

DAT HUYNH

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🌐 <https://hbdat.github.io/>

🐙 <https://github.com/hbdat>

🌐 [linkedin](#)

Education

Northeastern University

Ph.D. in Computer Science: 3.97 / 4.00

Aug. 2017 – May. 2022 (Expected)

Boston, Massachusetts, USA

Advanced Program in Computer Science, University of Science

B.S. in Computer Science (ranked 2th in class 2012 with High Distinction): 3.95 / 4.00

Sep. 2012 – Nov. 2021

Ho Chi Minh, Vietnam

Nanyang Technological University

Awarded Temasek Foundation Exchanged Scholarship: 5.00 / 5.00

Aug. 2014 – Dec. 2014

Singapore

Technical Skills

Languages: Python, C, Java, JavaScript, MATLAB

Technologies/Frameworks: PyTorch, Tensorflow, Scikit-Learn, Numpy, Docker, OpenCV, Linux

Experiences

Adobe Research

Incoming Research Intern

May 2021 – Sep 2021

MCADS Lab, Northeastern University

Research Assistant

Aug 2017 – Present

- **Image Recognition:**

- i) design a self-training scheme to recover missing labels in popular datasets and improve 2% performance on 9M images,
- ii) design a shared-attention model to recognize unseen labels and scale to 7000 seen and 400 unseen labels,
- iii) design a dense attention model to distinguish fine-grained classes and achieve 4% improvement on Fashion recognition.

- **Video Understanding:** design a self-supervised method to classify and summarize complex actions in videos from YouTube without human segmentation annotations and gain 3% improvement on 18 activities in 2.7K videos.

VNG Corporation

Data Engineer

May 2019 – August 2019

- **Customer Behavior Analysis:** implement a scikit-learn module within Hadoop pipelines for summarizing customer interactions to detect and prevent phishing in real-time.

iSpace Lab, Simon Fraser University

Research Assistant

May 2019 – August 2019

- **Human-Computer Interaction:** design a navigation interface based on human gestures from raw sensor data for controlling characters in Virtual Reality.

Selected Publications – (Full Publications: [Google Scholar](#))

Compositional Zero-Shot Learning via Fine-Grained Dense Feature Composition

NeurIPS20

Dat Huynh, Ehsan Elhamifar

A Shared Multi-Attention Framework for Multi-Label Zero-Shot Learning

CVPR20

Dat Huynh, Ehsan Elhamifar

Fine-Grained Generalized Zero-Shot Learning via Dense Attribute-Based Attention

CVPR20

Dat Huynh, Ehsan Elhamifar

Interactive Multi-Label CNN Learning with Partial Labels

CVPR20

Dat Huynh, Ehsan Elhamifar

Self-Supervised Multi-Task Procedure Learning from Instructional Videos

ECCV20

Dat Huynh, Ehsan Elhamifar

Active Metasurfaces Design by Conditional Generative Adversarial Networks

META20

Samad Jafar-Zanjani, Mohammad Mahdi Salary, Dat Huynh, Ehsan Elhamifar, and Hossein Mosallaei

Achievements

J.P. Morgan Fellowship

2021-2022

- \$100k funding for A.I. research in financial applications (awarded to 15 individuals worldwide).

Northeastern Graduate Fellowship

2017-2018

- \$32k stipend for first-year PhD student.

Representative at Ecosperity conference and Young Leaders Dialogue

2015

- Among 140 internationally selected participants for a one-week conversation with world leaders, Singapore