# An Tran

*PhD candidate*

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## Summary

My general interests are in the fields of computer vision, machine learning and heterogeneous computing. Currently, my research focus is on temporal modeling of video, action recognition, action detection, deep learning, and structured prediction.

## Education

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| Aug 2012–Present | **PhD**, *National University of Singapore (NUS)*, Singapore. |
| | Advisors: Prof. Loong-Fah Cheong, Prof. Qi Zhao |
| | Research areas: Computer Vision, Machine Learning |
| | Thesis topic: *Human-focused Action Recognition* |
| Aug 2007–Apr 2012 | **B.Eng.**, *Ho Chi Minh City University of Technology (HCMUT)*, HCM City, *8.92/10*. |
| | Major: Computer Enigneering |
| | Thesis topic: *Measuring Available Bandwidth in Wireless Environment* |
| | Advisors: Dr. Nam Thoai, Prof. Tran Vu Pham, Prof. Guillaume Urvoy-Keller |

## Work Experience

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| Apr 2012–Jun 2012 | **Software Engineer**, *Softfoundry Technology Pte Ltd*, HCM City. |
| | ○ Identifying bottlenecks and improving networks infrastructre for video conference products. |

## Research Experience

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| Sep 2011–Mar 2012 | **Research Intern**, *I3S Lab, Universite Nice Sophia Antipolis*, Sophia Antipolis, France. |
| | ○ Investigating different approaches to measure the bandwidth in wireless networks. |
| Aug 2012–Present | **PhD Candidate**, *Vision and Interactive Media Lab, Dept. of Electrical & Computer Engineering, NUS*. |
| | ○ Developing a spatio-temporal actionness measure, then actionness-assisted action recognition pipeline using Bag-of-Words (BoW) approach. |
| | ○ Developing two-stream flow-guided convolutional attention networks for action recognition. |
| | ○ Proposing different methods to capture long-term temporal nature of videos. |

## Publications

C1 Ye Luo, Loong-Fah Cheong, **An Tran**. Actionness-assisted Recognition of Actions, in *The IEEE International Conference on Computer Vision (ICCV)*, 2015.

C2 **An Tran**, Loong-Fah Cheong. Flow-guided Convolutional Attention Networks for Action Recognition, submitted to *The IEEE International Conference on Computer Vision (ICCV)*, 2017.

## Programming Skills

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| Languages | C/C++, Matlab, Python, Bash. |
| Libraries & frameworks | OpenCV, Caffe, Torch, PyTorch, NVIDIA DIGITS, CUDA, scikit-learn, LIBSVM, Yael, VLFeat, Boost, Eigen. |
| Tools: | Cmake, QtCreator, LaTeX, Linux, Windows. |
| Open Source Contribution | BoW frameworks for action recognition (Matlab toolbox link) |

## Honors and Awards

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| 2012–2016 | NUS Research Scholarship |
| 2011–2012 | Erasmus Mundus Exchange Student Scholarship |
| 2007-2011 | HCMUT Excellent Student Scholarship |

## Relevant courses

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| NUS | EE5731R Visual Computing, EE5907R Pattern Recognition, EE5904R Neural Networks, EE6901 3D Vision, EE6733 Advanced Topics on Vison and Machine Learning, EE6903 Advanced Models of Biological Perception, EE5138R Optimization for Communication Systems, CS4248 Natural Language Processing, CS6101 Deep Learning for NLP, CS6240 Multimedia analysis, CS5340 Uncertainty Modelling in AI, CS5228 Knowledge Discovery and Data Mining, CS5234 Combinatorial and Graph Algorithms, CS5224 Cloud Computing. |
| Coursera | Probabilistic Graphical Models (with Distinction), Machine Learning, Computational Photography (with Distinction), Algorithms (Part I & II) and others. |
| Udacity | Intro to Machine Learning, Intro to Parallel Programming. |

## References

Available upon request.