

Jiaying Lin

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SUMMARY

My research focuses on exploring **new, practical, and essential** problems in deep learning, computer vision, and computer graphics. During my Ph.D. studies, I am working on building robust and/or multimodal vision applications, such as detecting inconspicuous objects (e.g., mirrors, glass, and camouflaged objects) and 3D vision with imperfect or multi-modal data.

EDUCATION

City University of Hong Kong, Hong Kong

▪ Ph.D. student in Computer Science

Sep 2019 – Present

South China University of Technology, Guangzhou, China

▪ B.Eng. in Computer Science and Technology (Elite Program, **Top 0.4%**)

Sep 2015 – Jul 2019

SELECTED PUBLICATIONS

JOURNALS

- [1] *Mirror Detection with the Visual Chirality Cue*

Xin Tan, **Jiaying Lin**, Ke Xu, Pan Chen, Lizhuang Ma, Rynson W.H. Lau.

IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2022.

- [2] *Frequency-aware Camouflaged Object Detection*

Jiaying Lin, Xin Tan, Ke Xu, Lizhuang Ma, Rynson W.H. Lau.

ACM Trans. on Multimedia Computing Communications and Applications (**TOMM**), 2022.

CONFERENCE

- [1] *Exploiting Semantic Relations for Glass Surface Detection*

Jiaying Lin*, Yuen-Hei Yeung* and Rynson W.H. Lau

Thirty-Sixth Conference on Neural Information Processing Systems (**NeurIPS**), 2022.

- [2] *Learning Semantic Associations for Mirror Detection*

Huankang Guan, **Jiaying Lin**, and Rynson W.H. Lau

IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022.

- [3] *Rich Context Aggregation with Reflection Prior for Glass Surface Detection*

Jiaying Lin, Zebang He, and Rynson W.H. Lau

IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.

- [4] *Progressive Mirror Detection*

Jiaying Lin, Guodong Wang, and Rynson W.H. Lau

IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020.

- [5] *Coherence and Identity Learning for Arbitrary-length Face Video Generation*

Shuquan Ye, Chu Han, **Jiaying Lin**, Guoqiang Han, and Shengfeng He

International Conference on Pattern Recognition (**ICPR**), 2020

RESEARCH EXPERIENCE

Computer Vision Group, City University of Hong Kong

▪ Research Assistant

01 Sep 2019 – Present

CUHK Cyber-Physical Memory System Group, The Chinese University of Hong Kong

▪ Research Assistant

01 Feb 2019 – 01 May 2019

HKU Systems Software Group, The University of Hong Kong

▪ Research Assistant

15 Jul 2018 – 31 Oct 2018

SERVICES

Journal Reviewer: IJCV, TIP, TCSVT

Conference Reviewer: CVPR 2022, ECCV 2022, AAAI 2023

TEACHING

Introduction to Computer Studies (CS1102), Virtual Reality (CS4188/CS5188)

Machine Learning (CS4487), Multimedia Technologies and Applications (CS4185)

AWARDS & SCHOLARSHIPS

Research Tuition Scholarship, City University of Hong Kong (**Top 6%**, 21/344)

2022 – 2023

Postgraduate Studentship, City University of Hong Kong

2019 – 2023

Undergraduate Studentship, South China University of Technology

2015 – 2019

Elite Student Program, South China University of Technology (**Top 0.4%**)

2015 – 2019

LANGUAGES

English, Mandarin, Cantonese.