CONTACT INFO

Name: **Yixin Hu**
Email: yixin.hu@nyu.edu
Website: https://cs.nyu.edu/~yixinhu/

EDUCATION

New York University, USA — 2016.09 - 2022.01
Ph.D., Computer Science.
Research direction: Computer Graphics, Geometry Processing.
GPA: 3.94/4.0

Zhejiang University, China — 2012.09 - 2016.07
Bachelor of Engineering, Computer Science
GPA: 3.99/4.0 (90.42/100), Rank: 3/174

WORK EXPERIENCE

Full-time (2021 - now):

Pixel Labs, Tencent America, New York — 2021.10 - Now
Senior Graphics Researcher

Internship & part-time (2016 - 2021):

Future Reality Lab, Facebook Research, Redmond — 2020.05 - 2020.08
Research Intern, working with Yujia Chen and Michael Goesele.

Creative Intelligence Lab, Adobe Research, San Francisco — 2019.06 - 2019.08
Research Intern, working with Qingnan Zhou.

nTopology Inc., New York — 2018.05 - 2018.07
Summer Intern

New York University, New York — 2018.01 - 2018.05
Teaching Assistant, Computer Graphics CSCI-GA.2270-001

Creative Intelligence Lab, Adobe Research, San Francisco — 2017.05 - 2017.08
Research Intern, working with Qingnan Zhou.

The University of Hong Kong, Hong Kong — 2015.07 - 2015.09
Research Intern, working with Prof. Wenping Wang.

PUBLICATIONS

1. **Bijective and Coarse High-Order Tetrahedral Meshes**
   Zhongshi Jiang, Ziyi Zhang, **Yixin Hu**, Teseo Schneider, Denis Zorin, Daniele Panozzo.
   ACM Transactions on Graphics (SIGGRAPH 2021).

2. **Fast Tetrahedral Meshing in the Wild**
   Yixin Hu, Teseo Schneider, Bolun Wang, Denis Zorin, Daniele Panozzo.
   ACM Transactions on Graphics (SIGGRAPH 2020).

3. **Exact and Efficient Polyhedral Envelope Containment Check**
   Bolun Wang, Teseo Schneider, **Yixin Hu**, Marco Attene, Daniele Panozzo.
   ACM Transactions on Graphics (SIGGRAPH 2020).

4. **A Large Scale Comparison of Tetrahedral and Hexahedral Elements for Finite Element Analysis**
   Teseo Schneider, **Yixin Hu**, Xifeng Gao, Jeremie Dumas, Denis Zorin, Daniele

Panozzo.
ACM Transactions on Graphics 2022.

5. **TriWild: Robust Triangulation with Curve Constraints**
Yixin Hu, Teseo Schneider, Xifeng Gao, Qingnan Zhou, Alec Jacobson, Denis Zorin, Daniele Panozzo.
ACM Transactions on Graphics (SIGGRAPH 2019).

6. **Decoupling Simulation Accuracy from Mesh Quality**
Teseo Schneider, **Yixin Hu**, Jérémie Dumas, Xifeng Gao, Daniele Panozzo, Denis Zorin.
ACM Transactions on Graphics (SIGGRAPH Asia 2018).

7. **Tetrahedral Meshing in the Wild**
Yixin Hu, Qingnan Zhou, Xifeng Gao, Alec Jacobson, Denis Zorin, Daniele Panozzo.
ACM Transactions on Graphics (SIGGRAPH 2018).

AWARDS

PhD (2016 - 2022):

Sandra Bleistein Prize
Courant Institute of Mathematical Sciences, New York University, 2021

Adobe Research Fellowship
Adobe Systems Inc., 2019

Jacob T. Schwartz Ph.D. Fellowship
New York University, 2019

MacCracken Fellowship
New York University, 2016

Undergraduate (2012 - 2016):

Outstanding Graduates Honor
Zhejiang Province Department of Education, 2016

CCF Outstanding Student Award (100 winners per year)
China Computer Federation (CCF), 2016

Outstanding Graduates Honor
Zhejiang University, 2016

Research & Innovation First-Class Scholarship
Zhejiang University, 2015

Meritorious Winner
Mathematical Contest in Modeling (MCM), 2015

Excellent Student Honor
Zhejiang University, 2013 - 2015

The First-Class Scholarship (Top 3%)
Zhejiang University, 2013 - 2014

National Scholarship (Top 2%)
China Ministry of Education, 2013

REVIEW EXPERIENCE

ACM Transactions on Graphics 2019, 2020

ACM SIGGRAPH Asia 2020

IEEE Transactions on Visualization and Computer Graphics 2020

Eurographics 2020, 2021, 2022

Computer & Graphics 2018, 2019, 2021

Computer Aided Geometric Design 2021, 2022

INVITED TALKS

WildMeshing: Triangulation and Tetrahedralization in the Wild 2021
Computer Graphics Group, Columbia University

Fast Tetrahedral Meshing in the Wild 2021
Workshop, Department of Engineering, University of Cambridge

Fast Tetrahedral Meshing in the Wild 2020
Toronto Geometry Colloquium, University of Toronto

WildMeshing: Triangulation and Tetrahedralization in the Wild 2019
Geometric Data Processing Group, MIT

TriWild: Robust Triangulation with Curve Constraints 2019
GAMES: Graphics And Mixed Environment Seminar, China Computer Federation

Tetrahedral Meshing in the Wild 2018
GAMES: Graphics And Mixed Environment Seminar, China Computer Federation

Tetrahedral Meshing in the Wild 2018
The Dynamic Graphics Project lab Graphics Seminar, University of Toronto