Zhongshi Jiang

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Research Interests

Shape Modeling, Computer Graphics and Scientific Computing.

Education

Courant Institute, New York University Ph.D. Candidate, *Computer Science* (expected 2022)

- Dissertation Topic: Synergistic Geometry Processing in Robust Mesh Generation and Scientific Computing.
- Advisor: Prof. Daniele Panozzo

University of Science and Technology of China B.Sc. in *Mathematics and Applied Mathematics*, June 2016

Publications

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

Zhongshi Jiang, Teseo Schneider, Daniele Panozzo and Denis Zorin. *Bijective Projection in a Shell*, ACM Transaction on Graphics (Proc. SIGGRAPH Asia), 2020

Davi Colli Tozoni, Jeremie Dumas, **Zhongshi Jiang**, Julian Panetta, Daniele Panozzo and Denis Zorin. *A Low-Parametric Rhombic Microstructure Family for Irregular Lattices*, ACM Transaction on Graphics (Proc. SIGGRAPH), 2020

Hanxiao Shen, **Zhongshi Jiang**, Denis Zorin, and Daniele Panozzo. *Progressive Embedding*, ACM Transaction on Graphics (Proc. SIGGRAPH), 2019

Sebastian Koch, Albert Matveev, **Zhongshi Jiang**, Francis Williams, Alexey Artemov, Evgeny Burnaev, Marc Alexa, Denis Zorin and Daniele Panozzo. *A Big CAD Model Dataset For Geometric Deep Learning*, Conference on Computer Vision and Pattern Recognition (CVPR), 2019

Ilya Kostrikov, **Zhongshi Jiang**, Daniele Panozzo, Denis Zorin, and Joan Bruna. *Surface Networks*, Conference on Computer Vision and Pattern Recognition (CVPR), 2018

Zhongshi Jiang, Scott Schaefer, and Daniele Panozzo. *Simplicial Complex Augmentation Framework for Bijective Maps*, ACM Transaction on Graphics (Proc. SIGGRAPH Asia), 2017

Teaching Experience

Lecturer, *Geometric Computing with Python*, Symposium on Geometry Processing Graduate School, Online, 2021
Lecturer, *Easy Toolbox for Geometry Processing*, Chinagraph Conference Course, Xiamen, 2020
Teaching Assistant, *Geometric Modeling and Computer Graphics*, New York University, 2017 - 2021

Guest Lecturer, *Introduction to Computer Graphics*, New York University, 2018

Honors and Awards

2020 **Jacob T. Schwartz PhD Fellowship**
New York University Department of Computer Science

2019 **Dataset Award**
Eurographics/ACM Symposium on Geometry Processing

2018 **Adobe Research Fellowship**
Adobe Inc.

2016 **Henry MacCracken Fellowship**
New York University Graduate School of Arts and Sciences

2011 **Musical Level 10 in Violin**
Chinese Musicians' Association

Professional Service

Program Committee	SIAM Conference on Geometric Design	2021
Program Committee	Graphics Replicability Stamp Initiative	2019 - 2021
Reviewer	PLOS ONE	2021
Reviewer	SIGGRAPH	2018
Reviewer	ACM Transactions on Graphics	2018 - 2021
Reviewer	Eurographics	2019
Reviewer	Computer Graphics Forum	2020

Employment

nTopology Inc. Geometry Software Intern, New York NY, 2021

Develop and implement algorithm to convert implicit surface models and triangle meshes to curved B-Rep surfaces. The development enables industrial CAD-based product lifecycle management system to incorporate structural optimizations.

Adobe Research, Research Scientist Intern, Seattle WA, 2017-2018

Work with Dr. Vladimir G. Kim to explore machine learning techniques for data-driven texture map segmentation.