

Yeying Jin

Singapore PR (Permanent Resident)

GitHub (1.5K+ Stars) | LinkedIn (2.1K+) | Xiaohongshu (17K+ Likes)

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Summary

Staff Researcher at Tencent IEG Singapore, leading **AIGC** for large-scale game content **generation**.

Led and deployed multiple first-in-industry **AIUGC** platforms serving 30K+ users and generating 2.1M+ creatives.

PhD (NUS, **AISG** Fellow) with **1.1K+ citations**, **13+ first/co-first papers** at CVPR/ICCV/ECCV/ICLR.

Led and mentored 10+ junior researchers and interns (4 on-site), enabling impactful outcomes.

Education

National University of Singapore (NUS)

Jan. 2020 – Jan. 2024

Singapore

AI Singapore (**AISG**) Ph.D. Fellowship, Focus: **AIGC**, GPA: 4.75 / 5.00

Advisor: Prof. Robby Tan (Chief Scientist at ASUS, Associate Professor)

National University of Singapore (NUS)

Aug. 2017 – Aug. 2018

Singapore

M.Sc., Major: Electrical and Computer Engineering

University of Electronic Science and Technology of China (UESTC)

Sep. 2013 – Jul. 2017

B.Eng., Major: Electronic Information Engineering, GPA: 3.93 / 4.00

Chengdu, China

Work Experience (4+ years)

Tencent, IEG Global, The Project Up Talent Programme

Singapore

Staff Researcher, Lead AIGC/MLLM/VLM research and deployment

Nov. 2023 – Present

Adobe Research, Creative Media Lab

Seattle, USA

Research Intern | Mentors: Prof. Connelly Barnes, Prof. Eli Shechtman

Jun. 2023 – Sep. 2023

Collaborators: Yuqian Zhou, Lingzhi Zhang, Sohrab Amirghodsi, Eric Kee

BioMind, Radiotherapy Team

Singapore

Researcher | Chief Scientist: Prof. Jiashi Feng

Jan. 2019 – Jan. 2020

Highlighted Projects (Lead of AIGC)

AIUGC Creator Studio: Multi-Style Hero Generation Platform, Tencent

Dec. 2024 – Present

0→1 AI Image Generation Platform for consumers

Singapore

- Released the **first text-to-image (T2I) and image-to-image (I2I)** online hero generation platform for Honor of Kings, built on an **SDXL-based** model, supporting 98 **hero LoRAs**, 12 styles, with 13s generation latency.
- Attracted **35K+** active users, generating **58K** AI images with a **22%** save rate.

AIUGC DIY Poster: The First In-game AI Poster Editor, Tencent

Jun. 2025 – Present

0→1 AI Poster Editor for consumers

Singapore

- Deployed the **first** AI poster editor for Honor of Kings, launching **3** AI filters (Portrait, Detective, Esports) across HOK Camp and **core in-game** scenarios (battle loading, hero panels, popups, system notifications), integrated **ControlNet** for pose control, **PuLID** for player identity consistency, and **Florence-2** for prompt parsing.
- Released the **first** AI-powered game cover generation for PUBG Mobile, integrating the **Flux.1-Kontext-dev** model and **ChatGPT + Florence-2** for prompt parsing, supporting **6** styles with 30s generation latency.
- Scaled the system to serve **22.5K** players, generating **2.1M** AI posters (avg. **9 per user**), with 80% in-game display rate, 99% positive sentiment, and thousands of mentions and discussions on Xiaohongshu.

AIPGC: The First Avatar & Sticker Campaign, Tencent

Jul. 2024 – Nov. 2024

0→1 AI Image Generation

Singapore

- Built the **first** global AI Avatar & Sticker campaign, executing **12** campaign launches featuring **98 heroes**, **2 unique styles** (cartoon and pixel-art), and **2 Halloween topics**.
- Achieved over **600K** exposure and **60K** engagements by expanding distribution across major global platforms including HOK Camp, X, Facebook, Instagram, TikTok, WhatsApp, VK, and Discord.

AIGC Pipeline for Ads Creative Production, Tencent

Nov. 2023 – Present

Mentored a team of 6, including 4 on-site interns and 2 full-time researchers

Singapore

- Deployed AI-powered UA and community creative pipelines for PUBG Mobile, Miniclip games, Honor of Kings, Poe2, and other games, achieving **5×** higher production **efficiency** than traditional video creation.
- Scaled the **AIGC ad creative generation** system to produce 200+ localized **video** assets monthly, powered by **Wan2.1/2.2, Wan-Animate**, enabling virtual streamer ads and AI-driven **video** style transfer.

Workshop & Challenge Organizer

1. **CVPR'26 LoViF Workshop**: The 1st Workshop on Low-Level Vision Frontiers with Generative AI, Preference Optimization, and Agentic Systems
2. **CVPR'26 URVIS Workshop**: Unified Robotic Vision with Cross-Modal Sensing and Alignment
3. **CVPR'26 Agentic AI Workshop**: Agentic AI for Visual Media
4. **AAAI'26 Workshop**: The Application of Generative AI and Intelligent Agents in Low-Level Vision
5. **CVPR'26 NTIRE**: The 2nd Challenge on Day & Night Raindrop Removal for Dual-Focused Images
6. **CVPR'25 NTIRE**: The 1st Challenge on Day & Night Raindrop Removal for Dual-Focused Images

Honors & Awards

- AI Singapore (**AISG**) Ph.D. Fellowship — Singapore's most prestigious national AI scholarship
- National Scholarship, Ministry of Education of China
- Best Paper Award, ADHIP 2024
- **Wan 2.1 Video Generation** Challenge — 2nd Place (“Yayoi Kusama × Wukong”), Alibaba ModelScope
- Tencent Awards: Knowledge, Excellence R&D, Outstanding Mentor, Outstanding Contribution

Publications (Google Scholar, First/co-first Papers: 13+, Citations: 1.1K+, GitHub: 1.5K+ Stars)

7+ First-Author Publications

ECCV'22 1. **Yeying Jin**, Wenhan Yang, Robby T. Tan. *Unsupervised Night Image Enhancement: When Layer Decomposition Meets Light-Effects Suppression*. **Citations: 220+**, GitHub Stars: 460+

ICCV'21 2. **Yeying Jin**, Aashish Sharma, Robby T. Tan. *DC-ShadowNet: Single-Image Hard and Soft Shadow Removal Using Unsupervised Domain-Classifier Guided Network*. **Citations: 210+**, GitHub Stars: 260+

ACMMM'23 3. **Yeying Jin**, Beibei Lin, Wending Yan, Yuan Yuan, Wei Ye, Robby T. Tan. *Enhancing Visibility in Nighttime Haze Images Using Guided APSF and Gradient Adaptive Convolution*. **Citations: 100+**, Stars: 180+

AAAI'24 4. **Yeying Jin**, Wei Ye, Wenhan Yang, Yuan Yuan, Robby T. Tan. *DeS3: Adaptive Attention-Driven Self and Soft Shadow Removal using ViT Similarity*. **Citations: 75+**

ECCV'24 5. **Yeying Jin**, Xin Li, Jiadong Wang, Yan Zhang, Malu Zhang. *Raindrop Clarity: A Dual-Focused Dataset for Day and Night Raindrop Removal*. **Citations: 20+**, GitHub Stars: 70+

AAAI'23 6. **Yeying Jin**, Ruoteng Li, Wenhan Yang, Robby T. Tan. *Estimating Reflectance Layer from A Single Image: Integrating Reflectance Guidance and Shadow/Specular Aware Learning*. **Citations: 40+**

ACCV'20 7. **Yeying Jin**, Wending Yan, Wenhan Yang, Robby T. Tan. *Structure Representation Network and Uncertainty Feedback Learning for Dense Non-Uniform Fog Removal*. **Citations: 70+**, GitHub Stars: 170+

6+ Co-First-Author Publications

AAAI'26 1. Wei Zhang, **Yeying Jin***, Xin Li, Yan Zhang, Xiaofeng Cong, Cong Wang, Fengcai Qiao. *UniFit: Towards Universal Virtual Try-on with MLLM-Guided Semantic Alignment*. Used in Tencent Project.

CVPR'25 2. Xin Li¹, **Yeying Jin***, ... *NTIRE 2025 Challenge on Day and Night Raindrop Removal for Dual-focused Images: Methods and Results*. **Citations: 30+**, GitHub Stars: 70+

AAAI'24 3. Beibei Lin* **Yeying Jin***, Wending Yan, Wei Ye, Yuan Yuan, Shunli Zhang, Robby T. Tan. *NightRain: Nighttime Video Deraining via Adaptive-Rain-Removal and Adaptive-Correction*. **Citations: 20+**.

AAAI'25 4. Beibei Lin*, **Yeying Jin***, Wending Yan, Wei Ye, Yuan Yuan, Robby T. Tan. *NightHaze: Nighttime Image Dehazing via Self-Prior-Learning*. **Citations: 20+**.

PR'25 5. Zhiying Li, **Yeying Jin***, ... *Unveiling Hidden Vulnerabilities in Digital Human Generation via Adversarial Attacks*.

ECCV'24 6. Tingting Chen*, Beibei Lin*, **Yeying Jin***, Wending Yan, Wei Ye, Yuan Yuan, Robby T. Tan. *Dual-Rain: Video Rain Removal using Assertive and Gentle Teachers*.

Co-Author Publications

CVPR'24 Bingchen Li, Xin Li, Hanxin Zhu, **Yeying Jin**, Ruoyu Feng, Zhizheng Zhang, Zhibo Chen. *SeD: Semantic-Aware Discriminator for Image Super-Resolution*. **Citations: 70+**, GitHub Stars: 160+

EMNLP'24 Songtao Jiang, Tuo Zheng, Yan Zhang, **Yeying Jin**, Zuozhu Liu. *Med-MoE: Mixture of Domain-Specific Experts for Lightweight Medical Vision-Language Models*. **Citations: 75+**, GitHub Stars: 150+

¹* indicates equal contribution

- ECCV'24** Xin Li, Bingchen Li, **Yeying Jin**, Cuiling Lan, Hanxin Zhu, Yulin Ren, Zhibo Chen. *UCIP: A Universal Framework for Compressed Image Super-Resolution using Dynamic Prompt*.
- CVPR'25** Yunlong Lin, ..., **Yeying Jin**, ..., Xinghao Ding. *JarvisIR: Elevating Autonomous Driving Perception with Intelligent Image Restoration*. **Citations: 20+**, **GitHub Stars: 250+**
- ICLR'26** Sixiang Chen, ..., **Yeying Jin**, ..., Lei Zhu. *PosterCraft: Rethinking High-Quality Aesthetic Poster Generation in a Unified Framework*. **GitHub Stars: 530+**
- ICCV'25** Sixiang Chen, ..., **Yeying Jin**, ... *GenHaze: Pioneering Controllable One-Step Realistic Haze Generation for Real-World Dehazing*.
- ACMMM'25** Qirui Yang, Fangpu Zhang, **Yeying Jin**, ... *DSDNet: Raw Domain Demoiréing via Dual Color-Space Synergy*.
- IJCAI'25** Songtao Jiang, ..., **Yeying Jin**, ... *Modality-Fair Preference Optimization for Trustworthy MLLM Alignment*. **Citations: 20+**.
- ADHIP'24** Songtao Jiang, ..., **Yeying Jin**, ... *Joint Visual and Text Prompting for Improved Object-Centric Perception with Multimodal Large Language Models*. **Citations: 20+**, **Best Paper Award**.
- AAAI'26** Shuo Wang, ..., **Yeying Jin**, ... *Monodream: Monocular Vision-Language Navigation with Panoramic Dreaming*.
- AAAI'26** Xudong Cai, ..., **Yeying Jin**, ... *Mem4D: Decoupling Static and Dynamic Memory for Dynamic Scene Reconstruction*.
- TCSVT'25** Siyuan Wang, ..., **Yeying Jin**, ... *MMGT: Motion Mask Guided Two-Stage Network for Co-Speech Gesture Video Generation*.
- ACL'25** Songtao Jiang, Yan Zhang, **Yeying Jin**, ... *HSCR: Hierarchical Self-Contrastive Rewarding for Aligning Medical Vision Language Models*.
- ACL'25** Songtao Jiang, .., **Yeying Jin**, ... *Fast or Slow? Integrating Fast Intuition and Deliberate Thinking for Enhancing Visual Question Answering*.
- MICCAI'25** Songtao Jiang, ..., **Yeying Jin**, ... *Knowing or Guessing? Robust Medical Visual Question Answering via Joint Consistency and Contrastive Learning*.
- TNNLS'25** Shuai Wang, ..., **Yeying Jin**, ... *SNN-FT: Temporal-Coded Spiking Neural Networks for Fourier Transform*.
- NeurIPS'19** Deep Learning-Based End-to-end Automatic Contouring and Automated Radiation Therapy Treatment Planning System. Expo Demo'19.

Invited Talks & Outreach

1. **AAAI'26 Generative AI and Intelligent Agents in Low-Level Vision Workshop** (invited by Xin Li) | From Creation to Perception: **Generative AI** for Content Generation, Singapore
2. **ICCV'25 AI4Streaming Workshop** (Invited by Marcos V. Conde) | From Creation to Perception: **Generative AI** for Content Generation, USA
3. **ICLR'25 Open Multimodal Gathering** (Invited by Kevin Qinghong Lin) | AI × Gaming: Creative Applications of **AIGC**, Singapore
4. **Low-level Vision Community'26** (invited by Xiang Chen) textbar **AIGC-Powered** Game Marketing: From Generation to Deployment, Singapore
5. **Tencent Talks**
 - Exploring SORA2: Unlocking the Core of **AI Video** Creation (invited by Tencent Programmers Video), 2025
 - **AI Video Generation**: When Wukong meets Yayoi Kusama (invited by Ruidong Wang), 2025
 - **AI Generation**: Inspiring Game Marketing and Development (invited by Botao Li), 2025
 - Applications of **Generative AI** (invited by Jun Lang), 2023
6. **Adobe / Huawei / ByteDance Talks**
 - Adobe Reading Group: Light Effects Suppression (invited by Eric Kee), 2023
 - Huawei: Visibility Enhancement using **Generative Model** (invited by Michael Bi Mi), 2023
 - Huawei: Image/Video Restoration and **Generation** (invited by Michael Bi Mi), 2023
 - ByteDance: **Diffusion Model** in Image Processing (invited by Hanshu Yan), 2023
 - Huawei: Visibility Enhancement in Nighttime (invited by Michael Bi Mi), 2022
7. **AI TIME Seminar**
 - Raindrop Clarity: Dual-Focused, Day and Night, 2024
 - Shadow Removal using **Diffusion Model**, 2024
 - Intrinsic Image Decomposition, 2023
 - Unsupervised Image Restoration and **Generation**, 2022

Academic Activities

- **Reviewer:** CVPR, ICCV, ECCV, NeurIPS, ICML, ICLR, TPAMI, IJCV, TIP, TCSVT, CVIU, AAAI, ACMMM
- **Teaching Assistant:** EE5731 Visual Computing, EE5904 Neural Networks at NUS
- **Mentored:** 2 Ph.D. and 2 M.Sc. students, 2 full-time at Tencent on-site; 4 M.Sc. students at NUS
- **Poster Presentations:** VALSE, 2024; Singapore Vision Day, 2023; AI Research Symposium by AISG, 2023

Skills

Proficient: Python, PyTorch, LATEX, TensorFlow, ComfyUI, WebUI, C, HTML

Languages: Mandarin (Native) and English (Professional)