Dat Huynh

huynh.dat@northeastern.edu • hbdat.github.io • +1 617-417-0191

EDUCATION

Northeastern University, Boston, Massachusetts, USA   Aug 2017 – Aug 2022 (expected)
- Ph.D. in Computer Science: 3.97 / 4.00

University of Science, Ho Chi Minh, Vietnam   Sep 2012 – Nov 2016
- B.S. in Computer Science: 3.95 / 4.00

Nanyang Technological University, Singapore   Aug 2014 – Dec 2014
- Awarded Temasek Foundation Exchanged Scholarship: 5.00 / 5.00

EXPERIENCE

Research Assistant, MCADS Lab, Northeastern University, USA   Aug 2017 – Present
- Supervisor: Prof. Ehsan Elhamifar
  - Generated fine-grained features for unseen classes to improve unseen clothing recognition by 4% harmonic mean compared to the SOTA on DeepFashion dataset (first author - accepted at NeurIPS20)
  - Recognized 7000 seen labels and 400 unseen labels in Open Images by sharing attention signals among labels (first author - accepted at CVPR20, **Oral**)
  - Improved the SOTA performances on CUB, AWA2 by at least 4% harmonic mean by weakly localizing fine-grained attributes of all classes (first author - accepted at CVPR20)
  - Applied self-supervised learning on CrossTask and ProceL datasets to recognize key-frames in videos without human supervision (accepted at ECCV20)

Data Engineer, VNG Corporation, Vietnam   Feb 2017 – Aug 2017
- Applied machine learning techniques on textual and visual data to detect malicious users

Research Assistant, iSpace Lab, Simon Fraser University, Canada   May 2015 – Aug 2015
- Supervisor: Prof. Bernhard Riecke – Project: Gamified Research
  - Developed a novel control interface using sensors to map hand gestures into moving directions

SKILLS

Programming Languages
- Python: (Proficient), C/C++, Java, Javascript, MATLAB: (Prior Experience)

Frameworks
- Tensorflow, PyTorch, Scikit-Learn, Numpy: (Proficient), OpenCV: (Prior Experience)

Software Development
- Design and Execute research projects under time and computational constraints
- Document and Release 4 research projects: *https://github.com/hbdat*
- Version Control (Git)

System
- Bash scripting for task automation, File systems in Linux, Basic network protocols

AWARDS & SCHOLARSHIPS

- **Graduate Fellowship**   2017
  Khoury College of Computer Sciences, Northeastern University, USA

- **2nd Rank Graduation** with High Distinction   2016
  Advanced Program in Computer Science, University of Science, Vietnam

- Representative at **Ecosperity conference and Young Leaders Dialogue**   Sep 2015
  Among 140 internationally selected participants in a one-week forum with world leaders, Singapore

- **Temasek Foundation Exchanged Scholarship**   Aug 2014 – Dec 2014
  One semester study at Nanyang Technological University, Singapore