

# 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*

### Nanyang Technological University

*Awarded Temasek Foundation Exchanged Scholarship: 5.00 / 5.00*

Aug. 2014 – Dec. 2014

*Singapore*

### 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*

## Technical Skills

**Languages:** Python, C, Java, JavaScript, MATLAB

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

## Experiences

### Adobe Research

May. 2021 – Sep. 2021

*Incoming Research Intern*

### MCADS Lab, Northeastern University

Aug. 2017 – Present

*Research Assistant*

- **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:** implement 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

Feb. 2017 – Aug. 2017

*Data Engineer*

- **Customer Behavior Analysis:** implement scikit-learn modules for analyzing customer interactions to detect and prevent phishing in real-time.

### iSpace Lab, Simon Fraser University

May. 2015 – Aug. 2015

*Research Assistant*

- **Human-Computer Interaction:** design a navigation interface in Unity 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

*Ehsan Elhamifar, Dat Huynh*

### 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 incoming PhD students.

### Representative at Ecosperity conference and Young Leaders Dialogue

2015

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