

JIAZHEN LIU

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EDUCATION

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- Ph.D. Candidate at HKUST** Hong Kong, China 📍 📅 Sep 2024 ▶ Now
In CSE department, supervised by Prof. CHEN, Long; **GPA: 4.0/ 4.3**
- Master at Renmin University of China** Beijing, China 📍 📅 Sep 2021 ▶ Jun 2024
Major in Computer Application Technology; **GPA: 3.59 / 4**
- B.S. at Shandong University** Shandong, China 📍 📅 Sep 2017 ▶ Jun 2021
Major in Computer Science; **GPA: 4.68 / 5**

SELECTED PUBLICATIONS

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- Jiazhen Liu**, Yuhan Fu, Ruobing Xie, Runquan Xie, Xingwu Sun, Fengzong Lian, Zhanhui Kang, Xirong Li. **PhD: A ChatGPT-Prompted Visual Hallucination Evaluation Dataset**. CVPR, Highlight, 2025
 - A comprehensive study on the sources of visual hallucinations in MLLMs and targeted benchmark design.
 - 3 types of visual hallucination data: visual confusions, language biases, and knowledge contradictions.Code: <https://github.com/jiazhen-code/PhD>.
 - Jiazhen Liu**, X. Li. **Geometrized Transformer for Self-Supervised Homography Estimation**. ICCV, 2023
 - GeoFormer, a new detector-free feature matching method for homography estimation.
 - Using the classical RANSAC geometry for attentive region search.Code: <https://github.com/ruc-aimc-lab/GeoFormer>.
 - Jiazhen Liu**, Xirong Li, Qijie Wei, Jie Xu, Dayong Ding. **Semi-Supervised Keypoint Detector and Descriptor for Retinal Image Matching**. ECCV, 2022
 - SuperRetina, the first end-to-end method for RIM with jointly trainable keypoint detector and descriptor.
 - Enhance the keypoint labels during each training epoch, mitigating the limitations of manual labeling.Code: <https://github.com/ruc-aimc-lab/SuperRetina>.

INTERNSHIPS

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- Tencent · Beijing** 📍 📅 Feb 2023 ▶ Mar 2024
Hunyuan Large Model Pre-training Team (MLLM):
 - Participated in the development of a multimodal large language model (MLLM), contributing to Tencent's **Hunyuan** large model, which integrates both visual and textual information.
 - Addressing hallucination issues in MLLMs, with results published at CVPR.**Highlights:** Successfully conducted research and constructed a MLLM from scratch.
- ByteDance · Beijing** 📍 📅 Sep 2022 ▶ Mon 2023
Platform Governance Team (Computer Vision):
 - Designed a matching model for detecting image infringements in product images;
 - Conducted the research and ultimately translated it into a research paper.**Highlights:** By integrating job tasks with research content, we addressed business challenges and generated an ICCV paper.

AWARDS AND HONORS

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- Outstanding Master's Thesis Award of the Chinese Institute of Electronics 📅 Mar 2025
- National Scholarship (Graduate Students) 📅 Sep 2023
- National Scholarship (Undergraduate Students) for **three** consecutive years. 📅 Dec 2018 ▶ Dec 2020