Ce Zheng

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Education

University of Central Florida — FL, USA
Ph.D. student in Computer Science. Advised by Prof. Chen Chen — *2020/8-now*

Tufts University — MA, USA
Master of Science in Electrical Engineering. Advised by Prof. Shuchin Aeron — *2017/8-2019/8*

University of Bridgeport — CT, USA
Bachelor of Science in Electrical Engineering — *2012/8-2016/5*

Research Interests

Computer vision; Human Pose Estimation; Human mesh recovery

Selected Publications

- **Ce Zheng**, Matias Mendieta,Taojiannan Yang, and Chen Chen. "FeatER: An Efficient Network for Human Reconstruction via Feature Map-Based TransformER". arXiv 2022

- **Ce Zheng**, Matias Mendieta, and Chen Chen. "POSTER: A Pyramid Cross-Fusion Transformer Network for Facial Expression Recognition". arXiv 2022

- **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**

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

- **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". arXiv 2022

- **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**

Research and Teaching Experience

Research Assistant
Department of Electrical Engineering/Department of Computer Science
- Transformer-based 3D HPE and human mesh recovery, at **University of Central Florida**,
Advisor: Prof. Chen Chen, 2021/8 - now.
- 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   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", in submission.

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.