

# HAORAN WANG

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<https://github.com/krumo>  $\diamond$  <https://krumo.github.io/>

## EDUCATION

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### ETH Zürich, Switzerland

September 2017 - September 2020 (*expected*)

Msc in Computer Science

Thesis: 3D human body annotation in monocular images with GCN

Supervisor: Prof. Siyu Tang

### Sichuan University, China

September 2013 - July 2017

BEng in Computer Science

GPA: 3.89/4.0, ranking: 2/370

Thesis: Performance evaluation of storage systems for streaming data (95/100)

Supervisor: Prof. Jin Xiong

## PUBLICATION

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- **Haoran Wang\***, Tong Shen\*, Wei Zhang, Lingyu Duan, Tao Mei. Classes Matter: A Fine-grained Adversarial Approach to Cross-domain Semantic Segmentation. ECCV 2020.
- Yuhua Chen, **Haoran Wang**, Wen Li, Christos Sakaridis, Dengxin Dai, Luc Van Gool. Scale-Aware Domain Adaptive Faster R-CNN. (Submitted to IJCV)

## PROFESSIONAL EXPERIENCE

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### Computer Vision and Multimedia Lab, JD AI Research, China

March 2019 - November 2019

*Research Intern*

[Github Repo](#)

- Reduced model training time by 75% by implementing distributed training pipeline
- Improved IoU on cross domain semantic segmentation from 39.3% to 49.2% by aligning class-level feature distribution with class-aware domain discriminator

## RESEARCH EXPERIENCE

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### Computer Vision Lab, ETH Zürich, Switzerland

July 2018 - January 2019

*Research Assistant*

[Github Repo](#)

- Re-implemented CVPR 2018 work 'Domain Adaptive Faster R-CNN for Object Detection in the Wild' based on Facebook's object detection framework Detectron
- Improved training stability by proposing a fine-grained consistency regularization to reduce domain misalignment
- Improved performance on cross domain car detection task from 37.7% to 42.6% with our proposed regularization

### Institute of Computing Technology, Chinese Academy of Science

January 2017 - May 2017

*Visiting Student (Undergraduate Thesis)*

[Github Repo](#)

- Conducted testing and analysis on Yahoo's Pub/Sub Messaging System Pulsar
- Designed and implemented Pub/Sub Messaging System benchmark framework MSBench
- Benchmarked messaging systems Kafka, DistributedLog and Pulsar under different workloads

## PROJECT EXPERIENCE

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### Kaggle: iMat-Fashion Competition at CVPR 2019 workshop

May 2019 - June 2019

- Improved performance for apparel instance segmentation by 13% with model ensembles and post-processing
- Improved results by 2% by using exhaustive search to find optimal strategies to merge predictions of each category
- Got Gold Medal at final Private Leaderboard, rank 4/242

## TECHNICAL STRENGTHS

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**Languages** C/C++, MATLAB, Python, Java, JavaScript,  $\LaTeX$

**Toolboxes** PyTorch, Caffe2, Tensorflow, OpenCV