

ZHIHAN TAO, MLA, Ph.D.

301 W Curtis Rd, Apt 4-202, Savoy, IL61874 • Telephone: 9792132779 • E-Mail: zhihan@illinois.edu

CURRICULUM VITAE

ZHIHAN TAO, MLA, Ph.D.

EDUCATION

| | |
|--|--------|
| Doctor of Philosophy in Urban Planning & Regional Science Texas A&M University, College Station, TX | 2023.8 |
| Master of Landscape Architecture Texas A&M University, College Station, TX | 2018.5 |
| Bachelor of Landscape Architecture Hainan University, Haikou, China | 2014.7 |

ACADEMIC & PROFESSIONAL EXPERIENCE

| | |
|--|-------------------|
| Assistant Professor Department of Landscape Architecture, University of Illinois Urbana-Champaign | From 2024.8 |
| Lecturer Department of Landscape Architecture and Urban Planning, Texas A&M University | 2023.8 – 2024.8 |
| Trainee Community Engagement Core, Texas A&M Superfund Research Center | 2019.9 - 2024.8 |
| Teaching Assistant Department of Landscape Architecture and Urban Planning, Texas A&M University | 2018.9 – 2023.8 |
| Research Assistant Landscape Architecture Foundation (LAF) Case Study Investigation (CSI) of Houston Arboretum and Nature Center, Phase 1, Houston, Texas | 2022.04 – 2022.09 |
| Designer Bridgestone Bike & Trail System, Houston, Texas | 2019.10 – 2021.1 |
| Editorial Assistant Landscape Research Record 9 & 10, CELA | 2019 & 2020 |
| Intern Researcher Texas A&M Transportation Institute, College Station, Texas | 2017.05-2017.08 |
| Graduate Assistant Department of Landscape Architecture and Urban Planning, Texas A&M University | 2015.9 – 2018.5 |

ZHIHAN TAO, MLA, Ph.D.

301 W Curtis Rd, Apt 4-202, Savoy, IL61874 • Telephone: 9792132779 • E-Mail: zhihan@illinois.edu

NGO Volunteer

2014.09-2015.04

Kadoorie Conservation China, Haikou, Hainan Province, China

TEACHING EXPERIENCE, UIUC

As an instructor:

LA 533: Community Planning & Design (Lecture, Studio & Lab, 5 credit hours)

1 Time

Fall 2024

- Urban Design Studio
- Local Community Engagement
- Suitability Model
- Online Teaching Material Management (Canvas platform)

LA 342: Site Engineering (Lecture & Lab, 5 credit hours)

1 Time

Fall 2024

- Advanced Theories in Landscape Architecture Site Engineering
- Professional Landscape Architecture Documents Making
- Stormwater Management Techniques
- Low Impact Development Design Application

TEACHING EXPERIENCE, TAMU

As an Instructor:

URPN 493 902: URSC Capstone Course (Lecture, Studio & Lab, 5 credit hours)

1 Time

Spring 2024

- Urban Design Studio
- Local Community Engagement
- GLO's Homeowner Assistance Program in Houston
- Online Teaching Material Management (Canvas platform)

LAND 101 500: Introduction to Landscape Architecture & Practice (Lecture, 1 credit hours)

1 Time

Spring 2024

- Introduction to Landscape Architecture
- Different Aspects of Landscape Architecture
- Online Teaching Material Management (Canvas platform)

LAND 240/700 History of Landscape Architecture (Online Lecture & Lab, 3 credit hours)

1 Time

Fall 2023

- History of Landscape Architecture
- Online Teaching Material Management (Canvas platform)

URPN 220 500 PLAN 624 600: Digital Communication (Lecture & Lab, 3 credit hours)

1 Time

ZHIHAN TAO, MLA, Ph.D.

301 W Curtis Rd, Apt 4-202, Savoy, IL61874 • Telephone: 9792132779 • E-Mail: zhihan@illinois.edu

Fall 2023

- Digital Communication
- Photoshop, Illustrator, AutoCAD, SketchUp, AI Assisted Rendering, and InDesign Tutorial
- Online Teaching Material Management (Canvas platform)

URPN 361 500: Urban Issues (Lecture, 3 credit hours)

1 Time

Fall 2023

- History of Urban Developments
- Issues in Cities

LAND 212 501-502: Landscape Design II

1 Time

Spring 2023

- 3 Site Design Projects
- Introduction to Theories in Landscape Architecture Design
- Photoshop & Lumion Tutorials and Workshops

As a Teaching Assistant:

LAND 602 LAND ARCH DES THY APP II, Landscape Design Theory (Studio, 5 credit hours)

2 Times

Spring 2019, Spring 2020

- Introduction to Theories in Landscape Architecture Design and Urban Planning
- Landscape Designing and Planning Projects at A City Scale and A Campus scale
- Photoshop & GIS Tutorials and Workshops

LAND 231 & 612: LANDSCAPE CONSTRUCTION I (Lecture & Lab 4 credit hours)

2 Times

Fall 2021, Fall 2022

- Introduction to Theories in Landscape Architecture Construction
- Practice of Professional Landscape Architecture Construction Documents
- Application of Landscape Architecture Construction Theory in Design

LAND 232/501&502: LANDSCAPE CONSTRUCTION II

2 Times

Spring 2021, Spring 2021

- Advanced Theories in Landscape Architecture Construction
- Professional Landscape Architecture Documents Making
- Stormwater Management Techniques

LAND 240/700 History of Landscape Architecture (Online Lecture & Lab, 3 credit hours)

9 Times

Fall 2018; Spring Summer Fall 2019; Spring Summer Fall 2020; Spring Summer 2021

- History of Landscape Architecture
- Online Teaching Material Management (eCampus platform & Canvas platform)

PEER-REVIEWED PUBLICATIONS & PRESENTATIONS

PEER-REVIEWED PUBLICATIONS:

- Newman, G., George, B., Li, D., Tao, Z., Yu, S., & Lee, R. T.-(2018). **Online learning in landscape architecture: assessing issues, preferences, and student needs in design-related online education.** *Landscape Journal*, 37(2), 41-63. 2.
- Tao, Z., Newman, G., Arnold, M., Li, M. H., & Kim, r. H. (2019). **The Living Green Infrastructure Lab: Advancing Interdisciplinary Teaching and Experiential Learning in Landscape Architecture Pedagogy.** *Landscape research record*, 8, 75.
- Prybutok, S., Newman, G., Atoba, K., Sansom, G., & Tao, Z. (2021). **Combining Co\$ ting Nature and Suitability Modeling to Identify High Flood Risk Areas in Need of Nature-Based Services.** *Land*, 10(8), 853.
- Newman, G., Li, D., Tao, Z., & Zhu, R. (2021). **Recent Trends in LA-Based Research: A Topic Analysis of CELA Abstract Content.** *Landscape Journal*, 39(2), 51-73.
- Zhu, R., Tao, Z., Newman, G., Counts, M., Meyer, M., Offer, E., ... & Maly, E. (2020). **Growth and Shrinkage Pre and Post Tsunami In Fukushima Prefecture, Japan.** *Landscape research record*, 9, 132.
- Song, Y., Lee, C., Tao, Z., Lee, R. J., Newman, G., Ding, Y., ... & Sohn, W. (2023). **COVID-19 and Campus Users: A Longitudinal and Place-Based Study of University Mobilities in Texas.** *Sustainable Cities and Society*, 96, 104656.
- Lee, R. J., Tao, Z., Prybutok, S., Jang, S., Dalaijamts, C., Chiu, W. A., & Newman, G. (2023). **Unseen Risk: Mapping Contamination Hazards to Enhance Risk Perception in Galena Park, Texas.** *Climate Risk Management*, 100532.
- Asri, A. K., Newman, G. D., Tao, Z., Zhu, R., Chen, H. L., Lung, S. C. C., & Wu, C. D. (2024). **What is the spatiotemporal pattern of benzene concentration spread over susceptible area surrounding the Hartman Park community, Houston, Texas?.** *Journal of Hazardous Materials*, 474, 134666.

PUBLISHED BOOK CHAPTERS:

- Tao, Z., Zhu, R., & Newman, G. D. (2022). **Global Strategies for Flood and Sea Level Rise Mitigation.** In *Landscape Architecture for Sea Level Rise* (pp. 24-37). Routledge.
- Tao, Z., & Newman, G. (2024). **Assessing Stormwater Runoff Contamination with Comparison Sampling.** In *Contemporary Landscape Performance Methods and Techniques* (pp. 60-67). Routledge.
- Zhu, R., Tao, Z., & Newman, G. (2025). **Evaluating Revenue Impacts with Financial Reports.** In *Contemporary Landscape Performance Methods and Techniques* (pp. 215-220). Routledge.
- Zhu, R., Tao, Z., & Newman, G. **Assessing Property Value through a Pre-Post Evaluation.** In *Contemporary Landscape Performance Methods and Techniques* (pp. 209-214). Routledge.
- Zhu, R., Tao, Z., & Newman, G. (2024). **Assessing Material Reuse from Construction Documents.** In *Contemporary Landscape Performance Methods and Techniques* (pp. 137-144). Routledge.
- Newman, G., Zhu, R., Barnes, M., Li, D., & Tao, Z. **Moving Forward: Future Needs and Directions for Landscape Performance.** In *Contemporary Landscape Performance Methods and Techniques* (pp. 235-244). Routledge.
- Barnes, M., Zhu, R., Newman, G., & Tao, Z. (2025). **Defining and Explaining Landscape Performance.** In *Contemporary Landscape Performance Methods and Techniques* (pp. 3-11). Routledge.

PEER-REVIEWED PRESENTATIONS:

- **Aggie B.L.U.E. Print Laboratories: A Multi-Disciplinary Teaching and Service Learning Opportunity** - Poster Presentation, the 2018 Annual Conference of the Council of Educators in Landscape Architecture (CELA) at Virginia Tech, Blacksburg, Virginia, March 21-24, 2018.
- **The Living Green Infrastructure Lab: Advancing Interdisciplinary Teaching and Experiential Learning in Landscape Architecture Pedagogy** - Oral Presentation, the 2019 Annual Conference of the Council of Educators in Landscape Architecture (CELA) at UC Davis, Davis, California, March 6-9, 2019.
- **Detoxifying Neighborhood Contaminants through Green Infrastructure Planning: A NIEHS Translational Research Framework Approach** - Poster Presentation, the 2019 NIEHS Superfund Research Program Annual Meeting, Seattle, Washington, November 18-20, 2019.
- **Assessing the Relationship between Parkland Characteristics and Human Wellbeing: An Analysis of Resident Mortality and Parkland Characteristics in Large US cities** - Oral Presentation, CELA Annual Conference, (Accepted but Conference Canceled)
- **Integrating Prediction Models and Urban Analytics into Scenario-Based Resilient Design** - Poster Presentation, the 2020 NIEHS SRP Annual Meeting, Virtually, December 14 - 16, 2020
- **The Effects of Raingardens on Water Quality** - Poster Presentation, CELA Annual Conference, Virtually, March 17-20, 2021
- **Integrating Prediction Models and Urban Analytics into Scenario-Based Resilient Design** - Poster Presentation, Disaster PRIMR 2021 at Texas A&M University, College Station, January 31 - February 4, 2021
- **Growth And Shrinkage Pre And Post Tsunami In Fukushima Prefecture, Japan**, Oral Presentation, SRP 2021 May Monthly Meeting, College Station, May 14th, 2021
- **Design for the Depopulating City: Regeneration in Johnstown** - Oral Presentation, Oral Presentation, The Third International Geodesign Collaboration virtual meeting, June 18-19, 2021
- **The Effects of Green Infrastructure on Commerce Flood Resilience: Analyzing Visitation Rates of Commercial Activity after Floods in Houston, TX**, Oral Presentation, CELA Annual Conference, Santa Ana Pueblo, March 16-19, 2022
- **Mobility studies in the era of big data: Toward the future of environment-behavior research in landscape architecture and beyond**, Panelist, CELA Annual Conference, Santa Ana Pueblo, March 16-19, 2022
- **Assessing the Impact of Green Infrastructure on Community Recovery From Tropical Storm Imelda in Houston, Texas**, Oral Presentation, CELA Annual Conference, San Antonio, March 15-18, 2023
- **Analyzing the Role of Green Space in Business Recovery Following Tropical Storm Imelda in Beaumont and Port Arthur, Texas**, Oral Presentation, CELA Annual Conference, St. Louis, March 20-23, 2024 (Accepted)

Under Review:

- Newman, D., McGuire, M., Tao, Z., Zhu, R. (2024). **Perspective Essay: Towards Increasing Faculty Licensure in Landscape Architecture Education**. Landscape Journal, Paper #: 122023-00047

AWARDS & HONORS

AWARDS:

ASLA Student Awards for Excellence, Analysis and Masterplan Category, ASLA Texas Chapter 2017
Visualizing Vitality – Texas A&M University Campus Design

Best Rain Garden Design, LAND 602, Landscape Architecture & Urban Planning Department, Texas A&M University 2016
Aggie B.L.U.E. Print Lab Raingarden Design

HONORS:

Gene Schrickel Jr. '50 Endowed Scholarship in Landscape Architecture, Department of Landscape Architecture and Urban Planning, Texas A&M University, 2017

GRANTS & FELLOWSHIPS

Aggie Green Fund 2018 (PI: Dr. Galen Newman)

Submitted/Funded

The Aggie Green Fund Advisory Committee

The Aggie Green Fund is a grant-making organization for sustainability projects at Texas A&M College Station campus, Texas A&M Higher Education Center at McAllen, and Texas A&M University School of Law. It offers Major Grants on an annual basis and Micro-Grants on a rolling basis to empower students, faculty, and staff to take action and bring creative sustainability improvements to our campus.

Landscape Architecture Foundation (LAF) Case Study Investigation (CSI) of Houston Arboretum and Nature Center, Phase 1, Houston, Texas (PI: Dr. Galen Newman, Dr. Dongying Li)

Submitted/Funded

Landscape Architecture Foundation

This investigation was conducted as part of the Landscape Architecture Foundation's 2022 Case Study Investigation (CSI) program. CSI matches faculty-student research teams with design practitioners to document the benefits of exemplary high-performing landscape projects. Teams develop methods to quantify environmental, social, and economic benefits and produce Case Study Briefs for LAF's Landscape Performance Series.

Quick Response Research Mitigation Matters Award (PI: Dr. Ivis Garcia, Dr. Zhihan Tao)

Submitted/Funded

Natural Hazards Center

Our research, supported by the Natural Hazard Center's 2024 Mitigation Matters Research Award, aims to enhance understanding of homeowner decisions regarding construction elevation in flood-prone areas. Specifically, we will gather geographical data on homeowners participating in the Texas General Land Office (GLO) Homeowner Assistance Program (HAP). Through interviews and surveys, we will explore the physical condition of their properties, their resilience to climate change, and the factors influencing their decisions against opting for elevation in their constructions, despite its cost-free nature.

Understanding the motivations behind these decisions is vital, especially considering the potential benefits of elevation in mitigating flood risks. The insights gained from this study will inform the decision-making process for future elevated home programs and other flood mitigation strategies, offering valuable guidance in our ongoing efforts to adapt and respond to climate change challenges.

ZHIHAN TAO, MLA, Ph.D.

301 W Curtis Rd, Apt 4-202, Savoy, IL61874 • Telephone: 9792132779 • E-Mail: zhihan@illinois.edu

SERVICE ACTIVITIES

COMMUNITY SERVICE LEARNING & ENGAGEMENT:

Researcher and Designer

2018

Sunnyside Community Analysis & Renovation Projects, Houston, Texas

Trainee/Contributor

2022.05 - Present

Engaging the Galena Park Community to Build Resilience to Excess Industrial Pollutant Releases after Hurricanes and Floods in Greater Houston, Texas

UNIVERSITY SERVICES:

ASLA Student Chapter President/MLA Representative

2017.01-2018.03

Department of Landscape Architecture & Urban Planning, Texas A&M University