

# Xixia Xu

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## Research Interest

2D Human Pose Estimation in images, Human-centric understanding & analysis

## Education

2018-Present **Year-Five Ph.D. Student**, *Department of Computer Science & Information Technology*, The Beijing Jiaotong University, Beijing

Full Postgraduate Studentship, Supervisor: Qi Zou

2014-2018 **B.Eng., Electronic Engineering / Software engineering**, *Lanzhou Jiaotong University*, Lanzhou  
School Ranking: 1/44

## Publication

2022 **Location-free Human Pose Estimation**,

**Xixia Xu**, Yingguo Gao, Ke Yan, Xue Lin, Qi Zou\*,

The International Conference on Computer Vision and Pattern Recognition (CVPR'22)

2022 **Adaptive Hypergraph Neural Network for Multi-Person Pose Estimation**,

**Xixia Xu**, Xue Lin, Qi Zou\*, The National Conference on Artificial Intelligence (AAAI'22)

2022 **Structure-enriched Topology Learning for Multi-person Pose Estimation**,

**Xixia Xu**, Xue Lin, Qi Zou\*,

IEEE Transactions on Multimedia (TMM' 22) <An1>

2022 **Inter-image Contrastive Consistency for Multi-Person Pose Estimation**,

**Xixia Xu**, Yingguo Gao, Xingjia Pan, Ke Yan, Chunhua Shen, Qi Zou\*, (Submitted to ACM MM'22)

2022 **Effect of Motion-relevant Knowledge from Unlabeled Video to Human-Object Interaction Detection**,

Xue Lin, Qi Zou\*, **Xixia Xu**,

IEEE Transactions on Neural Networks and Learning Systems (TNNLS' 22) <An1>

2022 **Human-Object Interaction Detection via Recycling of Ground-Truth Annotations**,

Xue Lin, Qi Zou\*, **Xixia Xu**, (under review)

2022 **A Stronger Baseline for Seismic Facies Classification with Less Data**,

Xiaoyu Chen, Qi Zou\*, **Xixia Xu**, Nan Wang, IEEE Transactions on Geoscience and Remote Sensing (TRGS' 22) <An2>

- 2021 **CFENet: Content-aware Feature Enhancement Network for Multi-person Pose Estimation**,  
**Xixia Xu**, Xue Lin, Qi Zou\*, Applied Intelligence (AI'21) <An2>
- 2021 **Motion-Aware Feature Enhancement Network for Video Prediction**,  
Xue Lin, Qi Zou\*, **Xixia Xu**, Yaping Huang, Yi Tian, IEEE Transactions on Circuits and Systems  
for Video Technology (TCSVT'21) <An2>
- 2020 **Integral Knowledge Distillation for Multi-person Pose Estimation**,  
**Xixia Xu**, Xue Lin, Qi Zou\*, Yaping Huang, Yi Tian, IEEE Signal Processing Letters (SPL'20) <An2>
- 2020 **Alleviating Human-level Shift: A Robust Domain Adaptation Method for Multi-person  
Pose Estimation**,  
**Xixia Xu**, Xue Lin, Qi Zou\*, The Proceedings of the 28th ACM International Conference on  
Multimedia (ACM MM'20)
- 2020 **Action-guided Attention Mining and Relation Reasoning Network for Human-Object  
Interaction Detection**,  
Xue Lin, **Xixia Xu**, Qi Zou\*, International Joint Conference on Artificial Intelligence (IJCAI'20)

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## Research Experience

April.2021- **Research intern**, *Tencent Research*, YouTu Lab, *Shanghai*  
Nov.2021 Research: worked on 2D human pose estimation research  
Project: improve the performance of human part detection in 2D images.  
Fruits: finish two patents and write two papers, one is accepted by CVPR2022

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## Honors and Awards

- Full Postgraduate Studentship, BJTU (2018 - present)
- Excellent Graduate, Top 1% student of Lanzhou Jiaotong University
- National Scholarship (2014-2018)
- The third prize in the National College English Contest 2016
- The second prize in the American Undergraduate Mathematical Modeling 2017

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## Skills

Programming Languages: Python, Matlab, LATEX, Shell  
Deep Learning: Pytorch, Tensorflow  
Others: InkScape