

Changqian Yu

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Birthday: 1993/9 | Male

Objective: Computer Vision Research Engineer



EDUCATION

Huazhong University of Science and Technology

2016.09 - 2021.06

Ph.D. Computer Vision School of Artificial Intelligence and Automation

University of Adelaide

2019.10 - 2020.10

Joint Ph.D. Computer Vision School of Computer Science

Shandong University

2012.09 - 2016.06

B.S. Automation School of Control Science and Engineering

PUBLICATIONS (W/ SUBMISSIONS)

Google Scholar Citations > 470

1. Context Prior for Scene Segmentation
Changqian Yu, Jingbo Wang, Changxin Gao, Gang Yu, Chunhua Shen, Nong Sang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR). 2020.
2. BiSeNet: Bilateral Segmentation Network for Real-time Semantic Segmentation
Changqian Yu*, Jingbo Wang*, Chao Peng, Changxin Gao, Gang Yu, Nong Sang
European Conference on Computer Vision (ECCV). 2018.
3. Learning a discriminative feature network for semantic segmentation
Changqian Yu, Jingbo Wang, Chao Peng, Changxin Gao, Gang Yu, Nong Sang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR). 2018.
4. GTNet: Generative Transfer Network for Zero-Shot Object Detection
Shizhen Zhao, Changxin Gao, Yuanjie Shao, Lerenhan Li, **Changqian Yu**, Zhong Ji, Nong Sang
The Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI). 2020.
5. An End-to-End Network for Panoptic Segmentation
HuanYu Liu, Chao Peng, **Changqian Yu**, Jingbo Wang, Xu Liu, Gang Yu, Wei Jiang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR). 2019.
6. BiSeNet V2: A Backbone Network for Real-time Semantic Segmentation
Changqian Yu, Jingbo Wang, Gang Yu, Changxin Gao, Chunhua Shen, Nong Sang
Submitted to International Journal of Computer Vision (IJCV).
7. Representative Graph Neural Network
Changqian Yu, Yifan Liu, Changxin Gao, Chunhua Shen, Nong Sang
Submitted to European Conference on Computer Vision (ECCV). 2018.
8. ASNet: Aggregated Scale Transformations for Real-Time Semantic Segmentation
Changqian Yu*, Chaoqun Wang*, Depu Meng*, Nong Sang, Xuejin Chen, Houqiang Li, Jingdong Wang
Submitted to European Conference on Computer Vision (ECCV), 2020.
9. Efficient Semantic Video Segmentation with Per-frame Inference
Yifan Liu, Chunhua Shen, **Changqian Yu**, Jingdong Wang
Submitted to European Conference on Computer Vision (ECCV), 2020.
10. Graph-Based Scale-Aware Network for Human Parsing
Beibei Yang, **Changqian Yu**, Jiahui Liu, Changxin Gao, Nong Sang
Chinese Conference on Pattern Recognition and Computer Vision (PRCV). 2019.
11. Spatially Attentive Correlation Filters for Visual Tracking
Huai Qin, Zhixiong Pi, **Changqian Yu**, Changxin Gao, Jin-gang Yu, Nong Sang
IEEE International Conference on Image Processing (ICIP). 2018.
12. Center-Level Verification Model for Person Re-identification
Ruo Chen, Yang Chen, **Changqian Yu**, Chuchu Han, Changxin Gao, Nong Sang
Chinese Conference on Pattern Recognition and Computer Vision (PRCV). 2018.

ACADEMIC COMPETITIONS

- No.1 of COCO 2018 Panoptic Segmentation Challenge
- No.1 of Mapillary Vistas 2018 Panoptic Segmentation Challenge
- No.5 of Scene Understanding Challenge 2018 for Autonomous Navigation in Unstructured Environments
- No.2 of Momenta Lane Detection Challenge 2018

OPEN-SOURCED PROJECTS

TorchSeg (GitHub Stars > 1.1K Forks > 200)

<https://github.com/ycszen/TorchSeg>

EXPERIENCE

Visual Computing Group, Microsoft Research Asia

Research Intern

Mentor: Dr Jingdong Wang, Senior Principal Research Manager, Microsoft Research Asia

2019.12 - Present

Beijing, China

Australian Institute for Machine Learning, University of Adelaide

Visiting Ph.D. Student

Advisor: Prof. Chunhua Shen

2019.06 - 2019.09

Adelaide, Australia

Megvii(Face++) Research

Research Intern

Mentor: Dr Gang Yu, Lead Researcher, Megvii (Face++) Research

Supervisor: Dr Jian Sun, Chief Scientist, Megvii (Face++) Research

2017.07 - 2019.06

Beijing, China

PROFESSIONAL ACTIVITIES

MSRA VCG Talk

Title: Context in Semantic Segmentation

2019.06 -

ECCV2018 COCO & Mapillary Joint Workshop Talk

Title: MSCOCO & Mapillary Panoptic Segmentation Challenge 2018

2018.06 -

Reviewer

CVPR'2019, ICCV'2019, AAAI'2020, CVPR'2020, ECCV'2020, TIP

HONORS & AWARDS

- State Scholarship for Study Abroad, China Scholarship Council of P.R. China 2019
- Short-term Study Abroad Scholarship for Postgraduates, Huazhong University of Science and Technology 2018
- National Scholarship, Ministry of Education of P.R. China 2018
- Merit Student, Huazhong University of Science and Technology 2018
- "Hewang" Electric Excellence Scholarship, Huazhong University of Science and Technology 2019
- "Hewang" Electric Excellence Scholarship, Huazhong University of Science and Technology 2018
- Graduate Knowledge and Excellence Scholarship, Huazhong University of Science and Technology 2017
- Second Class Prize, National University Student Social Practice and Science Contest on Energy Saving & Emission Reduction 2015
- First Class Prize, "RoboCup" Open Finals and China Robot Competition 2014
- Second Class Prize, National College Students Innovation and Entrepreneurship Training Program 2014
- Second Class Prize, Shandong Province College Students "TI Cup" Electronic Design Competition 2014
- Innovative Entrepreneurial Activities Advanced Individuals, Shandong University 2014
- Outstanding Student Cadre, Shandong University 2014
- Second Class Prize, Outstanding Students, Shandong University 2014