

# ZEKUN ZHANG

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## □ Education

- **Stony Brook University (SBU)** 08/2018 ~ 10/2024  
Ph.D. candidate in Computer Science (Expected)
- **University of Science and Technology of China (USTC)** 08/2010 ~ 06/2018  
B.S. in Chemistry, M.E. in Computer Science

## □ Experience

- **Software Engineer Intern, Meta Platforms, Inc.** 07/2022 ~ 09/2022  
Instagram Reels Recommendation Team, New York
  - Development of new training data sampling algorithms for item retrieval model
  - Improvement of item quality and user engagement rates in online production A/B test
- **Research Assistant, Computer Vision Lab, SBU** 01/2019 ~ Present  
Principal Investigator: Prof. Minh Hoai Nguyen
  - Research interests: self-supervised learning, model adaptation, video understanding
  - Development of efficient and robust exemplar based framework for visual event prediction
  - Development of high-precision and robust framework for scene-adaptive object detection
- **Research Assistant, Multi-Agent Systems Lab, USTC** 04/2015 ~ 06/2018  
Principal Investigator: Prof. Xiaoping Chen
  - Research interests: home service robot, robot vision, human-robot interaction
  - Maintenance and development of intelligent home service robot platform *KeJia*
  - Development of human identification, object detection, and object manipulation systems
  - 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

- Shih-Po Lee, Zijia Lu, **Zekun Zhang**, Minh Hoai, Ehsan Elhamifar, *Error Detection in Egocentric Procedural Task Videos*, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024
- **Zekun Zhang**, Minh Hoai, *Object Detection with Self-Supervised Scene Adaptation*, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023
- **Zekun Zhang**, Farrukh M. Koraihy, 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*, IEEE 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