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## EDUCATION

**Nanyang Technological University, Singapore** *Ph.D. Candidate* Aug 2021 - Aug 2024 (Expected)  
Supervisor: Prof. Weisi Lin (NTU), Dr. Qiong Yan & Dr. Wenxiu Sun (SenseTime)  
Research Topic: Explainable and Robust Image and Video Quality Assessment

**Peking University, Beijing, China** *Bachelor of Science* Sep 2017 - June 2021  
Supervisor: Assoc. Prof. Tingting Jiang (PKU)

## PUBLICATIONS AS FIRST AUTHOR

(c4) **Towards Explainable In-the-Wild Video Quality Assessment: a Database and a Language-Prompted Approach**  
in *Proceedings of ACM International Conference on Multimedia (ACMMM)* 2023  
Haoning Wu\*, Erli Zhang\*, Liang Liao, Chaofeng Chen, Jingwen Hou, Annan Wang, Wenxiu Sun, Qiong Yan, Weisi Lin  
Code&Database: [github.com/VQAssessment/MaxVQA](https://github.com/VQAssessment/MaxVQA), Preprint: [arxiv.org/abs/2305.12726](https://arxiv.org/abs/2305.12726)

(c3) **Exploring Video Quality Assessment of User Generated Contents from Aesthetic and Technical Perspectives**  
Haoning Wu\*, Erli Zhang\*, Liang Liao\*, Chaofeng Chen, Jingwen Hou, Annan Wang, Wenxiu Sun, Qiong Yan, Weisi Lin  
in *Proceedings of IEEE International Conference on Computer and Vision (ICCV)* 2023  
Code: [github.com/VQAssessment/DOVER](https://github.com/VQAssessment/DOVER)<sup>98\*</sup>, Preprint: [arxiv.org/abs/2211.04894v3](https://arxiv.org/abs/2211.04894v3)

(j3\*) **Towards Robust Text-Prompted Semantic Criterion for In-the-Wild Video Quality Assessment** (Ext. Journal)  
under review for *IEEE Transactions on Image Processing*  
Haoning Wu, Liang Liao, Annan Wang, Chaofeng Chen, Jingwen Hou, Wenxiu Sun, Qiong Yan, Weisi Lin

(c2) **Exploring Opinion-unaware Video Quality Assessment with Semantic Affinity Criterion** (Oral, Conference Ver.)  
in *Proceedings of IEEE International Conference on Multimedia and Expo (ICME)* 2023  
Haoning Wu, Liang Liao, Jingwen Hou, Chaofeng Chen, Erli Zhang, Annan Wang, Wenxiu Sun, Qiong Yan, Weisi Lin  
Code: [github.com/VQAssessment/BVQI](https://github.com/VQAssessment/BVQI), ICME: [arxiv.org/abs/2302.13269](https://arxiv.org/abs/2302.13269), Extension: [arxiv.org/abs/2304.14672](https://arxiv.org/abs/2304.14672)

(j2) **Neighbourhood Representative Sampling for Efficient End-to-end Video Quality Assessment** (Ext. Journal)  
*IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI, IF: 23.6)*  
Haoning Wu, Chaofeng Chen, Liang Liao, Jingwen Hou, Wenxiu Sun, Qiong Yan, Jinwei Gu, Weisi Lin

(c1) **FAST-VQA: Efficient End-to-End Video Quality Assessment via Fragment Sampling** (Conference Ver.)  
in *Proceedings of European Conference on Computer Vision (ECCV)* 2022  
Haoning Wu, Chaofeng Chen, Jingwen Hou, Liang Liao, Annan Wang, Wenxiu Sun, Qiong Yan, Weisi Lin  
Code: [github.com/teowu/fast-vqa](https://github.com/teowu/fast-vqa)<sup>160\*</sup>, ECCV: [arxiv.org/abs/2207.02595](https://arxiv.org/abs/2207.02595), Extension: [arxiv.org/abs/2210.05357](https://arxiv.org/abs/2210.05357)

(j1) **DisCoVQA: Temporal Distortion-Content Transformers for Video Quality Assessment** (Journal)  
*IEEE Transactions on Circuits and Systems for Video Technology (TCSVT, IF: 8.4)*  
Haoning Wu, Chaofeng Chen, Liang Liao, Jingwen Hou, Wenxiu Sun, Qiong Yan, Weisi Lin  
Code: [github.com/VQAssessment/DisCoVQA](https://github.com/VQAssessment/DisCoVQA), Preprint: [arxiv.org/abs/2206.09853](https://arxiv.org/abs/2206.09853)

## PUBLICATIONS AS MAIN CONTRIBUTING AUTHORS

(j5)<sup>3rd</sup> **AGIQA-3K: An Open Database for AI-Generated Image Quality Assessment**, in *TCSVT*, 2023

(j4)<sup>4th</sup> **Towards Transparent Deep Image Aesthetics Assessment with Tag-based Content Descriptors**, in *TIP*, 2023

(c5)<sup>3rd</sup> **Exploring the effectiveness of video perceptual representation in blind video quality assessment**, in *ACMMM*, 2022

## INDUSTRIAL EXPERIENCES

**TikTok, Singapore** *Machine Learning Intern, Multi-modality Large Language Models (MLLMs)* May 2023 - Aug 2023

**SenseTime Research, Beijing, China** *Research Intern, Portrait Image Quality Assessment* Jan 2022 - July 2022

**Megvii Technologies, Beijing, China** *Research Intern, Image Restoration* July 2020 - Apr 2021