

Chuong Huynh

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Education

University of Maryland, College Park

Ph.D. in Computer Science – AI/Computer Vision
GPA: 3.86/4.0, Advisor: Professor Abhinav Shrivastava

MD, U.S.A.

2021 – 2026

University of Science – Vietnam National University

Bachelor of Science in Honors Program – Information Technology

Vietnam

2014 – 2018

Selected Publications

Composing Object Relations and Attributes for Image-Text Matching

Khoi Pham, Chuong Huynh, Ser-Nam Lim, Abhinav Shrivastava

CVPR'24

MaGgLe: Masked Guided Gradual Human Instance Matting

Chuong Huynh, Seoung Wug Oh, Abhinav Shrivastava, Joon-Young Lee

CVPR'24

46k views on AK Twitters

SimpSON: Simplifying Photo Cleanup With Single-Click Distracting Object Segmentation Network

Chuong Huynh, Yuqian Zhou, Zhe Lin, Connelly Barnes, Eli Shechtman, Sohrab Amirghodsi, Abhinav Shrivastava

CVPR'23

Tech transfer to Photoshop

Research Experience (recent)

Rufus MM - Amazon.com

Multimodal Large Language Model (MM-LLM) in Composed Image Retrieval (*Mentor: Dr. Jinyu Yang, Advisor: Dr. Son Tran, Prof. Mubarak Shah*): A new strong baseline for the task with a novel training method without triplet datasets.

CA, U.S.A.

May 2024 - present

University of Maryland, College Park

CORA – CVPR'24 (*Advisor: Prof. Abhinav Shrivastava*): Design a Textual Scene Graph Embedding to improve the Image - Rich Attribute Text Alignment (\uparrow 4-8 RSUM).

MD, U.S.A.

April 2022 – Nov 2023

Adobe Research – Adobe Inc.

MaGgLe Matting – CVPR'24 (*Mentor: Dr. Joon-Young Lee*): Optimize matting models using weak segmentation mask (\uparrow 6x speed, \downarrow 75% mem, \downarrow error, \uparrow temporal consistency).

Remote, U.S.A.

June 2023 – Nov 2023

Photoshop ART – Adobe Inc.

SimpSON – CVPR'23 (*Mentor: Dr. Yuqian Zhou*): Class-agnostic visual instance retrieval with user's single-click, get \uparrow 4-8 AP comparing to interactive segmentation with multi-click.

Remote, U.S.A.

June 2022 – May 2023

Honors & Awards

2021 **Dean's Fellowship** – Ph.D. UMD

2020 **Top 2%** (19/1317) in FGVC Challenge, CVPR Workshop

2019 **Bronze medal** – top 7% (196/2931) in APTOS Kaggle Competition

2019 **Best poster presentation** in Southeast Asia Machine Learning School, Indonesia

Skill Sets

Languages: Python (Proficient), C/C++ (libtorch, TensorRT), Java, Javascript

Frameworks: PyTorch, libtorch, Tensorflow (1.0, 2.0), TensorRT, Scikit-Learn, Numpy, OpenCV, Docker, AWS, GCP