

ZHUOWAN LI

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EDUCATION

Johns Hopkins University

2018 - present

Ph.D. in Computer Science

Advisors: Alan Yuille, Benjamin Van Durme

Tsinghua University

2014 - 2018

B.E. in Electronic Engineering

Second major: Journalism and Communication

RESEARCH EXPERIENCE

Facebook AI Research, Menlo Park, CA

May 2021 - August 2021

Research intern, mentor: Dhruv Mahajan

- Unsupervised domain adaptation with guidance of pretrained models.

Adobe Research, San Jose, CA

May 2019 - Nov 2019

Research intern, mentors: Quan Tran, Long Mai, Zhe Lin

- Propose new datasets and methods for a new task: context-aware group captioning

Sensetime, Beijing, China

Oct 2017 - March 2018

Part-time Research Internship, mentor: Shuai Yi

- Improve person ReID by reconstructing person images from identity representation using GAN

Tsinghua University, Beijing, China

Nov 2016 - May 2017

Research Assistant advised by Prof. Shengjin Wang

- Improve person ReID by fine-grained attributes and image alignment based on pose estimation

PUBLICATIONS

Zhuowan Li, Cihang Xie, Benjamin Van Durme, Alan Yuille. Localization vs. Semantics: How Can Language Benefit Visual Representations Learning? Under submission.

Zhuowan Li, Xingrui Wang, Elias Stengel-Eskin, Adam Kortylewski, Wufei Ma, Benjamin Van Durme, Alan Yuille. Super-CLEVR: A Virtual Benchmark to Diagnose Domain Robustness in Visual Reasoning. Under submission.

Chenyu Zhang, Benjamin Van Durme, **Zhuowan Li***, Elias Stengel-Eskin*. Visual Commonsense in Pretrained Unimodal and Multimodal Models. NAACL 2022.

Vipul Gupta, **Zhuowan Li**, Adam Kortylewski, Chenyu Zhang, Yingwei Li, Alan Yuille. SwapMix: Diagnosing and Regularizing the Over-Reliance on Visual Context in Visual Question Answering. CVPR 2022.

Zhuowan Li, Elias Stengel-Eskin, Yixiao Zhang, Cihang Xie, Quan Tran, Benjamin Van Durme, Alan Yuille. Calibrating Concepts and Operations: Towards Symbolic Reasoning on Real Images. ICCV 2021.

Zhuowan Li, Quan Tran, Long Mai, Zhe Lin, Alan Yuille. Context-Aware Group Captioning via Self-Attention and Contrastive Features. CVPR 2020.

Yixiao Ge*, **Zhuowan Li***, Haiyu Zhao, Guojun Yin, Shuai Yi, Xiaogang Wang, Hongsheng Li. 2018.
FD-GAN: Pose-guided Feature Distilling GAN for Robust Person Re-identification. NeurIPS 2018.

SKILLS

Programming Languages

Python, MATLAB, C++, C, L^AT_EX

Deep Learning Tools

Pytorch, Tensorflow, Torch, Caffe