#### Yixin Hu

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CONTACT INFO	Name: Yixin Hu Email: yixinhu.yh@gmail.com Homepage: https://yixin-hu.github.io/ Open-source Projects: https://github.com/Yixin-Hu https://github.com/wildmeshing	
EDUCATION	New York University, USA Ph.D., Computer Science. Research direction: Computer Graphics, Geometry Processing. GPA: 3.94/4.0	2016.09 - 2022.01
	<b>Zhejiang University</b> , China Bachelor of Engineering, Computer Science GPA: 3.99/4.0 (90.42/100), Rank: 3/174	2012.09 - 2016.07
WORK EXPERIENCE	Pixel Lab, Tencent America, New York Senior Graphics Researcher	2021.10 - Now
	New York University, New York Research Assistant	2017.09 - 2021.09
	Future Reality Lab, Facebook Research, Redmond Research Intern, working with Yujia Chen and Michael Goesele.	2020.05 - 2020.08
	Creative Intelligence Lab, Adobe Research, San Francisco Research Intern, working with Qingnan Zhou.	2019.06 - 2019.08
	nTopology Inc., New York Summer Intern	2018.05 - 2018.07
	New York University, New York Teaching Assistant, Computer Graphics CSCI-GA.2270-001	2018.01 - 2018.05
	Creative Intelligence Lab, Adobe Research, San Francisco Research Intern, working with Qingnan Zhou.	2017.05 - 2017.08

#### **PUBLICATIONS**

1. Declarative Specification for Unstructured Mesh Editing Algorithms Zhongshi Jiang, Jiacheng Dai, Yixin Hu, Yunfan Zhou, Jeremie Dumas, Qingnan Zhou, Gurkirat Singh Bajwa, Denis Zorin, Daniele Panozzo, Teseo Schneider. ACM Transaction on Graphics (SIGGRAPH Asia 2022).

2015.07 - 2015.09

## 2. 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).

# 3. Fast Tetrahedral Meshing in the Wild

The University of Hong Kong, Hong Kong

Research Intern, working with Prof. Wenping Wang.

**Yixin Hu**, Teseo Schneider, Bolun Wang, Denis Zorin, Daniele Panozzo. ACM Transactions on Graphics (SIGGRAPH 2020).

## 4. Exact and Efficient Polyhedral Envelope Containment Check

Bolun Wang, Teseo Schneider, **Yixin Hu**, Marco Attene, Daniele Panozzo. ACM Transactions on Graphics (SIGGRAPH 2020).

# 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):

#### Janet Fabri Prize

Courant Institute of Mathematical Sciences, New York University, 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	Mathematical	Contest in	Modeling	(MCM),	2015
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**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
EAFERIENCE	ACM SIGGRAPH	2022, 2023
	ACM SIGGRAPH Asia	2020, 2022
	IEEE Transactions on Visualization and Computer Graphics	2020, 2022
	Eurographics 2020.	, 2021, 2022
	Computer & Graphics 2018.	, 2019, 2021
	Computer Aided Geometric Design	2021, 2022
INVITED TALKS	BroadLeaf: Real-Time Cinematic Rendering of Large-Scale Fore Core Concepts Talk at GDC 2023	sts 2023
	WildMeshing: Unstructured Mesh Generation and Repairing in the Wild Keynote talk IEEE at UEMCON 2022	2022
	WildMeshing: Triangulation and Tetrahedralization in the Wild Computer Graphics Group, Columbia University	2021
	Fast Tetrahedral Meshing in the Wild Workshop, Department of Engineering, University of Cambridge	2021
	Fast Tetrahedral Meshing in the Wild Toronto Geometry Colloquium, University of Toronto	2020
	WildMeshing: Triangulation and Tetrahedralization in the Wild Geometric Data Processing Group, MIT	2019
	TriWild: Robust Triangulation with Curve Constraints GAMES: Graphics And Mixed Environment Seminar, China Computer Fe	2019 ederation
	Tetrahedral Meshing in the Wild GAMES: Graphics And Mixed Environment Seminar, China Computer Fe	2018 ederation
	Tetrahedral Meshing in the Wild The Dynamic Graphics Project lab Graphics Seminar, University of Toron	2018 nto