

Zixuan Ye

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BIOGRAPHY

I am a second-year Master student at the School of Artificial Intelligence and Automation, Huazhong University of Science and Technology, supervised by Professor Zhiguo Cao (expected to graduate in 2025 summer). My research interests include image matting, dense prediction and content generation.

RESEARCH INTERESTS

- **Image Matting:** Data composition styles; Unified structure; Novel application
- **Basic Modules:** Upsampling operator design
- **Content Generation:** Customized Image editing

EDUCATION

Huazhong University of Science and Technology

Wuhan, China

Master of Engineering in Artificial Intelligence

Sep 2022 – Jun 2025 (expected)

- GPA: **92.2**, Rank: **14/84**

Huazhong University of Science and Technology

Wuhan, China

Bachelor of Engineering in Automation

Sep 2018 – Jun 2022

- GPA: **90.0**, Rank: **3/29**

RESEARCH EXPERIENCE

Research Intern, Alibaba, DAMO Academy, City Brain Group

Mar 2024 – Present

Supervisor: Dr. Sijia Cai and Prof. Jieping Ye

- Controlled Image Editing
 - ✧ Enable editing with transparent objects
 - ✧ Keep higher consistency with reference image

PUBLICATIONS

Conference Publication

[1] **Unifying Automatic and Interactive Matting with Pretrained ViTs**

Zixuan Ye, Wenze Liu, He Guo, Yujia Liang, Chaoyi Hong, Hao Lu, Zhiguo Cao

IEEE Conference on Computer Vision and Pattern Recognition, 2024 [**CVPR 2024**]

[2] **Infusing Definiteness into Randomness: Rethinking Composition Styles for Deep Image Matting**

Zixuan Ye, Yutong Dai, Chaoyi Hong, Zhiguo Cao, Hao Lu
AAAI Conference on Artificial Intelligence, 2023 [**AAAI 2023**]

[3] **SAPA: Similarity-Aware Point Affiliation for Feature Upsampling**

Hao Lu, Wenze Liu, Zixuan Ye, Hongtao Fu, Yuliang Liu, Zhiguo Cao
Neural Information Processing Systems, 2022 [**NeurIPS 2022 spotlight**]

[4] **In-Context Matting**

He Guo, Zixuan Ye, Zhiguo Cao, Hao Lu
IEEE Conference on Computer Vision and Pattern Recognition, 2024 [**CVPR 2024 highlight**]

ACADEMIC SERVICES

- Teaching Assistant for “Introduction to Artificial Intelligence” (2023)
- Reviewer for PRCV 2023

HONORS & AWARDS

- HUST First-class Scholarship for postgraduates, (Top 10%), 2022 and 2023
- Shenzhen Stock Exchange Scholarships for postgraduates, 2023
- HUST Merit Postgraduate, 2023
- HUST Merit Undergraduate, (Top 7%), 2021
- HUST Scholarship for Academic Excellence, 2019
- Outstanding Freshman Scholarship, 2019

SKILLS

- **English level:** CET-4 (625), CET-6 (546)
- **Programming:** Python, C++
- **Tools:** PyTorch, Gradio, Matlab