

# LINGJIE LIU

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Home page: <https://lingjie0206.github.io/>

## EDUCATION

### **Ph.D. Student, COMPUTER SCIENCE**

08/2014-08/2019

(expected)

The University of Hong Kong, Hong Kong

Department of Computer Science

Supervisor: Prof. Wenping Wang

Hong Kong PhD Fellowship (HKPF) holder (Top 100 PhD students in Hong Kong)

### **BACHELOR'S DEGREE, COMPUTER SCIENCE**

09/2010-06/2014

Huazhong University of Science and Technology, China

Department of Computer Science and Technology

Ranking: 1/329, GPA: 90.68/100

CCF (China Computer Federation) Top 100 Excellent Undergraduates

## RESEARCH INTERESTS

3D Reconstruction, Video Synthesis, Human Performance Capture

## PUBLICATIONS

### **Neural Animation and Reenactment of Human Actor Videos**

*Lingjie Liu*, Weipeng Xu, Michael Zollhöfer, Hyeonwoo Kim, Florian Bernard, Marc Habermann, Wenping Wang, Christian Theobalt

ACM Transactions on Graphics, to be presented at SIGGRAPH 2019

### **CurveFusion: Reconstructing Thin Structures from RGBD Sequences**

*Lingjie Liu\**, Nenglu Chen\*, Duygu Ceylan, Christian Theobalt, Wenping Wang, Niloy J. Mitra

(\* Joint first authors)

SIGGRAPH ASIA 2018

### **Image-based Reconstruction of Wire Art**

*Lingjie Liu*, Duygu Ceylan, Lin Cheng, Wenping Wang, Niloy J. Mitra

SIGGRAPH 2017

## Correlation-preserving Photo Collage

Lingjie Liu, Hongjie Zhang, Guangmei Jing, Yanwen Guo, Zhonggui Chen, Wenping Wang  
IEEE Transactions on Visualization and Computer Graphics (TVCG) 2017

## RESEARCH EXPERIENCE

### New York University

02/2019-06/2019  
(expected)

Visiting scholar, Courant Institute of Mathematical Sciences.

Advisor: Prof. Daniele Panozzo

Working on a project of free-view rendering of human motion reenactment.

### Max Planck Institute for Informatics

03/2018-01/2019

Intern, 3D Video and Vision-based Graphics Group.

Advisor: Prof. Christian Theobalt

Completed the work "Neural Animation and Reenactment of Human Actor Videos" (TOG).

Extended the work above to joint learning of dynamic textures and rendering-to-video translation (To be submitted).

### University College London

09/2016-01/2017  
05/2017-11/2017

Visiting scholar, Virtual Env. And Computer Graphics.

Advisor: Prof. Niloy J. Mitra

Completed the work "Image-based Reconstruction of Wire Art" (SIGGRAPH 2017)

Completed the work "CurveFusion: Reconstructing Thin Structures from RGBD Sequences" (SIGGRAPH ASIA 2018)

### Project of Point Cloud Reconstruction

08/2014-02/2015

Joint project with the Hong Kong Applied Science and Technology Research Institute (ASTRI) with a total budget of 500,000 HKD

## TEACHING EXPERIENCE

### Teaching Assistant

Fall 2014  
Fall 2015

The University of Hong Kong, Hong Kong

Computer Programming and Applications

## INVITED TALKS

### CurveFusion: RGBD-based Reconstruction of Thin Structures

2018

The Computational Fabrication Group, MIT CSAIL

Department of Computer Science, Harvard University

Department of Automation, Tsinghua University

Baidu Research, Beijing

## **Image-based Reconstruction of Wire Art**

2017

School of Mathematical Sciences, University of Science and Technology of China  
Department of Computer Science and Technology, Nanjing University  
Department of Computer Science and Technology, South China University of Technology

## **AWARDS**

HKPFS 2014 /15 (Hong Kong PhD Fellowship Scheme) Award  
Top-100 Excellent Undergraduates of China Computer Federation, 2014  
Best Linpack in HPCAC-ISC'13 Student Cluster Challenge  
Best MIC Performance in Asia Student Supercomputer Challenge (ASC'13)  
Meritorious Winner (1st Award) in Interdisciplinary Contest In Modeling (ICM'13)  
National Scholarship Award, 2013, 2012, 2011

## **TECHNICAL SKILLS**

Programming: C/C++, Python, Matlab  
Deep Learning Framework: PyTorch, Tensorflow  
Tools: Adobe Photoshop, Adobe Premiere, Blender, Autodesk 3DS MAX, Marvelous Designer

## **REFERENCES**

### **Prof. Wenping Wang**

Chair Professor, University of Hong Kong  
wenping@cs.hku.hk

### **Prof. Niloy J. Mitra**

University College London, Virtual Env. And Computer Graphics  
n.mitra@cs.ucl.ac.uk

### **Prof. Christian Theobalt**

Head of research group Graphics, Vision & Video at Max Planck Institute for Informatics  
theobalt@mpi-inf.mpg.de

### **Dr. Duygu Ceylan**

Senior Research Scientist, Adobe Research  
duygu.ceylan@gmail.com