

# XINGYI ZHOU

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## EDUCATION

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**Department of Computer Science, The University of Texas at Austin** Aug 2017 - present  
Graduate student in Computer Science  
GPA: 3.83/4.0  
**School of Computer Science, Fudan University** Sep 2013 - June 2017  
Bachelor in Computer Science and Technology, Outstanding Student Honor Program  
GPA: 3.59/4.0, Rank 10/69, Major GPA: 3.70/4.0

## EXPERIENCE

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**Graphics & AI Lab, The University of Texas at Austin** Aug 2017 - present  
**Advisor:** Prof. Qixing Huang  
**Research Topic:** 3D Vision.  
**Institute for Media Computing, Fudan University** Nov 2014 - June 2017  
**Advisor:** Prof. Wei Zhang & Xiangyang Xue  
**Research Topics:** Pose estimation, object detection, fine-grained image categorization.  
**Visual Computing Group, Microsoft Research Asia (MSRA)** Feb 2016 - Aug 2016  
**Advisor:** Dr. Yichen Wei  
**Research Topics:** Human/hand pose estimation.

## PUBLICATIONS

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**Xingyi Zhou**, Arjun Karapur, Linjie Luo, Qixing Huang. *StarMap for Category-agnostic Viewpoint and Keypoint Estimation*, arXiv, 1803.09331

- Propose the first category-agnostic keypoint representation, and apply this representation on viewpoint estimation task.
- Achieve state-of-the-art performance of keypoint and viewpoint estimation on Pascal3D+ dataset.
- Code and pre-trained model are available on *Github*.

**Xingyi Zhou**, Arjun Karapur, Chuang Gan, Linjie Luo, Qixing Huang. *Unsupervised Domain Adaptation for 3D Keypoint Prediction from a Single Depth Scan*, arXiv 1712.05765

- Introduce an unsupervised domain adaptation technique for 3D keypoint estimation from a single depth scan/image based on the consistency between the predictions of different viewpoints of the same object.
- Achieve better performance on four different types of datasets than baselines and state-of-the-art methods.
- Code and pre-trained model are available on *Github*.

**Xingyi Zhou**, Qixing Huang, Xiao Sun, Xiangyang Xue, Yichen Wei. *Towards 3D Human Pose Estimation in the Wild: A weakly-supervised Approach*, In International Conference on Computer Vision (ICCV), 2017

- Propose a transfer method and a 3D geometric loss for 3D pose estimation from images with only 2D label.
- Achieve the stage-of-the-art performance on Human3.6M dataset and MPI-INF-3DHP dataset.
- Code and pre-trained model are available on *Github*.

**Xingyi Zhou**, Xiao Sun, Wei Zhang, Shuang Liang, Yichen Wei. *Deep Kinematic Pose Regression*, In ECCV Workshop on Geometry Meets Deep Learning, 2016

- Extend the kinematic model layer to general articulated pose estimation.
- Achieve the stage-of-the-art performance on Human3.6M dataset for 3D human pose estimation.

**Xingyi Zhou**, Qingfu Wan, Wei Zhang, Xiangyang Xue, Yichen Wei. *Model-based Deep Hand Pose Estimation*, In International Joint Conference on Artificial Intelligence (IJCAI), 2016

- Propose to directly embed a kinematic model in deep learning for depth image-based hand pose estimation.
- Achieve the stage-of-the-art performance on NYU and ICVL dataset.
- Code, pre-trained model, and prediction are available on *Github*.

## SELECTED AWARDS

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Provost's Graduate Excellence Fellowship, UT Austin	Sep 2017
Honors Student in Top Talent Undergraduate Training Program, Fudan University	June 2017
Shanghai Outstanding Graduate	June 2017
Fudan First Class Scholarship	Sep 2016
Award of Excellence for Stars of Tomorrow Internship Program, Microsoft Research Asia	Aug 2016
Xiyuan Undergraduate Research Grant, Fudan University	May 2016
ACM International Collegiate Programming Contest, Asia Regional, Gold medal	Dec 2014

## SKILLS

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**Programming Languages:** Python, C/C++, Lua, Matlab **Libraries:** pyTorch, Torch, Caffe, Keras  
**TOEFL:** 102 (R27 L27 S20 W28) **GRE:** 322 + 3.5 (V152 Q170 AW3.5)

## REFERENCES

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Qixing Huang  
Assistant Professor  
The University of Texas at Austin  
huangqx@cs.utexas.edu

Yichen Wei  
Senior Researcher  
Microsoft Research  
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Wei Zhang  
Associate Professor  
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