

# ZEKUN ZHANG

+86 18755107160  
[kzz1994@gmail.com](mailto:kzz1994@gmail.com)  
[zvant.github.io](https://zvant.github.io)

## □ Education

- **Stony Brook University (SBU)** 08/2018 ~ 08/2024  
Ph.D. in Computer Science      Dissertation: *Scene and Task Adaptive Event and Object Detection*
- **University of Science and Technology of China (USTC)** 08/2010 ~ 06/2018  
B.S. in Chemistry, M.E. in Computer Science

## □ Experience

- **Principal Engineer, GroupClock Inc.** 06/2024 ~ 08/2024
  - Design of the overall architecture and technology stack for time clock systems
  - Development of human pose and face recognition models for employee identification
  - Deployment of models on edge devices using NVIDIA DeepStream toolkit
  - Development of employee management system based on MongoDB
- **Software Engineer Intern, Meta Platforms Inc.** 07/2022 ~ 09/2022
  - Development of training data sampling algorithms for Instagram reels recommendation retrieval model
  - Improvement of item quality and user engagement rates in online production A/B test
- **Research Assistant, Computer Vision Lab, SBU** 01/2019 ~ 08/2024
  - Research interests: self-supervised learning, model adaptation, video understanding
  - Development of precise, robust, and efficient frameworks for scene-adaptive object detection
  - Development of prompt adaptation algorithm for object detection on novel categories and new tasks
- **Research Assistant, Multi-Agent Systems Lab, USTC** 04/2015 ~ 06/2018
  - Research interests: home service robot, robot vision, human-robot interaction
  - Development and maintenance of human identification, object detection, and object manipulation systems for home service robot platform
  - In RoboCup competitions: best manipulation award in RoboCup 2017; 3rd place of @Home league in RoboCup 2016; 1st place of BSR league, 2nd place of @Home league in RoboCup 2015

## □ Publications

- Huiying Liu, **Zekun Zhang**, Qilin Wu, Yiwen Zhang, *Large Language Model Aided QoS Prediction for Service Recommendation*, 2024 (under review)
- **Zekun Zhang**, Vu Quang Truong, Minh Hoai, *Efficiency-Preserving Scene-Adaptive Object Detection*, The British Machine Vision Conference (BMVC), 2024 **oral**
- Shih-Po Lee, Zijia Lu, **Zekun Zhang**, Minh Hoai, Ehsan Elhamifar, *Error Detection in Egocentric Procedural Task Videos*, Conference on Computer Vision and Pattern Recognition (CVPR), 2024
- Cheng Liu, Xuyang Yan, **Zekun Zhang**, Cheng Ding, Tianhao Zhao, Shaya Jannati, Cynthia Martinez, Dietrich Stout, *Human Stone Toolmaking Action Grammar (HSTAG): A Challenging Benchmark for Fine-grained Motor Behavior Recognition*, International Conference on Data Science and Advanced Analytics (DSAA), 2024
- **Zekun Zhang**, Minh Hoai, *Object Detection with Self-Supervised Scene Adaptation*, Conference on Computer Vision and Pattern Recognition (CVPR), 2023
- **Zekun Zhang**, Farrukh M. Koraishy, Minh Hoai, *Exemplar-Based Early Event Prediction in Video*, The British Machine Vision Conference (BMVC), 2021

- Vinh Tran, Yang Wang, **Zekun Zhang**, Minh Hoai, *Knowledge Distillation for Human Action Anticipation*, International Conference on Image Processing (ICIP), 2021
- **Zekun Zhang**, Bing Tang, Xiaoping Chen, *Object Manipulation System with Multiple Stereo Cameras for Logistics Applications*, Journal of Computer Applications, 2018
- Guowei Cui, Guangda Chen, **Zekun Zhang**, Xiaoping Chen, *A Flexible Grasping Policy Based on Simple Robot-Camera Calibration and Pose Repeatability of Arm*, International Conference on Intelligent Robotics and Applications (ICIRA), 2018

## □ Skills

- Programming: Python, C/C++, familiar with: JavaScript, SQL
- Libraries: PyTorch, NumPy, scikit-learn, OpenCV, STL
- Tools: Linux, Git, L<sup>A</sup>T<sub>E</sub>X, Adobe Photoshop, Adobe Illustrator
- Languages: Chinese, English, Japanese