

Yuan Liao

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Education

University of Illinois at Urbana-Champaign (UIUC), Illinois, USA Ph.D. student of Architecture, Building Science	Aug. 2018–Present
University of Illinois at Urbana-Champaign, Illinois, USA Master of Architecture, GPA: 3.85	Aug. 2015–May 2018
China Academy of Art, Shanghai, China Bachelor of Arts in Architecture and Environmental Design	Sep. 2010–Jul. 2014

Work and Practice Experience

Teaching Assistant, UIUC, Champaign, IL ARCH 536: Planning and Design of Structural Systems (Fall 2020, 2019) <ul style="list-style-type: none">• Taught in a Lab section for around 25 graduate students• Guided students for their research papers and structural projects• Assisted with the lecture materials• Prepared assignments and graded homework ARCH 435: Structural Systems and Construction Methods (Spring 2021, 2020) <ul style="list-style-type: none">• Taught in the Lab section of 19 undergraduate students• Guided students for their case studies and structural projects• Assisted with the lecture materials• Prepared assignments and graded homework	Aug. 2019–Present
Research Assistant with Dr. Sudarshan Krishnan <ul style="list-style-type: none">• Researched on deployable and adaptive structures• Prepared digital structural models of deployable structures• Assisted with the grant proposal titled "Integrated Design of Lightweight Rapidly Deployable Disaster-Relief Shelters" [awarded by the UIUC Research Board]	Aug. 2017–Jun. 2018
Illinois School of Architecture Fabrication Shops, Champaign, IL Student worker <ul style="list-style-type: none">• Laser cutter labs• Print labs	Aug. 2018-Jan. 2019
Illinois Fire Service Institute Library, Champaign, IL Graduate assistant of the Head Director <ul style="list-style-type: none">• Assisted in the library management and international scholar exchange programs• Did the graphic design for posters and yearbooks• Translated materials between Mandarin Chinese and English	Apr. 2017–Mar. 2020
UIUC Housing, Ikenberry Dining Hall, Champaign, IL	Feb. 2016–Mar. 2017

Student worker

- Food services, customer services and disability services

Shandong Guotai Architectural Design Company, Jinan

Jul. 2014–May 2015

Assistant architectural designer

- Projects: Renovation of Jinan Sports Training Center
Office building #1 design in Weifang High-tech Park
- Assisted in interior design, created architectural graphics and digital models

“Design Camp of Eight Universities in 2013”, Taipei

Nov. 2013

- Designed a geriatrics facility as a group project
- Presented our design to students and faculty from other universities

Publications and Academic Experience

Journal Articles

Liao, Yuan and Krishnan, Sudarshan. “Deployable Polyhedra using Trissor Units”. [under review] Oct. 2020

Krishnan, Sudarshan and Liao, Yuan. "Geometric Design of Deployable Spatial Structures Made of Three-Dimensional Angulated Members." *Journal of Architectural Engineering* 26.3 (2020): 04020029. Doi: 10.1061/(ASCE)AE.1943-5568.0000416. Jan. 2020

Conference Papers

Liao, Yuan. "Geometric Design of Deployable Antenna Frame Using Hyperboloid Scissor Structure." *Earth and Space 2021, ASCE*. Apr. 21-23, 2021, 1047-1058. Doi:10.1061/9780784483374.097 Apr. 2021

Krishnan, Sudarshan and Liao, Yuan. “Integrating Shelter Design and Disaster Education in Architectural Curriculum.” *The Annual Conference of American Society for Engineering Education (ASEE) 2019*, Tampa, Florida, June 15 - 19, 2019. Mar. 2019

Liao, Yuan and Krishnan, Sudarshan. “Kinematic and Geometric Design of Curvilinear Grid Structures.” *The International Association for Shell and Spatial Structures Symposium IASS2017*, Hamburg, Germany, September 25-29, 2017. Jun. 2017

Conference Presentations

Liao, Yuan. "Geometric Design of Deployable Antenna Frame Using Hyperboloid Scissor Structure." *Earth and Space 2021, ASCE*. Apr. 21-23, 2021. [2nd Prize of the Student Paper Competition.] Apr. 2021

Liao, Yuan (PRESENTER) and Krishnan, Sudarshan. “Kinematic and Geometric Design of Curvilinear Grid Structures.” *The International Association for Shell and Spatial Structures Symposium IASS2017*, Hamburg, Germany, September 25-29, 2017. Sep. 2017

Honors and Awards

Runner-up of the Best Student Paper Competition <i>Awarded by the 2021 Earth and Space Conference, the American Society of Civil Engineers (ASCE)</i>	Apr. 2021
2020 Supplemental Summer Block Grant <i>Awarded \$2,222 by UIUC Graduate College</i>	May 2020
Creative & Performing Arts Fellowship <i>Awarded \$4,200 by The College of Fine and Applied Arts (FAA), UIUC</i>	Jan. 2020
University Fellowship <i>Awarded \$1,044 by UIUC</i>	Aug. 2019
2019 Conference Travel Award <i>Awarded \$500 by UIUC Graduate College</i>	Mar. 2019
2018 SARAs National Design Award <i>Awarded by the Society of American Registered Architects (SARAs)</i>	Sep. 2018
3rd Place of The Chicago Award in Architecture Student Competition <i>Awarded \$300 by American Institute of Architects (AIA)</i>	Jun. 2018
Gertrude Lempp Kerbis Fellowship for Architectural Research <i>Awarded \$20,000 by UIUC</i>	Apr. 2018
2nd Prize of The Image of Research, Graduate Research Competition <i>Awarded \$200 by UIUC Graduate College</i>	Mar. 2018
2nd Place of the Graduate Design Excellence Award, Fall 2017, UIUC	Dec. 2017
2nd Place of the Graduate Design Excellence Award, Spring 2017, UIUC	Jun. 2017
Nomination for the Graduate Design Excellence Award, Spring 2016, UIUC	May 2016
Nomination for the Earl Prize, Fall 2015, UIUC	Dec. 2015
Innovation Scholarship <i>Awarded ¥1,000 by China Academy of Art</i>	Oct. 2013
Silver Medal of 2013 Chinese Architectural Art “Young Designers Prize”	Sep. 2013
Outstanding member, Student Union of China Academy of Art	Dec. 2012

Skills

High Proficiency: AutoCAD, Adobe Photoshop, InDesign, Sketch up, Rhinoceros, Grasshopper, Wolfram Mathematica
Familiarity: Illustrator, 3D Max, SAP2000, MATLAB, Python