

Design Researcher based in Philadelphia, PA, US

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Education

- 2022 Master of Science in Design, Advanced Architectural Design University of Pennsylvania, Philadelphia, PA, US
Advised by Hyojin Kwon, Masoud Akbarzadeh, Na Wei
- 2021 Bachelor of Architecture Tsinghua University, Beijing, China
Advised by Weixin Huang
- 2020 Bachelor of Arts in Sociology Tsinghua University, Beijing, China
Advised by Yue Du

Research Interests

Lightweight Structure, Deployable Structure, Computational Geometry, Robotic Fabrication, Parametric Design, Artificial Intelligence, Machine Learning, Sociology, Animals and Society

Professional Experience

- 2022- Research Assistant, Polyhedral Structures Laboratory, University of Pennsylvania
Focus: 3D Printed High-Performance Carbon-Absorbing Concrete Structures Design and Fabrication Research
- 2019 Design Research Intern, People's Architecture Office, Beijing, China
Focus: STEAM Education Environment Design

Course and Project Experience

University of Pennsylvania

- 2022 Robotic 3D Printed Ceramics Design and Fabrication Research, Leader, Advised by Matias del Campo and Na Wei
- 2022 Waste-Reduced Lightweight Structure with Composite Material Design Research, Co-production, Advised by Masoud Akbarzadeh
- 2022 A Parametric ETFE Print Pattern Customization Kit for Natural Lighting Control, Leader, Advised by Laia Mogas-Soldevila
- 2021 Deployable Tensegrity Design Research, Leader, Advised by Mohamad Alkhayer

Tsinghua University

- 2021 A Wi-Fi and Video Data-Based Study on Spatial-Temporal Characteristics of Rural Space Behavior, Bachelor of Architecture Dissertation, Advised by Weixin Huang
- 2020 Forming Norms in a Small Community: a Sociological Study of Birdwatching, Bachelor of Arts in Sociology Dissertation, Advised by Yue Du
- 2019 Weaving Structure and Interactive Lighting Design, Leader, Advised by Weixin Huang
- 2017-19 Chinese Vernacular Architecture Research, Member, Advised by Hong Zhang
- 2017 Tennis Ball Picking Robot with Mecanum Wheels, Leader, Advised by Zhifang Liang

Independent

- 2021-22 Python and Grasshopper Workshop, Instructor
- 2021- Grasshopper Plug-in "Blackbird", Developer

Student and Volunteer Work

- 2017-19 Technology Director, Student Architecture and Art Association, Tsinghua University
- 2017-19 Director, School of Architecture Student Social Practice Team, Tsinghua University
- 2018-19 President, Student Wildlifer Association, Tsinghua University
- 2017-21 Birdwatching Teacher, Beijing Feiyu Volunteers, Beijing, China

Awards

- 2019 Student Work Prize, School of Architecture, Tsinghua University
- 2019 Second Place, 18th Beijing Universities Birdwatching Race, China Birdwatching Society
- 2018 Second Place, 17th Beijing Universities Birdwatching Race, China Birdwatching Society
- 2015 First Prize, Chinese National Physics Olympiad, Zhejiang Division, Chinese Physical Society
- 2015 Second Prize, Chinese National Mathematics Olympiad, Zhejiang Division, Chinese Mathematical Society
- 2015 Second Prize, Chinese National Olympiad in Informatics, Zhejiang Division, China Computer Federation

Languages

English: IELTS 8.0, Chinese: Native, French: Beginner

Softwares

Programming and Data Science: C++, C#, Python, Ruby, Visual Basic, HTML5, CSS, R, Stata, LaTeX
Microcontroller: Arduino, Raspberry Pi
Modeling: Rhino, Grasshopper, Maya, SketchUp, AutoCAD, Fusion 360
Media Production: Photoshop, Illustrator, InDesign, Lightroom, Premiere Pro