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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

Master of Science in Design - MSD, Architecture, University of Pennsylvania Philadelphia, PA, US

Bachelor of Architecture - BArch, Architecture, Tsinghua University Beijing, China

Aug 2016 - Jun 2021

Aug 2016 - Jun 2020

Experience

Polyhedral Structures Laboratory, University of Pennsylvania Philadelphia, PA, US

PhD Fellow, Full-Time
 Research Assistant, Full-Time
 Jul 2023 - Present
 Sep 2022 - Jun 2023

People's Architecture Office Beijing, China

- Research Intern, Full-Time Jul 2019 - Sep 2019

Journal Articles (Peer-reviewed)

[J1] 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

Conference Presentations (Peer-reviewed)

[C3] Diamanti: 3D-Printed, Post-tensioned Concrete Canopy
Masoud Akbarzadeh, Hua Chai, Yefan Zhi, Maximilian E, Ororbia, Te

Masoud Akbarzadeh, Hua Chai, *Yefan Zhi*, Maximilian E. Ororbia, Teng Teng, Mathias Bernhard, Damon Bolhassani, Fahimeh Yavartanoo, Javier Tapia, Karolina Pajak, Mylene Bernard, Leon Trousset, Paul Kassabian, Blaise Waligun FABRICATE 2024 *Copenhagen*, *Denmark*

[C2] 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

[C1] 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

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 *Yefan Zhi*, Teng Teng, Masoud Akbarzadeh

Sep 2022 - Present

Exhibitions

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