

## Yixin Hu

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<b>CONTACT INFO</b>	<b>Name:</b> Yixin Hu <b>Email:</b> yixinhu.yh@gmail.com <b>Homepage:</b> <a href="https://yixin-hu.github.io/">https://yixin-hu.github.io/</a> <b>Open-source Projects:</b> <a href="https://github.com/Yixin-Hu">https://github.com/Yixin-Hu</a>	
<b>EDUCATION</b>	<b>New York University, USA</b> <i>Ph.D., Computer Science.</i> <b>Research direction:</b> Computer Graphics, Geometry Processing. GPA: 3.94/4.0	2016.09 - 2022.01
	<b>Zhejiang University, China</b> <i>Bachelor of Engineering, Computer Science</i> GPA: 3.99/4.0 (90.42/100), Rank: 3/174	2012.09 - 2016.07
<b>WORK EXPERIENCE</b>	<b>Pixel Lab, Tencent America, New York</b> Senior Graphics Researcher	2021.10 - Now
	<b>New York University, New York</b> Research Assistant	2017.09 - 2021.09
	<b>Future Reality Lab, Facebook Research, Redmond</b> Research Intern, working with Yujia Chen and Michael Goesele.	2020.05 - 2020.08
	<b>Creative Intelligence Lab, Adobe Research, San Francisco</b> Research Intern, working with Qingnan Zhou.	2019.06 - 2019.08
	<b>nTopology Inc., New York</b> Summer Intern	2018.05 - 2018.07
	<b>New York University, New York</b> Teaching Assistant, Computer Graphics CSCI-GA.2270-001	2018.01 - 2018.05
	<b>Creative Intelligence Lab, Adobe Research, San Francisco</b> Research Intern, working with Qingnan Zhou.	2017.05 - 2017.08
	<b>The University of Hong Kong, Hong Kong</b> Research Intern, working with Prof. Wenping Wang.	2015.07 - 2015.09
<b>PUBLICATIONS</b>	<ol style="list-style-type: none"><li><b>Declarative Specification for Unstructured Mesh Editing Algorithms</b> Zhongshi Jiang, Jiacheng Dai, <b>Yixin Hu</b>, Yunfan Zhou, Jeremie Dumas, Qingnan Zhou, Gurkirat Singh Bajwa, Denis Zorin, Daniele Panozzo, Teseo Schneider. ACM Transaction on Graphics (SIGGRAPH Asia 2022).</li><li><b>Bijjective and Coarse High-Order Tetrahedral Meshes</b> Zhongshi Jiang, Ziyi Zhang, <b>Yixin Hu</b>, Teseo Schneider, Denis Zorin, Daniele Panozzo. ACM Transactions on Graphics (SIGGRAPH 2021).</li><li><b>Fast Tetrahedral Meshing in the Wild</b> <b>Yixin Hu</b>, Teseo Schneider, Bolun Wang, Denis Zorin, Daniele Panozzo. ACM Transactions on Graphics (SIGGRAPH 2020).</li><li><b>Exact and Efficient Polyhedral Envelope Containment Check</b> Bolun Wang, Teseo Schneider, <b>Yixin Hu</b>, Marco Attene, Daniele Panozzo. ACM Transactions on Graphics (SIGGRAPH 2020).</li></ol>	

5. **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 (presented at SIGGRAPH 2022).
6. **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).
7. **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).
8. **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

	<b>National Scholarship</b> (Top 2%) China Ministry of Education, 2013	
<b>REVIEW EXPERIENCE</b>	<b>ACM Transactions on Graphics</b>	2019, 2020
	<b>ACM SIGGRAPH</b>	2022
	<b>ACM SIGGRAPH Asia</b>	2020, 2022
	<b>IEEE Transactions on Visualization and Computer Graphics</b>	2020
	<b>Eurographics</b>	2020, 2021, 2022
	<b>Computer &amp; Graphics</b>	2018, 2019, 2021
	<b>Computer Aided Geometric Design</b>	2021, 2022
<b>INVITED TALKS</b>	<b>WildMeshing: Triangulation and Tetrahedralization in the Wild</b> Computer Graphics Group, Columbia University	2021
	<b>Fast Tetrahedral Meshing in the Wild</b> Workshop, Department of Engineering, University of Cambridge	2021
	<b>Fast Tetrahedral Meshing in the Wild</b> Toronto Geometry Colloquium, University of Toronto	2020
	<b>WildMeshing: Triangulation and Tetrahedralization in the Wild</b> Geometric Data Processing Group, MIT	2019
	<b>TriWild: Robust Triangulation with Curve Constraints</b> GAMES: Graphics And Mixed Environment Seminar, China Computer Federation	2019
	<b>Tetrahedral Meshing in the Wild</b> GAMES: Graphics And Mixed Environment Seminar, China Computer Federation	2018
	<b>Tetrahedral Meshing in the Wild</b> The Dynamic Graphics Project lab Graphics Seminar, University of Toronto	2018