

Ce Zheng

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🌐 scholar.google.com/citations?user=YFKLC58AAAAJ

Education

University of Central Florida

Ph.D. student in Computer Science. Advised by **Prof. Chen Chen**

FL, USA

2020/8-now

Tufts University

Master of Science in Electrical Engineering. Advised by Prof. Shuchin Aeron

MA, USA

2017/8-2019/8

University of Bridgeport

Bachelor of Science in Electrical Engineering

CT, USA

2012/8-2016/5

Research Interests

Computer vision; 3D Human Pose Estimation (3D HPE); Human mesh recovery (HMR)

Selected Publications (400+ citations in June 2023)

Published (3D HPE and HMR):

- **Ce Zheng**, Xianpeng Liu, Guo-Jun Qi, and Chen Chen. "POTTER: Pooling Attention Transformer for Efficient Human Mesh Recovery". **CVPR 2023**
- **Ce Zheng**, Matias Mendieta, Taojiannan Yang, Guo-Jun Qi, and Chen Chen. "FeatER: An Efficient Network for Human Reconstruction via Feature Map-Based Transformer". **CVPR 2023**
- Qitao Zhao, **Ce Zheng**, Mengyuan Liu, Pichao Wang, and Chen Chen. "PoseFormerV2: Exploring Frequency Domain for Efficient and Robust 3D Human Pose Estimation". **CVPR 2023**
- **Ce Zheng**, Matias Mendieta, Pu Wang, Aidong Lu, and Chen Chen. "A Lightweight Graph Transformer Network for Human Mesh Reconstruction from 2D Human Pose". **ACM Multimedia 2022**
- **Ce Zheng**, Sijie Zhu, Matias Mendieta, Taojiannan Yang, Chen Chen, and Zhengming Ding. "3d human pose estimation with spatial and temporal transformers". **ICCV 2021**
- **Ce Zheng**, Wenhan Wu, Taojiannan Yang, Sijie Zhu, Chen Chen, ..., Nasser Kehtarnavaz, and Mubarak Shah. "Deep Learning-Based Human Pose Estimation: A Survey". **ACM Computing Surveys 2023**
- **Ce Zheng**, Yecheng Lyu, Ming Li, and Ziming Zhang. "LodoNet: A Deep Neural Network with 2D Keypoint Matching for 3D LiDAR Odometry Estimation". **ACM Multimedia 2020**

Others and Collaborated publications:

- Qucheng Peng, **Ce Zheng**, Chen Chen, Shiqian Wu. "Source-free Domain Adaptive Human Pose Estimation". **ICCV 2023**
- Xianpeng Liu, **Ce Zheng**, Kelvin Cheng, Nan Xue, Guo-Jun Qi, Tianfu Wu. "Monocular 3D Object Detection with Bounding Box Denoising in 3D by Perceiver". **ICCV 2023**
- **Ce Zheng**, Matias Mendieta, and Chen Chen. "POSTER: A Pyramid Cross-Fusion Transformer Network for Facial Expression Recognition". **ICCV Workshop 2023**
- Yilei Hua, Wenhan Wu, **Ce Zheng**, Aidong Lu, Mengyuan Liu, Chen Chen, Shiqian Wu. "Part Aware Contrastive Learning for Self-Supervised Action Recognition". **IJCAI 2023**
- Shengnan Hu, **Ce Zheng**, Zixiang Zhou, Chen Chen, Gita Sukthankar. "LAMP: Leveraging Language Prompts for Multi-person Pose Estimation". **IROS 2023**

- Ming Li, Jun Liu, **Ce Zheng**, Xinming Huang. and Ziming Zhang. " Exploiting Multi-view Part-wise Correlation via an Efficient Transformer for Vehicle Re-Identification". **IEEE Transactions on Multimedia 2021**

Research and Teaching Experience

Research Assistant

Center for Research in Computer Vision, directed by Prof. Mubarak Shah (IEEE and ACM Fellow)

- Transformer-based 3D Human Pose Estimation and mesh recovery, at **University of Central Florida**, Advisor: Prof. Chen Chen, 2020/8 - now.

Research Assistant

Department of Electrical Engineering

- Deep learning Lidar Odometry Estimation at **Worcester Polytechnic Institute**, Advisor: Prof. Ziming Zhang, 2019/9 - 2020/5.

- Machine Learning Colorimetric Sensor Prediction at **Tufts University**, Advisor: Prof. Eric Miller and Prof. Shuchin Aeron, 2017/9 - 2019/5

Teaching Assistant

Department of Electrical Engineering

- Lab TA for EE 403: Electronics at **Tufts University** (2019/1 - 2019/5)
- TA for EE 541: MEMS at **University of Bridgeport** (2016/1 - 2016/5)

Work and Internships

InnoPeak Technology, Seattle, WA

Research Intern in Computer Vision, advised by Dr. Guo-Jun Qi (IEEE Fellow) 2022/5-2022/8

- Developing a transformer-based model for human mesh recovery from single images.
- First author paper: "POTTER: Pooling Attention Transformer for Efficient Human Mesh Recovery", accepted in CVPR 2023.

Academic Services

Reviewer

- Conference: CVPR, ICCV, NeurIPS, SIGGRAPH Asia, ACM MM, ICME...
- Journal: TPAMI, TIP, TCSVT, CVIU, TNNLS, Neurocomputing, Neural Networks...

Scholastic Achievements

- Eta Kappa Nu (HKN) member, Tufts University
- The School of Engineering Reed Award, 2016 in University of Bridgeport
- Magna Cum Laude Honor, 2016 in University of Bridgeport
- Academic Accomplishment Award, 2016 in University of Bridgeport.
- Services Award, 2016 in University of Bridgeport.
- Academic Merit Scholarship from University of Bridgeport.