ZHIHAN TAO, MLA, Ph.D.
1601 Holleman Dri, Apt 103, College Station, TX77840 • Telephone: 9792132779 • E-Mail: tabris2tabris@tamu.edu

CURRICULUM VITAE
ZHIHAN TAO, MLA, Ph.D.

EDUCATION

Doctor of Philosophy in Urban Planning & Regional Science 2023.8
Texas A&M University, College Station, TX

Master of Landscape Architecture 2018.5
Texas A&M University, College Station, TX

Bachelor of Landscape Architecture 2014.7
Hainan University, Haikou, China

ACADEMIC & PROFESSIONAL EXPERIENCE

Lecturer 2023.8 – Present
Department of Landscape Architecture and Urban Planning, Texas A&M University

Trainee 2019.9 - Present
Community Engagement Core, Texas A&M Superfund Research Center

Teaching Assistant 2018.9 – 2023.8
Department of Landscape Architecture and Urban Planning, Texas A&M University

Research Assistant 2022.04 – 2022.09
Landscape Architecture Foundation (LAF) Case Study Investigation (CSI) of Houston Arboretum and Nature Center, Phase 1, Houston, Texas

Designer 2019.10 – 2021.1
Bridgestone Bike & Trail System, Houston, Texas

Editorial Assistant 2019 & 2020
Landscape Research Record 9 & 10, CELA

Intern Researcher 2017.05-2017.08
Texas A&M Transportation Institute, College Station, Texas

Graduate Assistant 2015.9 – 2018.5
Department of Landscape Architecture and Urban Planning, Texas A&M University

NGO Volunteer 2014.09-2015.04
Kadoorie Conservation China, Haikou, Hainan Province, China

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TEACHING EXPERIENCE, TAMU

As an Instructor:

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 (eCampus platform & Canvas platform)

URPN 220 500 PLAN 624 600: Digital Communication (Lecture & Lab, 3 credit hours) 1 Time

Fall 2023

– Digital Communication
– Photoshop, Illustrator, AutoCAD, SketchUp, AI Assisted Rendering, and InDesign Tutorial

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

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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.

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.

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.

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- **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, **J**anuary 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, Tune 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

In-Progress Research: Dissertation Discoveries and Findings

- Tao, Z., Newman, G., Song, Y (2024**). Analyzing Park's Effects on Economic Resilience for Natural Disasters – A Systematic Literature Review**
- Tao, Z., Newman, G., Song, Y., Yu, S., Zou, Lei. (2024**). Assessing Parks' Effects on Economic Resilience in Port Arthur and Beaumont, TX for Tropical Storm Imelda**
- Tao, Z., Newman, G., Song, Y., Yu, S., Zou, Lei. (2024**). Comparative Analysis of Business Recovery in Socially Vulnerable Communities vs. Other Areas: A Case Study of Port Arthur and Beaumont, TX, Post Tropical Storm Imelda**
- Tao, Z., Newman, G., Song, Y., Yu, S., Zou, Lei. (2024**). Assessing Green Infrastructure's Role in Flood Disaster Resilience: Evaluating Economic and Ecological Benefits of Park Features in Community Recovery from Tropical Storm Imelda**

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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.

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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