

KONG CHENQI

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BACKGROUND HIGHLIGHTS

I am a fourth-year Ph.D. candidate in the Department of Computer Science at City University of Hong Kong, under the supervision of Prof. WANG Shiqi. My research interests mainly focus on multimedia forensics and AI security. Throughout my Ph.D., I have authored six papers, including two papers published in *IEEE Transactions on Information Security and Forensics* and one paper published in *IEEE Transactions on Circuits and Systems for Video Technology*. I have also co-authored some top-tier journals and conferences, such as *IEEE TIP* and *ICML*. Currently, I am on a visiting program at the ROSE Lab, NTU, where I am working on image manipulation detection and localization under the supervision of Prof. Alex C. Kot. I achieved a CGPA of 4.00/4.30 during my Ph.D., and my GPA ranked 3rd among all 143 students in my graduate study. My academic excellence was recognized with numerous scholarships, including National Scholarship and Research Tuition Scholarship.

EDUCATION

Visiting Scholar at ROSE Lab

Jan 2023-present

Nanyang Technological University (NTU), Singapore

Supervisor: Prof. Alex Chichung Kot.

Ph.D. Candidate in Computer Science

Aug 2019-present

City University of Hong Kong (CityU), Hong Kong, China

GPA: 4.00/4.30. Supervisor: A. Prof. WANG Shiqi.

M.S. in Electrical Engineering & Automation

Sep 2017-Jul 2019

Harbin Institute of Technology (HIT), Harbin, China

GPA ranking: 3/143. Supervisor: Prof. LIU Jian.

B.S. in Photoelectric Information Science & Engineering

Sep 2013- Jul 2017

Harbin Institute of Technology (HIT), Harbin, China

GPA ranking: 8/74. Supervisor: A. Prof. SHI Hongyan.

PUBLICATIONS

Journals & Conferences

Chenqi Kong, Kexin Zheng, Shiqi Wang, Anderson Rocha, and Haoliang Li. “Beyond the Pixel World: A Novel Acoustic-based Face Anti-Spoofing System for Smartphones,” *IEEE Transactions on Information Security and Forensics* (TIFS), 2022.

Chenqi Kong, Baoliang Chen, Haoliang Li, Shiqi Wang, Anderson Rocha, Sam Kwong. “Detect and Locate: Exposing Face Manipulation by Semantic and Noise-level Telltales,” *IEEE Transactions on Information Security and Forensics* (TIFS), 2022.

Chenqi Kong, Baoliang Chen, Wenhan Yang, Haoliang Li, Peilin Chen & Shiqi Wang. “Appearance Matters, So Does Audio: Revealing the Hidden Face via Cross-Modality Transfer,” *IEEE Transactions on Circuits and Systems for Video Technology* (TCSVT), 2021.

Chenqi Kong, Kexin Zheng, Yibing Liu, Shiqi Wang, Anderson Rocha, and Haoliang Li. “M3FAS: An Accurate and Robust MultiModal Mobile Face Anti-Spoofing System,” *arXiv:2301.12831*. Submitted to *IEEE Transactions on Dependable and Secure Computing* (TDSC), 2023.

Chenqi Kong, Shiqi Wang, and Haoliang Li. “Digital and Physical Face Attacks: Reviewing and One Step Further,” Accepted to *APSIPA Transactions on Signal and Information Processing*, 2022.

Chenqi Kong, Haoliang Li, and Shiqi Wang. “Enhancing General Face Forgery Detection via Vision Transformer with Low-Rank Adaptation,” *arXiv:2303.00917*, 2023.

Jiaxing Li, **Chenqi Kong**, Shiqi Wang, and Haoliang Li. “Two-branch Multi-scale Deep Neural Network for Generalized Document Recapture Attack Detection,” Accepted to *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2023.

Jian Liu, **Chenqi Kong**, Qiang Li, Weisong Zhao, Mengzhou Li, Shan Gao, Chenguang Liu, Jiubin Tan. “Artifact-free, penetration-adjustable elliptical-mirror-based TIRF microscopy,” *Optics Express (OE)*, 2018.

Baoliang Chen, Lingyu Zhu, **Chenqi Kong**, Hanwei Zhu, Shiqi Wang, and Li Zhu. “No-Reference Image Quality Assessment by Hallucinating Pristine Features,” *IEEE Transactions on Image Processing (TIP)*, 2022.

Yibing Liu, Haoliang Li, Yangyang Guo, **Chenqi Kong**, Jing Li, and Shiqi Wang. “Rethinking Attention-Model Explainability through Faithfulness Violation Test,” *International Conference on Machine Learning (ICML)*, 2022.

Jian Liu, Weisong Zhao, Chenguang Liu, **Chenqi Kong**, Yixuan Zhao, Xumin Ding, Jiubin Tan. “Accurate aberration correction in confocal microscopy based on modal sensorless method,” *Review of Scientific Instruments*, 2019.

Patents

Chenqi Kong, Haoliang Li, Shiqi Wang, Kexin Zheng. Echo-FAS: A Novel Acoustic-based Face Anti-Spoofing System for Smartphones, 2022.

Baoliang Chen, **Chenqi Kong**, Haoliang Li, Shiqi Wang. A More General And Robust Face Manipulation Detection Approach via Noise Modeling, 2022.

SELECTED HONORS AND AWARDS

National Scholarship. Ministry of Education of the People’s Republic of China, 2018.

Research Tuition Scholarship (RTS). Chow Yei Ching School of Graduate Studies, City University of Hong Kong, 2021.

Outstanding Academic Performance Award (OAPA). Chow Yei Ching School of Graduate Studies, City University of Hong Kong, 2021, 2022.

National Encouragement Scholarship, Ministry of Education of the People’s Republic of China, 2016.

First-Class People’s Scholarship, HIT, (2014, 2015, 2016, 2017, 2018).

Merit student of Harbin Institute of Technology, HIT, (2016, 2017).

PROFESSIONAL SERVICES

Reviewer for IEEE Transactions on Information Forensics and Security (TIFS)

Reviewer for IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)

Reviewer for IEEE Transactions on Multimedia (TMM)

Reviewer for IEEE International Conference on Multimedia and Expo (ICME)

Reviewer for IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)

TEACHING ASSISTANT

Introduction to Computer Studies, CS1102, City University of Hong Kong.
Computer Programming, CS2313, City University of Hong Kong.
Computer Vision and Image Processing, CS4186, City University of Hong Kong.
Vision and Image, CS5187, City University of Hong Kong.

MISCELLANEOUS

Selected Courses

Machine Learning, Vision and Image, Computer Graphics, Research in Computer Science.

Programming Skills

Python, Pytorch, Tensorflow, Matlab, C, Zemax.