

# Joya Chen

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## BACKGROUND

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### National University of Singapore (NUS)

*Feb. 2022 - Jun. 2022*

- Research Assistant in Dept. of Electr. & Comput. Eng. - Advisor: Asst. Prof. Mike Shou

### National University of Singapore (NUS)

*Aug. 2021 - Jan. 2022*

- Research Assistant in Dept. of Comput. Sci. - Advisor: Asst. Prof. Angela Yao

### University of Science and Technology of China (USTC)

*Sept. 2018 - Jun. 2021*

- **Ranked 1<sup>st</sup>** in National Postgraduate Entrance Exam (USTC CS, 1/300+)
- Master of Computer Science, GPA: 3.1/4.3 - Advisor: Vice Dean, Prof. Enhong Chen

### Wuhan University of Technology (WUT)

*Sept. 2014 - Jun. 2018*

- Bachelor of Vehicle Engineering, GPA: 3.6/4.0 - Advisor: Prof. Jianguo Liu

## PUBLICATIONS

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- Benita Wong\*, **Joya Chen\***, You Wu\*, Stan Weixian Lei, Dongxing Mao, Difei Gao, Mike Zheng Shou. DropIT: Dropping Intermediate Tensors for Memory-Efficient DNN Training. *arXiv Preprint*, 2022. \* Equal contribution. [Paper] [Page] [Code]
- **Joya Chen\***, Kai Xu\*, Yifei Cheng, Angela Yao. DropIT: Dropping Intermediate Tensors for Memory-Efficient DNN Training. *arXiv Preprint*, 2022. \* Equal contribution. [Paper] [Code]
- **Joya Chen**, Dong Liu, Tong Xu, Shiwei Wu, Yifei Cheng, Enhong Chen. Is Heuristic Sampling Necessary in Training Deep Object Detectors? *IEEE Transactions on Image Processing*, 2021. [Paper] [Code]
- Shiwei Wu, **Joya Chen**, Tong Xu, Liyi Chen, Lingfei Wu, Yao Hu, Enhong Chen. Linking the Characters: Video-oriented Social Graph Generation via Hierarchical-cumulative GCN. In *ACM MM 2021* (Oral). [Paper]
- **Joya Chen**, Dong Liu, Bin Luo, Xuezheng Peng, Tong Xu, Enhong Chen. Residual Objectness for Imbalance Reduction. *Pattern Recognition* (revision submitted). [Paper]
- Qi Wu\*, **Joya Chen\***, Zhou Xu, ZhiMing Yao, Xianjun Yang. Capturing Implicit Spatial Cues for Monocular 3D Hand Reconstruction. In *ICME 2021* (Oral). \* Equal contribution. [Paper] [Code]
- **Joya Chen**, Hao Du, Yufei Wu, Tong Xu, Enhong Chen. Cross-Modal Video Moment Retrieval Based on Visual-Textual Relationship Alignment. *SCIENTIA SINICA Informationis*, 2020 (in Chinese). [Paper]
- **Joya Chen**, Qi Wu, Dong Liu, Tong Xu. Foreground-Background Imbalance Problem in Deep Object Detectors: A Review. In *MIPR 2020*. [Paper]
- **Joya Chen**, Bin Luo, Qi Wu, Jia Chen, Xuezheng Peng. Overlap Sampler for Region-Based Object Detection. In *WACV 2020*. [Paper] [Code]

## HONORS

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- Provincial Excellent Master's Thesis in Computer Science Dec. 2021
- *1<sup>st</sup>* in HO-3D Leaderboard in Mesh Error/AUC and F@15mm metrics Dec. 2020
- *1<sup>st</sup>*-class Academic Scholarship for Excellent Graduate Students (¥12,000) Sep., 2020
- KDD CUP 2019 Regular ML Track, PaddlePaddle Special Award (*2<sup>nd</sup>*, \$4,000) Aug. 2019
- Kaggle Competition on Human Protein Image Classification, Gold Medal (Top 0.5%) Jan. 2019
- *1<sup>st</sup>* in PASCAL VOC Object Detection Competition 3 Leaderboard Sep. 2018
- Outstanding Graduate of Wuhan University of Technology Jun. 2018
- *1<sup>st</sup>* in the National Postgraduate Entrance Examination (USTC CS, 1/300+) Mar. 2018

## ENGLISH

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IELTS: 6.5 (Reading 8.0)

## SKILLS

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Programming Languages	Python, C/C++, Shell, Matlab, C#
Tools	Pytorch, Caffe, LaTeX, Vim, MySQL