

# Ziqi Wang | Curriculum Vitae

BC346, EPFL – 1015 Lausanne – Switzerland

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## Education

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### EPFL

*PhD Candidate, Switzerland*

Geometric Computing Laboratory

School of Computer and Communication Sciences

Advisor: Prof.Dr.Mark Pauly (EPFL, Switzerland)

Co-Adviosr: Prof.Dr.Peng Song (SUTD, Singapore)

**Lausanne**

2017 - 2021.12(*Expected*)

### University of Science and Technology of China

*Bachelor, China*

Information & Computational Science

Department of Mathematics

Rank: 9/145 (Top 6%)

**Hefei**

2013 - 2017

## Publications

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- [1] **Ziqi Wang**, Peng Song, and Mark Pauly. Mocca: Modeling and optimizing cone-joints for complex assemblies. *ACM Transactions on Graphics (SIGGRAPH 2021)*, conditionally accepted.
- [2] **Ziqi Wang**, Peng Song, and Mark Pauly. State of the art on computational design of assemblies with rigid parts. *Computer Graphics Forum (Proc. of Eurographics)*, 2021.
- [3] Yang Xu, **Ziqi Wang**, Siyu Gong, and Yong Chen. Reusable support for additive manufacturing. *Additive Manufacturing*, 39:101840, 2021.
- [4] **Ziqi Wang**, Peng Song, Florin Isvoranu, and Mark Pauly. Design and structural optimization of topological interlocking assemblies. *ACM Transactions on Graphics (SIGGRAPH Asia 2019)*, 38(6), 2019.
- [5] **Ziqi Wang**, Peng Song, and Mark Pauly. DESIA: A general framework for designing interlocking assemblies. *ACM Transactions on Graphics (SIGGRAPH Asia 2018)*, 37(6), 2018. Article No. 191.
- [6] **Ziqi Wang**, Jack Szu-Shen Chen, Jimin Joy, and Hsi-Yung Feng. Machined sharp edge restoration for triangle mesh workpiece models derived from grid-based machining simulation. *Computer-Aided Design and Applications*, 15(6):905–915, 2018.
- [7] Peng Song, Bailin Deng, **Ziqi Wang**, Zhichao Dong, Wei Li, Chi-Wing Fu, and Ligang Liu. CofiFab: Coarse-to-fine fabrication of large 3d objects. *ACM Transactions on Graphics (SIGGRAPH 2016)*, 35(4), 2016. Article 45.

## Professional experience

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### EPFL

*Teaching Assistant, Switzerland*

MATH-111(E) Linear Algebra (Fall 2020)

CS-341 Introduction to Computer Graphics (Spring 2019, 2020)

CS-446 Digital 3D Geometry Processing (Fall 2018, 2019)

**Lausanne**  
*Sep 2017 - present*

### University of Southern California

*Academic Visiting, USA*

Host: Prof.Dr.Yong Chen

Project for designing supports-free 3D FDM printer.

**Los Angeles**  
*2017 Spring*

### The University of British Columbia

*Research Assistant, Canada*

Host: Prof.Dr.Hsi-Yung Feng

Worked on topics in CNC machining simulation.

**Vancouver**  
*2016 Summer*

## Talks

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*DESIA: A General Framework for Designing Interlocking Assemblies (with Peng Song)* 2018.12  
ACM SIGGRAPH Asia

*Design and Structural Optimization of Topological Interlocking Assemblies* 2019.12  
ACM SIGGRAPH Asia

*Computational Assembly for Fabrication: Shape Optimization* 2021.3  
Computational Fabrication Seminar  
Invited by Peng Song

*State of the Art on Computational Design of Assemblies with Rigid Parts* 2021.5  
Eurographics State of The Art Report

## Professional service

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- o Reviewer, TVCG
- o Reviewer, Computer Aided Geometric Design

## Professional skills

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**Programming:** C/C++, Python, C#

**Software:** Rhino/Grasshopper

**Language:** Chinese(native), English(fluent), Japanese(beginner)

## Honors

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**2016:** The Baogang Scholarship, top 5%

**2015:** USTC Outstanding Student Scholarship(Grade 1), top 10%