

Chuong Huynh

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Education

University of Maryland, College Park

Ph.D. in Computer Science – AI/Computer Vision
GPA: 3.83/4.0, 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

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

Tech transfer to Photoshop

CVPR'23

Progressive Semantic Segmentation

Chuong Huynh, Anh Tran, Khoa Luu, Minh Hoai

111 stars on github, 58 cites

CVPR'21

Research Experience

University of Maryland, College Park

Composing Object Attributes and Relationships for Image-Text (Advisor: Prof. Abhinav Shrivastava): Improve the Image-Text Alignment by \uparrow 4-8 RSUM on Flickr30K with GNN.

MD, U.S.A.

April 2022 – present

Adobe Research – Adobe Inc.

Human Instance Video Matting with Mask Guidance (Mentor: Dr. Joon-Young Lee): More efficient (\uparrow 1.5-3.0x speed, \downarrow 25% mem), more accurate (\downarrow 23 MAD) than InstMatt along with a self-supervised training strategy on VIS dataset.

Remote, U.S.A.

June 2023 – present

Photoshop ART – Adobe Inc.

One-single-click to select all objects (Mentor: Dr. Yuqian Zhou): The first baseline in finding similar objects with user one-click, also get \uparrow 4-8 AP comparing to interactive segmentation.

Remote, U.S.A.

June 2022 – May 2023

VinAI Research

High-resolution semantic segmentation (Mentor: Prof. Minh Hoai): Combine global and local context at different scales to yield 1-2% mIoU improvement (PointRend, SegFix, GLNet) on Cityscapes, DeepGlobe, and Gleason datasets.

Vietnam

Jul 2019 – Apr 2021

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