

Siqi Wang

CONTACT INFO

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GitHub: <https://github.com/rachael-wang>

Google Scholar: <https://scholar.google.com/citations?user=mC4US5IAAAA&hl=en&oi=ao>

EDUCATION

New York University

Ph.D. in Computer Science

New York, USA

2019–Current

- Research Direction: Computer Graphics, Geometry Processing.
- Advisors: Daniele Panozzo, Denis Zorin. GPA: 3.90/4.0

Shanghai Jiao Tong University

Bachelor of Engineering in Electrical Engineering

Shanghai, CN

2015–2019

- Outstanding Graduates Honor of Shanghai

National University of Singapore

Exchange Program of 2017/18 SEM1

Singapore, SG

2017–2017

PUBLICATIONS

- [1] **Siqi Wang**, Chenxi Liu, Daniele Panozzo, Denis Zorin, and Alec Jacobson, “Bézier spline simplification using locally integrated error metrics”, *ACM SIGGRAPH Asia*, 2023.
- [2] Ruibo Liu, Qijia Shao, **Siqi Wang**, Christina Ru, Devin Balkcom, and Xia Zhou, *Computational fabrics for monitoring human joint motion*, US Patent App. 16/911,877, Dec. 2020.
- [3] Chelsea Tymms, **Siqi Wang**, and Denis Zorin, “Appearance-preserving tactile optimization”, *ACM Transactions on Graphics (TOG)*, vol. 39, no. 6, pp. 1–16, 2020.
- [4] Yuwei Xiao, Szeyu Chan, **Siqi Wang**, Bo Zhu, and Xubo Yang, “An adaptive staggered-tilted grid for incompressible flow simulation”, *ACM Transactions on Graphics (TOG)*, vol. 39, no. 6, pp. 1–15, 2020.
- [5] Ruibo Liu, Qijia Shao, **Siqi Wang**, Christina Ru, Devin Balkcom, and Xia Zhou, “Reconstructing human joint motion with computational fabrics”, *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)*, vol. 3, no. 1, pp. 1–26, 2019.

WORK EXPERIENCE

Adobe Research

Research Scientist Intern, Graphics (2D&3D), BIG Lab

CA, USA

May–Dec 2022

- Mentor: Alec Jacobson Manager: Wil Li
- Won the Code Quality Champion (Best Project in C++) in Adobe Code Quality Jam 2022
- Conducted research on (1) Bézier spline simplification (2) vector graphics liquify, resulting in a top-tier conference publication and a patent application.

TEACHING

- **Geometric Modeling** (CSCI-GA.3033-018) Spring 2021
Course Assistant at New York University (<https://github.com/danielepanozzo/gp>)
Topics include *surface reconstruction, mesh smoothing and optimization, mesh parametrization, mesh deformation and editing, skeletal animation and skinning, fabrication-aware modeling, etc.*
- **Machine Learning** (CSCI-GA.2565-001) Spring 2022
Grader at New York University (<https://rajeshhr.github.io/ml-2022/>)
Topics include *generalized linear models, graphical models, causal inference, reinforcement learning, etc.*

SKILLS

- **Programming languages:** C/C++, Python, MATLAB, JavaScript, SQL
- **Graphics Library:** Libigl, PolyFEM, ParaView, OpenGL, CGAL
- **Rendering Software:** Blender, Houdini
- **Machine Learning Library:** PyTorch

SCHOLARSHIPS AND AWARDS

- WiGRAPH (Women in Computer Graphics Research) Rising Star 2022 2022
- DeepMind Scholarship 2021
- MacCracken Fellowship (New York University) 2019
- Outstanding Graduates Honor of Shanghai 2019
- Hongyi Scholarship 2018
- Scholarship of the Temasek Foundation International Leadership Enrichment and Regional Networking Programme (TFI LEaRN) 2017
- First-class Scholarship of Lee Fushou Fund 2017
- Academic Excellence Scholarship, SJTU 2016–2018
- First Prize in the Undergraduate Mathematical Contest in Modeling of China 2016
- Mathematical Contest in Modeling, Honorable Mention 2018
- Award for Outstanding Student Cadres, SJTU 2016
- First Place in High School Students Mathematics Contest in China 2014

LEADERSHIP AND ACTIVITY

- Deputy President of the Associations' Union, SJTU 2017–2018
Organized varieties of activities for all the associations like SJTU Alumni Day
- Vice President of Microsoft Student Club, SJTU 2017–2018
Organized seminars, lectures and big events like Microsoft Penta Hackathon 2016
- Inbound Scholar of TFI LEaRN Programme, NUS 2017
Presented at TFI LEaRN Young Asian Leaders Forum