Zhuoran Yu

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Education

Georgia Institute of Technology *Atlanta, GA*
MASTER OF SCIENCE IN COMPUTER SCIENCE *Aug 2018 - Aug 2020*
- GPA: 4.0/4.0

University of Waterloo *Waterloo, Canada*
BACHELOR OF MATHEMATICS IN COMPUTER SCIENCE AND APPLIED MATHEMATICS *Jan 2014 - June 2018*
- Graduate with Distincction, Dean's Honours List
- Arthur Beaumont Memorial Scholarship

Skills

Languages	Python, Java, C/C++, Matlab
Frameworks	Pytorch, Numpy, Pandas, Scikit-Learn
Skills	Computer Vision, Deep Learning, Semi-Supervised Learning, Object Detection

Experience

Sensetime *Shenzhen, China*
RESEARCH INTERN *May. 2019 - Dec. 2019*
- **Object-detection based product** *SenseKitchen*: replacing previous Two-Stage detectors by One-Stage detectors for acceleration. Achieving 5 times faster real-time inference speed without sacrificing performance.
- **Cutting-edge research on scale variance in object detection and image classification**: Analyzed unexpected behavior of batch normalization and proposed refined design of batch normalization in response to scale variance.

Georgia Institute of Technology *Atlanta, GA*
GRADUATE TEACHING ASSISTANT *Jan. 2020 - Aug. 2020*
- Conducted teaching assistantship in the course *CS 7643 Deep Learning* taught in collaboration with FAIR
- Develop assignments for the OMCS version of CS 7643 Deep Learning

University of Waterloo *Waterloo, ON*
UNDERGRADUATE RESEARCH ASSISTANT *May. 2017 - Dec. 2017*
- Implemented two streaming paritioning algorithms: LGD and Fennel and conducted experiments to evaluate these algorithms in response to different types of queries.

Publications

Scale Calibrated Training: Improving Generalization of Deep Networks via Scale-Specific Normalization 🔗
- **Zhuoran Yu**, Aojun Zhou, Yukun Ma, Yudian Li, Xiaohan Zhang, Ping Luo
- arxiv preprint

Scale-Equalizing Pyramid Convolution for Object Detection 🔗
- Xinjiang Wang*, Shilong Zhang*, **Zhuoran Yu**, Litong Feng, Wei Zhang
- Conference on Computer Vision and Pattern Recognition(CVPR), Seattle, WA, 2020

PICLean: A Probabilistic and Interactive Data Cleaning System 🔗
- **Zhuoran Yu**, Xu Chu
- ACM SIGMOD Demo Track, Amsterdam, the Netherlands, 2019

Project

Semi-Supervised Object Detection via Cross-Scale Consistency
- Applying consistency loss cross scales on feature pyramid with unlabeled data
- Using top-k selection criterion to filter out background anchors before applying consistency loss