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## EDUCATION

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**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 Video Quality Assessment

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

## PUBLICATIONS

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*j: journal paper, j\*: journal paper, under review, c: conference paper*

(c5) **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)

(c4) **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>92\*</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

(c3) **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)  
*under Major Revision for IEEE Transactions on Pattern Analysis and Machine Intelligence*

**Haoning Wu**, Chaofeng Chen, Liang Liao, Jingwen Hou, Wenxiu Sun, Qiong Yan, Jinwei Gu, Weisi Lin

(c2) **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>148\*</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)

(c1) **Exploring the Effectiveness of Video Perceptual Representation in Blind Video Quality Assessment** (Oral)  
*in Proceedings of ACM International Conference on Multimedia (ACMMM) 2022*

Liang Liao, Kangmin Xu, **Haoning Wu**, Chaofeng Chen, Wenxiu Sun, Qiong Yan, Weisi Lin

## INDUSTRIAL EXPERIENCES

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**TikTok, Singapore** *Machine Learning Intern, Visual Large Language Model* May 2023 - Aug 2023 (Expected)

**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