

Tao Wu



Areas of Research

landscape design and planning, sustainable site design, climate adaptation and resilience planning

Contact Information

Office location:

Office phone: (+86)13951720510

Email address: wutao2003@njau.edu.cn

Research Interests

creative landscape design and planning; wetland restoration and eco-tourism; green infrastructure in urban sustainable development; resilience planning under climate change; geodesign

My research and practice cover diversified landscape design and planning at different scale that range from urban park, residential area and municipal environment to waterfront, wetlands and ecological restoration. The projects may vary at the scale and scope, but the goal is same, to preserve local and regional natural process and cultural heritage in a creative and sustainable way. My current research interests focus on resilience planning under the background of climate change, and incorporating green infrastructure into urban system to make city more resilient to natural and human disturbance.

1. Creative landscape design and planning

Part of landscape design and planning projects as follow:

Landscape Design of Cognitive Garden at Avery Point, Groton, Connecticut, USA, 2019
Master Plan of Talcott Mountain Science Center & Academy, Avon, Connecticut, USA, 2018

Landscape and Rain Garden Design of Mansfield Community School of the Arts, Storrs, Connecticut, USA, 2018

Master Plan of Siyang Botanic Park, Siyang, Jiangsu, 2015

Landscape Design of Nanjing Zijing Commercial Complex Square, Nanjing, 2013

Restoration and Daylighting of Bao River, Siyang, Jiangsu, 2012
Waterfront Planning and Design of Sishui River, Siyang, Jiangsu, 2012
Landscape Regeneration of Xipu Park, Lianyungang, Shandong, 2011
Siyang Olympic Sport Park Planning, Siyang, Jiangsu, 2011
Nanjing Shuiximen Street Landscape Design in Hexi District, Nanjing, 2004
Planning and Design of Suzhou Xintiandi Wetland Park, Suzhou, Jiangsu, 2004

2. Wetland restoration and eco-tourism planning

Cooperating with Nanjing University Wetland Ecology and Ecological Engineering program, I engaged in the research and planning of ecological restoration and eco-tourism of Sihong Water Resort in the demonstration district of Sihong Hongze Lake Nature Reserve, Beijing Yanqing wetland ecological restoration, Hainan Lingao Xinying wetland planning.

3. Green infrastructure in urban sustainable development

Under the fast urban development and city sprawling, social-ecological system is facing unprecedented challenge, incorporating green infrastructure in urban system instead of gray infrastructure is a necessary path and goal for sustainable development. The related study and planning projects include Hartford promise zone vacant lot greening and regeneration in Connecticut, Providence central park and green infrastructure network exploratory planning in Rhode Island.

4. Resilience planning and Geodesign

Global warming and climate change is a complex problem threatening many facets of urban development and needs interdisciplinary cooperation to cope with. From the landscape architecture perspective, incorporating green infrastructure and exercising resilient thinking are essential for climate adaptation and resilience building. The related research and projects includes Coastal Vulnerability Analysis and Resilience Planning of the Counties of Fairfield and New Haven; Pilot resilience planning of New London; Bridgeport Coastal Resilience Planning and Sustainable Development of Bridgeport in Connecticut; and the research of Coastal Land Use Change (CLUC) under the pressure of Climate Change and Human Activities and the implications for Urban Planning. Geodesign is a set of concepts and methods used to involve all stakeholders and various professions in collaboratively designing and realizing the optimal solution for spatial challenges. Above projects and research are all based on geodesign process.

Education Background

Bachelor: Nanjing Forestry University

Master: Nanjing Forestry University

Ph.D. Candidate: University of Connecticut

Work experience

Lecturer, College of Horticulture, Nanjing Agricultural University, 2002-

Visiting Scholar, University of Connecticut, 2016-2017

Honors and Awards

CELA Fellows Best Poster Award, American Council of Education in Landscape Architecture (2018)

Excellent Design of Urban Construction and Development, Jiangsu Department of Housing and Urban Development (2016)

Excellent Award for Graduate Curriculum Design of Plant Application and Technology, Nanjing Agriculture University (2013)

Excellent Class Award & Excellent Advisor, Nanjing Agriculture University (2013)

1st Place Award, LOGO Design Competition for the College of Horticulture, Nanjing Agriculture University (2012)

Excellent Lecturer, Nanjing Agriculture University (2008)

Selected Publication

Peter Miniutti; **Tao Wu**; Mariana Fragomeni; Multi-stakeholder Communication and Public Engagement in Coastal Hazard Mitigation and Resilience Planning. Proceedings of Council of Educators in Landscape Architecture 2019 Annual Conference, 2019:83-91.

Tao Wu; Kristin Schwab; Prospect: Beyond Survival- Refugee Resilience Planning for Europe & Beyond. Proceedings of Council of Educators in Landscape Architecture 2018 Annual Conference, 2018: 619-631.

Tao Wu; Study on Strategies of Urban River Environment Improving Based on the Concept of Ecological Infrastructure. Proceedings of the 2015 International Conference on Industrial Technology and Management Science, 2015:190-194.

Tao Wu, Jijiang Ding. Ecological Restoration and Planning for Disturbed Wetland in Tourist Region. China Forestry Science and Technology, 2013,27(5):137-141.

Tao Wu; Wetland Landscape Reconstruction and Wetland Ecotourism Planning Based on Ecological Restoration Philosophy. The 13th International Symposium of Landscape Architecture Korea, China and Japan, Seoul, Korea, 2012:79-83.

Tao Wu, Jijiang Ding. Research on Ecological Rehabilitation and Landscape Planning of Wetland Resort. Advanced Material Research, 2012(598):268-272.

Tao Wu. Wetland Landscape Reconstruction and Wetland Ecotourism Planning Based on Ecological Restoration Philosophy. The 13th International Symposium of Landscape Architecture Korea, China and Japan, 2012:79-83.

Tao Wu, Binzhang Yang. Professional English for Landscape Architecture. Chongqing University Press, 2012.

Tao Wu. On Eco-tourism Planning in View of Canada Capilano Suspension Bridge Park. Chinese Landscape Architecture. 2009,25 (6):34-38.

Reference