Chunyi Li

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EDUCATION BACKGROUND

The Experimental High School Attached to Beijing Normal University   Sep.2013-Jun.2019
Studying in the math competition class, devoted to math competition for nearly 6 years.

- First prize of National High School Mathematics League in Beijing

Shanghai Jiao Tong University, Information Engineering   Sep.2019-Jun.2023
Score:89.08 (35/152)   Comprehensive Assessment: 90.13(14/152)

Outstanding Undergraduate Student & Outstanding Undergraduate Thesis of SJTU

- Panasonic Scholarship (5k, 5%)   B-level Scholarship (1k, 10%)   Zhanjiajun Scholarship (1.5w)
- First prize of National College Mathematical Competition in Shanghai   Zhangxu Fellow Scholarship(1w)

National University of Singapore, Computer Science   Aug.2022-Dec.2022
Selected in the SJTU-NUS semester NGNE program (4/20), conducting research in the school of computing. Focus on real-time video quality assessment and HTTP adaptive streaming.

SCIENTIFIC RESEARCH

Cooperative Media-net Innovation Center | AI-Generated content   Mar.2023-Now
Exploring the generation or quality model of AI-Generated Images (AGIs) to optimize the human perceptual experience in the AIGC service. Constructed the first perceptual quality database 'AGIQA-1k' and the evolved version 'AGIQA-3k'.

- **Chunyi Li,** Zicheng Zhang, Haoning Wu, Guangtao Zhai, and Weisi Lin. Perceptual Quality Assessment on AI-Generated Images. IEEE TCSVT. 2023. **(on review)**
- Zicheng Zhang*, **Chunyi Li***, Wei Sun, Xiaohong Liu, Xiongkuo Min, and Guangtao Zhai. A Perceptual Quality Assessment Exploration for AIGC Images. Arxiv. 2023. (**700+ Read**)

NUS Media Management Research Lab | Quality of Experience   Aug.2022-Now
Objectively evaluate the Quality of Experience (QoE) for visual communication system through Image/Video Quality Assessment (IQA/VQA) metrics. Analyze streaming QoE and proposed a low-latency, high-accuracy quality model. A CCF-B conference paper has been accepted.

- **Chunyi Li,** May Lim, Abdelhak Bentalab, and Roger Zimmermann. A Real-Time Blind QoE Assessment Metric for HTTP Adaptive Streaming. **IEEE International Conference on Multimedia & Expo**. 2023.
- Xinhui Huang*, **Chunyi Li*,** Abdelhak Bentalab, Roger Zimmermann, and Guangtao Zhai. XGC-VQA: A Unified VQA Model for User Professionally and Occupationally Generated Content. Arxiv. 2023.

Cooperative Media-net Innovation Center | Image Quality Assessment   Mar.2022-Now
Learning how to extract features from images, videos, point clouds, and point flow based on the human visual system (HVS) interest.

- **Chunyi Li,** Zicheng Zhang, Wei Sun, Xiongkuo Min, and Guangtao Zhai. A Full-Reference Quality Assessment Metric for Cartoon Images. IEEE Workshop on Multimedia Signal Processing. 2022. **(oral)**

Cooperative Media-net Innovation Center | Multimedia and 5G Broadcasting   Feb.2021-Now
Participating in the research about Aliasing-Elimination CHE algorithm/Cell Acquisition Structure (CAS) reception in 3GPP standard, improves the overall robustness of the 5G broadcast receiver.

- **Chunyi Li**, Haoyang Li, Ning Yang, and Dazhi He. A PBCH Reception Algorithm in 5G Broadcasting. IEEE International Symposium on Broadband Multimedia Systems and Broadcasting. 2022. **(oral)**

- Haoyang Li, Dazhi He, **Chunyi Li**, et al. Elimination Channel Estimation for CAS Reception. IEEE Transactions on Broadcasting. 2021.

PROJECTS

National University Internet of Things (IoT) Designing Competition Grand Prize 2022
Designed the "Harclass" project funded by Huawei, a smart classroom based on Harmony OS, OpenHarmony demo board, and Huawei Cloud. Using distributed network, support Huawei mobile phones, smart wearables, TVs, and other Harmony OS devices to achieve real-time classroom interaction. The above classroom information and the environmental information collected by OpenHarmony are uploaded to the cloud. This project won the National First Prize and the **Harmony OS Grand Prize** (1/1400+), which was highly evaluated by Huawei and invited to give a report at their Developer Conference.

The Mathematical Contest in Modeling Meritorious 2021
Planned drone routes, built mathematical models to cover all the fire risk areas in Australia, and calculated the minimum requirement for the number of drones/base stations.

Beijing Dayang Co., Ltd. Information Technology Group Internship 2020
Trained an Optical Character Recognition (OCR) text recognition model, introduced a variety of data enhancement techniques to improve the accuracy of the model's recognition of oblique text.

OTHER SKILLS

Tools: c, c++, MATLAB, python, latex Language: Chinese & English CET-6: 562

Social work: Shanghai International Marathon volunteer, investigation on Poverty Alleviation in Guangxi Province

Art: Chamber group member in Shanghai Jiao Tong University choir, music minister in school musical club