

# ZHUOWAN LI

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## EDUCATION

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**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

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**Amazon AWS**, Santa Clara, CA

May 2023 - present

*Applied scientist intern, mentor: Shabnam Ghadar*

- Unsupervised domain adaptation with guidance of pretrained models.

**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

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**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. CVPR 2023 *Highlight*.

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

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

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<b>Programming Languages</b>	Python, MATLAB, C++, C, $\text{\LaTeX}$
<b>Deep Learning Tools</b>	Pytorch, Tensorflow, Torch, Caffe