

Duo Li

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EDUCATION

The Hong Kong University of Science and Technology, Hong Kong SAR *Aug 2019 - Present*
Master/ Doctor of Philosophy, Department of Computer Science and Engineering
Cummulative GPA: 4.033/4.3, fulfill graduation requirement within one academic year
Supervisor: [Qifeng Chen](#) and [Tong Zhang](#)

Tsinghua University, Beijing, China *Aug 2014 - Jul 2019*
Bachelor of Engineering, Department of Automation
Cummulative GPA: 92/100, Ranking: 2nd/139

RESEARCH EXPERIENCE

Tsinghua University, Beijing, China *Sep. 2017 - Oct. 2018*
Intelligent Vision Group, Department of Automation
Research Assistant, Supervisor: Jiwen Lu, Associate Professor

Tsinghua University and Chinese Academy of Sciences, Beijing, China *Oct. 2018 - June 2019*
Broadband Network & Digital Media Lab, Department of Automation / Visual Information Processing and Learning Group, Institute of Computing Technology
Research Assistant, Supervisor: Xiangyang Ji and Ruiping Wang, Professor

Intel Labs China, Beijing, China *Feb. 2018 - Jan. 2020*
Cognitive Computing Laboratory
Research Internship, Mentor: Anbang Yao, Principal Research Scientist

SenseTime Group Limited, Shenzhen, China *Jan. 2020 - June 2020*
Open-MMLab Group
Research Internship, Mentor: Kai Chen, Research Director

ByteDance AI Lab, Beijing, China *July 2020 - Present*
Visual Computing Group
Research Internship, Mentor: Jie Hu and Changhu Wang, Research Director

PUBLICATIONS AND MANUSCRIPTS

Conference Papers

- [1] Involution: Inverting the Inherence of Convolution for Visual Recognition
Duo Li, Jie Hu, Changhu Wang, Xiangtai Li, Qi She, Lei Zhu, Tong Zhang, and Qifeng Chen
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021
- [2] Representative Batch Normalization with Feature Calibration
Shang-Hua Gao, Qi Han, **Duo Li**, Ming-Ming Cheng, and Pai Peng
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021 (oral)
- [3] PointFlow: Flowing Semantics Through Points for Aerial Image Segmentation
Xiangtai Li, Hao He, Xia Li, **Duo Li**, Guangliang Cheng, Jianping Shi, Lubin Weng, Yunhai Tong, and Zhouchen Lin
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021
- [4] Learning the Superpixel in a Non-iterative and Lifelong Manner
Lei Zhu, Qi She, Bin Zhang, Yanye Lu, Zhilin Lu, **Duo Li**, and Jie Hu
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021
- [5] Deep Reinforced Attention Learning for Quality-Aware Visual Recognition
Duo Li and Qifeng Chen
European Conference on Computer Vision (ECCV), 2020

- [6] Learning to Learn Parameterized Classification Networks for Scalable Input Images
Duo Li, Anbang Yao, and Qifeng Chen
European Conference on Computer Vision (ECCV), 2020
- [7] PSConv: Squeezing Feature Pyramid into One Compact Poly-Scale Convolutional Layer
Duo Li, Anbang Yao, and Qifeng Chen
European Conference on Computer Vision (ECCV), 2020
- [8] Resolution Switchable Networks for Runtime Efficient Image Classification
Yikai Wang, Fuchun Sun, **Duo Li** and Anbang Yao
European Conference on Computer Vision (ECCV), 2020
- [9] Dynamic Hierarchical Mimicking Towards Consistent Optimization Objectives
Duo Li and Qifeng Chen
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2020
- [10] HBONet: Harmonious Bottleneck on Two Orthogonal Dimensions
Duo Li[†], Aojun Zhou[†], and Anbang Yao ([†] indicates equal contribution.)
IEEE/CVF International Conference on Computer Vision (ICCV), 2019

AWARDS

2013	Bronze Medal of 29 th Chinese Mathematical Olympiad (CMO)
2015, 2016	Evergrande Scholarship, Tsinghua University
2017	HAGE Scholarship, Tsinghua University
2018	Qualcomm Scholarship (33 awardees among all undergraduates in Tsinghua University)
2019~2021	Asian Future Leaders Scholarship Program (AFLSP) (up to 105 scholarships from Asia each year)
2019	Intel Division Recognition Award
2020	Intel China QGS Award (highest Chinese quarterly award, 2/8,000 Intel employees)
2020	Intel Distinguished Invention Award (5/20,000 Intel employees each year)
2020	Postgraduate Studentship (PGS), HKUST
2020	CCF-CV Academic Emerging Award (3 awardees nationwide among postgraduates)
2020	CAAI-Huawei MindSpore Open Fund (40 awardees nationwide among postgraduates and faculties)
2021	RedBird PhD Scholarship Program, HKUST
2021~2024	Hong Kong PhD Fellowship Scheme (HKPFS) (awarded to 300 PhD applicants worldwide)

TALKS

- [1] **Making Convolutional Neural Networks Lightweight Again**
Invited talk at Emerging Innovations Group, SenseTime Group Limited, Shenzhen, China, May 12nd, 2020
- [2] **Rethinking Learning Dynamics of Deeply-Supervised Networks and Beyond**
Invited talk at Theory Lab, Huawei Technologies Co., Ltd., Hong Kong SAR, June 18th, 2020
- [3] **Crafting Efficient Neural Networks through the Lens of Spatial Resolution**
Invited oral presentation at **Doctoral Forum** of 3rd Chinese Conference on Pattern Recognition and Computer Vision (PRCV), Nanjing, China, October 17th, 2020
- [4] **Inverting the Inherence of Convolution for Visual Recognition**
 - Invited talk at Extreme Mart salon, CVPR 2021 seminar, Shenzhen, China, March 27th, 2021
 - Invited oral presentation at 3rd Beijing University Academic Forum on Artificial Intelligence (BUAF-AI), Beijing, China, April 17th, 2021 (**Best Oral Presentation Award**)
 - Invited talk at **Synced AI**, virtual, April 20th, 2021
 - Invited talk at **Tech Beat**, virtual, May 13rd, 2021
 - Invited oral presentation at Synced AI CVPR 2021 meetup, Beijing, China, 12nd June, 2021
 - Invited talk at Baiyulan Open AI Forum, Shanghai Jiaotong University, virtual, 30th June, 2021

ACADEMIC SERVICES

Senior Program Committee

IJCAI

Program Committee/Reviewer

ICCV, CVPR, ICML, NeurIPS, ICLR, AAAI