

**CONTACT
INFORMATION**

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**RESEARCH
INTERESTS**

General: Deep Learning, Computer Vision, Object Recognition, GAN
Subtle: Reinforcement Learning, Face recognition, Large-scale Network Training

EDUCATION

The Chinese University of Hong Kong | CUHK *Hong Kong*

Ph.D candidate *Sep. 2015 to Jun. 2019 (expected)*

Supervisor: Prof. Xiaogang Wang

Field: Deep Learning, Object Recognition, Machine Learning

Dalian University of Technology | DLUT *China*

Bachelor of Engineering *2009 - 2014*

Major: Electronic and Information Engineering

GPA: 91/100, ranking #2 out of 63 students

PUBLICATIONS

[01] **Hongyang Li**, Wanli Ouyang, Xiaogang Wang. Multi-Bias Non-linear Activation in Deep Neural Networks, *International Conference on Machine Learning (ICML)*, June 2016.

[02] **Hongyang Li**, Yu Liu, Wanli Ouyang, Xiaogang Wang. Zoom Out-and-In Network with Recursive Training for Object Proposal, *arXiv preprint:1702.05711*, 2017.

[03] Yu Liu*, **Hongyang Li***, Xiaogang Wang. (*equal contribution) Learning Deep Features via Congenerous Cosine Loss for Person Recognition, *arXiv preprint:1702.06890*, 2017. (*Under review for NIPS 2017*)

[04] **Hongyang Li**, Yu Liu, Xin Zhang, Zhecheng An, Jingjing Wang, Yibo Chen, Jihong Tong. Do We Really Need More Training Data for Object Localization, *IEEE International Conference on Image Processing (ICIP)*, 2017.

[05] Yu Liu, **Hongyang Li**, Junjie Yan, Fangyin Wei, Xiaogang Wang, Xiaoou Tang. Recurrent Scale Approximation for Object Detection in CNN, *IEEE International Conference on Computer Vision (ICCV)*, 2017.

[06] Wanli Ouyang, **Hongyang Li**, Xingyu Zeng, Xiaogang Wang. Learning Deep Representation with Large-Scale Attributes, *IEEE International Conference on Computer Vision (ICCV)*, 2015.

[07] Wanli Ouyang, Xingyu Zeng, Xiaogang Wang, Shi Qiu, Ping Luo, Yonglong Tian, Hongsheng Li, Shuo Yang, Zhe Wang, **Hongyang Li**, Kun Wang, Junjie Yan, Chen Change Loy, Xiaoou Tang. DeepID-Net: Object Detection with Deformable Part Based Convolutional Neural Networks, *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, July 2016.

[08] **Hongyang Li**, Huchuan Hu, Zhe Lin, Xiaohui Shen, Brian Price. Inner and Inter Label Propagation: Salient Object Detection in the Wild, *IEEE Transactions on Image Processing (TIP)*, 24(10):3176-3186, October 2015.

[09] Zhizhen Chi, **Hongyang Li**, Huchuan Hu, Ming-Hsuan Yang. Dual Deep Network for Visual Tracking, *IEEE Transactions on Image Processing (TIP)*, 26(4):2005-2015, April 2017.

[10] **Hongyang Li**, Jiang Chen, Huchuan Hu, Zhizhen Chi. CNN for saliency detection with low-level feature integration, *Elsevier Neurocomputing*, 226:212-220, February 2017.

[11] **Hongyang Li**, Peng Su, Zhizhen Chi, Jingjing Wang. Image Retrieval and Classification on Deep Convolutional SparkNet, *IEEE International Conference on Signal Processing, Communications and Computing (ICSPCC)*, 2016.

[12] Zhizhen Chi, **Hongyang Li**, Jingjing Wang, Huchuan Lu. On the Importance of Network Architecture in Training Very Deep Neural Networks, *IEEE International Conference on Signal Processing, Communications and Computing (ICSPCC)*, 2016.

RESEARCH
EXPERIENCE

Adobe Research

United States

Research Intern

Jul. 2014 to Nov. 2014

Mentor: Dr. Zhe Lin

Work on the salient object detection via deep convolutional neural networks combined with visual features, which is accepted as a regular paper by Elsevier Neurocomputing.

University of Victoria

Canada

Mitacs Research Intern

Jul. 2012 to Sep. 2012

Mentor: Prof. Jianping Pan

Devise an inter-inner-chain strategy to alleviate the server bandwidth consumption in a peer-to-peer video-on-demand (P2P VoD) system.

PROFESSIONAL
ACTIVITY

ORGANIZER, The First CUHK Deep Learning Symposium, 2017 [Website](#)

JOURNAL AND CONFERENCE REVIEWER:

- IEEE Transactions on Pattern Analysis and Machine Intelligence
- IEEE Transactions on Image Processing
- IEEE Transactions on Neural Networks and Learning Systems
- IEEE Transactions on Cybernetics
- IEEE Signal Processing Letters
- Elsevier Pattern Recognition
- Elsevier Neurocomputing
- EURASIP Journal on Advances in Signal Processing
- IEEE International Conference on Computer Vision (ICCV), 2015, 2017
- International Joint Conference on Artificial Intelligence (IJCAI), 2017
- British Machine Vision Conference (BMVC), 2017
- IAPR Conference on Machine Vision Applications, 2017
- International Conference on Neural Information and Processing Systems (NIPS), 2016
- IEEE International Conference on Multimedia Expo (ICME), 2014, 2016
- IEEE International Conference on Visual Communications and Image Processing, 2016
- Asian Conference on Computer Vision (ACCV), 2014

SELECTED AWARDS,
HONORS AND FUNDS

Hong Kong Ph.D Fellowship 2016-2019
 Hong Kong Talent Development Scholarship 2015/16
 First Winner of IEEE Region 10 Student Paper Contest 2016 (Post-Graduate stream)
 China National Scholarship 2011, 2012, 2013 (for three consecutive years)
 Entrepreneurial Scholarship by Shide Ltd. 2010
 Miatacs Globalink Research Grant 2012
 DLUT Excellent Undergraduate Student of Class 2014
 DLUT Elite Student Researcher for Undergraduates (2010-2013)
 Best Student Leader of the Year in Dalian City 2009
 ImageNet Challenge 2016, CUImage Team, First Place
 ImageNet Challenge 2015, Object Detection stream, Second Place
 International Mathematical Modeling, Meritorious Award (only %10) 2011
 National English Contest for College Students, Outstanding Award (only %1) 2012
 Challenge Cup - Science & Tech. Contest, Liaoning Provincial Second Prize
 Electronic Design Contest at DLUT, First Prize

COURSEWORK

TEACHING ASSISTANT AT CUHK:

- Head TA, ELEG5491: Introduction to Deep Learning [Course Website](#) *Spring, 2017*
- ELEG2201: Digital Circuits and Systems *Fall, 2015, 2016, 2017*
- ENGG2430: Probability and Statistics for Engineers *Spring, 2016*

ATTENDED COURSES AS A GRADUATE STUDENT:

- ENGG5108: Big Data Analytics *Fall, 2015*
- ENGG5501: Foundations of Optimization *Fall, 2015*
- ENGG5104: Computer Vision [Project Page](#) *Spring, 2016*
- ENGG5202: Pattern Recognition *Spring, 2016*
- IERG6130: Advanced Machine Learning *Spring, 2016*

SKILLS, LANGUAGE
AND MISC

SOCIAL LEADERSHIP AND EXPERIENCE:

- Volunteer, ACM SIGGRAPH Asia, Macau, China, 2016.
- Volunteer, International Conference on Machine Learning (ICML), New York, USA, 2016.
- Student Delegate, Model United Nations Activity, UN Headquarter, New York, USA, 2011.

ENGLISH TEST:

- TOEFL: 108/120. Reading 30/30, Listening 26/30, Speaking 25/30, Writing 27/30.
- GRE: Verbal 153/170, Quantity 164/170, Analytical Writing 3.5/6.0.
- Test for English Majors (TEM) - Band 8: A Good Certificate.