Training of a Two-stage Framework for Video Restoration  
Qunliang Xing, Meisong Zheng, Minglang Qiao, Mai Xu, Lai Jiang, Huaida Liu, Ying Chen  
NTIRE @ CVPR 2022  
Winning method in the NTIRE challenge.
- [3] DeepQTMT: A Deep Learning Approach for Fast QTMT-based CU Partition of Intra-mode VVC  
Tianyi Li, Mai Xu, Runzhi Tang, Ying Chen, Qunliang Xing  
IEEE TIP 2021
- [4] Early Exit or Not: Resource-efficient Blind Quality Enhancement for Compressed Images  
Qunliang Xing, Mai Xu, Tianyi Li, Zhenyu Guan  
ECCV 2020
- [5] MFQE 2.0: A New Approach for Multi-frame Quality Enhancement on Compressed Video  
Qunliang Xing, Zhenyu Guan, Mai Xu, Ren Yang, Tie Liu, Zulin Wang  
IEEE TPAMI 2019  
ESI highly cited paper (Top 1%).

## Work Experience

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<b>Research Intern on Video Quality Enhancement</b> Tao Technology, Alibaba Group	2021.12 – Present
<b>Tencent Rhino-bird Open-source Training Program</b> Tencent Open Source	2021.7 – 2021.9
<b>Reviewer</b> IEEE TIP/TMM/TCSVT/JAS/ICME	2021.2 – Present
<b>Research Intern on Video Quality Enhancement for HW265 Codec</b> 2012 Lab, Huawei	2018.12 – 2019.12

## Honors and Awards

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<b>China National Scholarship</b> Ministry of Education	2023 Top 0.2% nationwide
<b>Beihang Excellent Academic Fund for Ph.D. Candidates</b> Beihang University	2023 Ranked 1st in the college
<b>Glarun Scholarship</b> The 14TH Research Institute, CETC	2022 Among the 4 awardees in the college
<b>Winner of the NTIRE Challenge on Video Quality Enhancement</b> NTIRE Challenge @ CVPR	2022 Ranked 1st among the 8 finalists
<b>Beihang Excellent Graduate</b> Beihang University	2019 Top 20% in the university
<b>Beihang Outstanding/Merit Student</b> Beihang University	2015/18/21/22 Top 5% in the university
<b>Shenzhen Merit Student</b> Education Bureau of Shenzhen Municipality	2014 Sole awardee in the school