

林嘉应

✉ 邮箱: csjylin@gmail.com · ☎ (+86) 156-2629-8484 · 🏠 个人主页: <https://jiaying.link/>

♡ 个人简介

林嘉应, 1997 年生, 博士, 研究方向为深度学习、计算机视觉与计算机图形学, 尤其专注于探索数据驱动下的深度学习、计算机视觉和计算机图形学领域中的新颖的、实用的和关键性的问题。公开发表学术论文 14 篇, CCF A 类期刊或会议 11 篇, 其中第一或通讯作者论文 9 篇, 所著论文多次在相关顶级学术会议中被提名为口头报告 (Oral) 或焦点论文 (Spotlight)。

🎓 教育背景

香港城市大学, 博士, 计算机科学 (提前毕业) 2019.09 – 2023.05
华南理工大学, 学士, 计算机科学与技术 (全英联合班, 排名前 0.4%) 2015.09 – 2019.07

📖 学术论文

*: 并列, ☒: 通讯作者, #: 指导学生

- [1] Fang Liu[#], Yuhao Liu[#], **Jiaying Lin**[☒], Ke Xu, Rynson W.H. Lau. Multi-view Dynamic Reflection Prior for Video Glass Surface Detection. In *the Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI, CCF-A)*, 2024.
- [2] **Jiaying Lin**[☒], Rynson W.H. Lau. Self-supervised Pre-training for Mirror Detection. In *IEEE/CVF International Conference on Computer Vision (ICCV, CCF-A)*, 2023.
- [3] **Jiaying Lin**^{*}, Xin Tan^{*}, Rynson W.H. Lau. Learning to Detect Mirrors from Videos via Dual Correspondences. In *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR, CCF-A)*, 2023.
- [4] Ruozhen He[#], Qihua Dong[#], **Jiaying Lin**[☒], Rynson W.H. Lau. Weakly-Supervised Camouflaged Object Detection with Scribble Annotations. In *Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI, CCF-A)*, **Oral (10.9%)**, 2023.
- [5] Ruozhen He[#], **Jiaying Lin**[☒], Rynson W.H. Lau. Efficient Mirror Detection via Multi-level Heterogeneous Learning. In *Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI, CCF-A)*, **Oral (10.9%)**, 2023.
- [6] Tianyu Huang[#], Bowen Dong, **Jiaying Lin**, Xiaohui Liu, Rynson W.H. Lau, Wangmeng Zuo. Symmetry-Aware Transformer-based Mirror Detection. In *Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI, CCF-A)*, 2023.
- [7] **Jiaying Lin**^{*}, Yuen-Hei Yeung^{*#}, Rynson W.H. Lau. Exploiting Semantic Relations for Glass Surface Detection. In *Thirty-Sixth Conference on Neural Information Processing Systems (NeurIPS, CCF-A)*, **Spotlight (5.16%)**, 2022.
- [8] **Jiaying Lin**, Xin Tan, Ke Xu, Lizhuang Ma, Rynson W.H. Lau. Frequency-aware Camouflaged Object Detection. In *ACM Transactions on Multimedia Computing Communications and Applications (TOMM, JCR-Q1)*, 2022.
- [9] Xin Tan, **Jiaying Lin**, Ke Xu, Pan Chen, Lizhuang Ma, Rynson W.H. Lau. Mirror Detection with the Visual Chirality Cue. In *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI, CCF-A, JCR-Q1)*, 2022.
- [10] Huankang Guan[#], **Jiaying Lin**, Rynson W.H. Lau. Learning Semantic Associations for Mirror Detection. In *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR, CCF-A)*, 2022.
- [11] **Jiaying Lin**, Zebang He, Rynson W.H. Lau. Rich Context Aggregation with Reflection Prior for Glass Surface Detection. In *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR, CCF-A)*, 2021.
- [12] **Jiaying Lin**, Guodong Wang, Rynson W.H. Lau. Progressive Mirror Detection. In *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR, CCF-A)*, 2020.
- [13] Shuquan Ye, Chu Han, **Jiaying Lin**, Guoqiang Han, Shengfeng He. Coherence and Identity Learning for Arbitrary-length Face Video Generation. In *International Conference on Pattern Recognition (ICPR)*, 2020.

- [14] **Jiaying Lin**, Wei-Neng Chen, Jun Zhang. An Estimation of Distribution Algorithm for Large-Scale Optimization with Cooperative Co-evolution and Local Search. In *25th International Conference on Neural Information Processing (ICONIP)*, 2018.

📄 论文预印本

- [1] **Jiaying Lin**, Zebang He, Yuen-Hei Yeung, Rynson W.H. Lau. Reflection-aware Glass Surface Detection with Rich Context. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, CCF-A, JCR-Q1), in submission.
- [2] **Jiaying Lin***, Yuen-Hei Yeung*, Rynson W.H. Lau. Depth-aware Glass Surface Detection with Cross-modal Context Mining *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, CCF-A, JCR-Q1), in submission. *arXiv preprint arXiv:2206.11250*
- [3] **Jiaying Lin**, Huankang Guan, Rynson W.H. Lau. Rethinking Video Salient Object Ranking *International Journal of Computer Vision (IJCV)*, CCF-A, JCR-Q1), in submission. *arXiv preprint arXiv:2203.17257*

🌟 专利

- [1] 船舶名称识别方法、系统、计算机设备及存储介质, CN111582182B (已授权)

👤 工作/项目经历

计算机视觉研究组, 博士后 (研究人才库), 香港城市大学	2023.06 – 至今
内存和存储系统研究组, 研究助理, 香港中文大学	2019.02 – 2019.05
操作系统软件研究组, 学生研究助理, 香港大学	2018.07 – 2018.11

📖 教学课程

于香港城市大学共教授 14 门课程, 其中本科生课程 8 门:

- 计算机科学导论 (CS1102), 2019 学年第一学期
- 虚拟现实技术与应用 (CS4188), 2019、2020、2021、2022 学年第二学期
- 多媒体技术与应用 (CS4185), 2021、2022 学年第一学期
- 机器学习 (CS4487), 2020 学年第一学期

研究生课程 6 门:

- 虚拟现实技术与应用 (CS5188), 2019、2020、2021、2022 学年第二学期
- 多媒体技术与应用 (CS5185), 2021、2022 学年第一学期

👤 学术职务

期刊审稿人:

- International Journal of Computer Vision (IJCV)
- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)

会议委员会/审稿人: CVPR 2022, ECCV 2022, AAAI 2023, CVPR 2023, ICCV 2023, NeurIPS 2023, AAAI 2024

💖 获奖情况

旅行奖学金	CVPR 2023
学生奖学金	AAAI 2023
杰出审稿人	ECCV 2022
研究学费奖学金, 香港城市大学, (排名前 6%, 21/344)	2022 - 2023
博士全额奖学金, 香港城市大学	2019 - 2023
优秀奖学金, 华南理工大学	2016, 2017, 2018
全英联合班 (排名前 0.4%), 华南理工大学	2015 - 2019