

Yefan Zhi

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PhD Fellow in Architecture

Polyhedral Structures Laboratory, University of Pennsylvania

Education

Doctor of Philosophy - PhD, Architecture, [University of Pennsylvania](#) Philadelphia, PA, US Jul 2023 - Present

Master of Science in Design - MSD, Architecture, [University of Pennsylvania](#) Philadelphia, PA, US Aug 2021 - Aug 2022

Bachelor of Architecture - BArch, Architecture, [Tsinghua University](#) Beijing, China Aug 2016 - Jun 2021

Bachelor of Arts - BA, Sociology, [Tsinghua University](#) Beijing, China Aug 2016 - Jun 2020

Experience

Polyhedral Structures Laboratory, [University of Pennsylvania](#) Philadelphia, PA, US

- PhD Fellow, Full-Time

Jul 2023 - Present

- Research Assistant, Full-Time

Sep 2022 - Jun 2023

People's Architecture Office Beijing, China

- Research Intern, Full-Time

Jul 2019 - Sep 2019

Publications - Journal Papers

Research on the Villagers' Behavior Characteristics in Rural Area - Analysis Using Spatio-Temporal Data from Wi-Fi and Surveillance Video

Yefan Zhi, Ziyu Huang, Weixin Huang

Urban, Environment, Design (UED) 2023 in Chinese, on Cover

Publications - Conference Papers

Local Optimization of Self-Supporting Shell Structures in 3D Printing: a Skeleton Method

Yefan Zhi, Hua Chai, Teng Teng, Masoud Akbarzadeh

International Association for Shell and Spatial Structures (IASS) Annual Symposia 2023 Melbourne, Australia

Continuous Multi-Filament 3D Printing for Tension-Compression Structure Components

Teng Teng, Yefan Zhi, Kun-Hao Yu, Shu Yang, Masoud Akbarzadeh

International Association for Shell and Spatial Structures (IASS) Annual Symposia 2023 Melbourne, Australia

Publications - Theses

A Wi-Fi and Video Data-Based Study on Spatial-Temporal Characteristics of Rural Space Behavior

Yefan Zhi, Advised by Weixin Huang

Bachelor of Architecture thesis 2021, Tsinghua University Beijing, China, in Chinese

Forming Norms in a Small Community: a Sociological Study of Birdwatching

Yefan Zhi, Advised by Yue Du

Bachelor of Arts in Sociology thesis 2020, Tsinghua University Beijing, China, in Chinese

Software

Ovenbird, A cross-scale shell printing slicer and optimizer

Sep 2022 - Present

Yefan Zhi, Teng Teng, Masoud Akbarzadeh

Exhibitions

- Advanced Research Projects Agency–Energy (ARPA-E) Energy Innovation Summit 2023** *Washington, DC, US* Apr 2023
- Technology showcase, Part of University of Pennsylvania
- Association for Computer Aided Design in Architecture (ACADIA) Conference 2022** *Philadelphia, PA, US* Oct 2022
- Faculty research exhibition, Part of Polyhedral Structures Laboratory
- Student work exhibition, Part of Master of Science in Design program
- Weitzman School Year End Show 2022, University of Pennsylvania** *Philadelphia, PA, US* May 2022
- Student work exhibition, Part of Master of Science in Design program