

YUWEI LI

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RESEARCH INTERESTS

Multiview Reconstruction	Hand Tracking
Medical Image Analysis	Interactive Computer Graphics

EDUCATION

Ph.D, Computer Science	<i>ShanghaiTech University</i>	2016 - present
• Advisor: Prof. Jingyi Yu		
B.Sc, Computer Science	<i>Shanghai University</i>	2012 - 2016
• Advisor: Prof. Yuchun Fang		

EXPERIENCE

R&D Intern	2018.6 – 2019.12
• DGene Digital Technology Inc. – Shanghai, China	
• Advisor: Dr. Yingliang Zhang	
Research Assistant	2015.12 – 2017.12
• ShanghaiTech University – Shanghai, China	
• Advisor: Prof. Youyi Zheng	

PUBLICATIONS

- ***CHANDS: A Challenging Hand Gesture Dataset***
(with Xi Luo, Wei Yang, Yu Ji, Wenguang Ma, Chi-Han Peng, Jingyi Yu)
In submission.
- ***Multiview Deformation for Dynamic Human Reconstruction***
(with Xi Luo and Jingyi Yu)
Submitted to TOG2020, in revision
- ***Using Visualization to improve Clustering Analysis on Heterogeneous information Network***
Wenbo Wang, **Yuwei Li**, Xiaopei Liu, Feng Wang, Youyi Zheng
International Conference Information Visualisation (iV) 2018.
- ***AutoSweep: Recovering 3D Editable Objects from a Single Photograph.***
Xin Chen, **Yuwei Li**, Xi Luo, Tianjia Shao, Youyi Zheng, Jingyi Yu, Kun Zhou
IEEE Transactions on Visualization and Computer Graphics. 2018.
- ***SweepCanvas: Sketch-based 3D prototyping on an RGB-D image.***
Yuwei Li, Xi Luo, Youyi Zheng, Pengfei Xu, and Hongbo Fu
ACM User Interface Software and Technology Symposium (UIST) 2017.

RESEARCH EXPERIENCE

- 2018.12 – present Multiview Deformation for Dynamic Human Reconstruction
- *Proposed a multi-view 3D human reconstruction technique with pose estimation, semantic segmentation and silhouette based mesh deformation, specifically targets at handling challenging cases such as textureless appearance and heavy occlusions,*
- 2019.5 – present Multiview Human Hand Reconstruction
- *Presented a challenging hand gesture dataset, and proposed a hybrid method to capture hand from multiview images with pose estimation and parametric model registration.*
- 2018.7 – 2018.10 Mobile virtual fitting for e-commerce
- *Presented a fully automatic method for real time mobile 3D cloth fitting with non-rigid mesh deformation.*
- 2017.12 – 2018.3 Using visualization to transparent the clustering process of Rankclus
- *Presented a visualization method which uses processing flow, DOI tree, and Heatmap to show the process of Rankclus.*
- 2017.7 - 2018.3 AutoSweep: Recovering 3D Editable Objects from a Single Photograph
- *Proposed a fully automatic framework for extracting editable 3D objects with semantic parts directly from a single photograph.*
- 2016.7 - 2017.4 SweepCanvas: Sketch-based 3D Prototyping on an RGB-D Image
- *Presented a sketch-based interactive tool to quickly produce conceptual 3D models atop an RGB-D image.*
- 2016.3 – 2016.6 Interactive 3D reconstruction from a single RGB-D image
- *Developed an interactive tool to extract cuboids from RGB-D images to represent object parts.*

SKILLS

Programming and Software

C/C++, C#, Python

MATLAB, Latex

CUDA, Blender, Processing

Experience

Proficient

Competent

Beginner

Language

Chinese

English

Experience

Native

Competent

AWARDS & HONORS

Shanghai University - Outstanding Graduate

2016

Shanghai University - Excellent Student

2014

Shanghai University - First Class Scholarship

2012 - 2015