

TIANCHEN HUANG

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EDUCATION

Texas A&M University, School of Architecture Aug. 2022 - Present

Ph.D. in Urban & Regional Sciences

University of Illinois at Urbana-Champaign, College of Fine & Applied Arts Aug. 2018 – Dec. 2021

Master of Landscape Architecture

Anhui Agricultural University, School of Forestry & Landscape Architecture Sep. 2013 – Jun. 2018

Bachelor of Engineering in Urban and Rural Planning

RELEVANT EXPERIENCE

Texas A&M University

Urban Data Science Lab

Aug. 2022 - Present

Position: Graduate Research Assistant

Texas Transportation Institute

Aug. 2022 - Present

Position: Graduate Research Assistant

University of Illinois at Urbana-Champaign

May. 2021- Aug. 2022

The Smart Energy Design Assistance Center (SEDAC)

Position: Graduate Research Assistant

Projects:

ComEd Elevator Project

- Gathered and analyzed elevator data for 26 counties in Illinois in ArcGIS and made interactive maps to visualize them online

Ameren Workforce Development Project

- Crawled data about job posts from websites such as Glassdoor and Indeed by Python to improve the working efficiency and updated the database via routine data crawling

SEDAC Moodle Site Development Project

- Maintained the SDEAC website by HTML, designed and sent SEDAC newsletters

University of Illinois at Urbana-Champaign

Nov. 2020 – Aug. 2022

Land Use Evolution and Impact Assessment Modeling (LEAM) laboratory

Position: Graduate Research Assistant

Projects:

Illinois DNR Carbon Sequestration and Protected Areas

- Modeled the carbon sequestration value of the previous and current land cover
- Applied Python to simulate the scenarios of landcover and carbon sequestration conversion
- Made interactive maps and website to visualize the results and scenarios

Disparity in Multi-mode Accessibility to Green Spaces in Chicago Analysis

- Did literature review part on park accessibility by multiple travel modes
- Discussed and contributed to the methodology and the paper structure

Text Mining and Analysis of Parks in Chicago based on people's reviews in Google Maps

- Applied data mining methods to crawl detailed park information from Google Maps

University of Illinois at Urbana-Champaign, Landscape Architecture Department

Jan. - May 2021

Position: Graduate Teaching Assistant

- Assisted in teaching LA 234 Site Design Studio
- Gave lectures on ArcGIS and 3D modeling
- Helped students solve problems on spatial analysis and technical issues at class and office hours
- Helped the instructor to prepare course materials and carried out site analyses
- Graded students' assignments

University of Illinois at Urbana-Champaign, Landscape Architecture Department

Aug. - Dec. 2020

Position: Graduate Teaching Assistant

- Assisted in teaching LA 335 Community & Open Space Design
- Gave lectures on graphic skills and ArcGIS
- Helped students solve problems on spatial analysis and modeling, etc.
- Helped the instructor to prepare course materials and carried out site analyses
- Graded students' assignments

Belt Collins International Co., Ltd.

May. - Aug. 2019

Position: Intern

Projects:

- Hefei Liantou Central Bookstore Landscape Design
- Wuxi Langshi Residential Community Planning

MASTER'S THESIS

The Spatial Accessibility of Attractive Parks in Chicago and a Proposed Planning Support System to Evaluate the Accessibility of Points of Interest

PUBLICATIONS

Zhang, Y; Huang, T.C; Zhu Y.F. Analyze the feature of urban design of Northern Song, DongJing based on the painting *Riverside Scene at Qingming festival*. *Anhui Architecture*. 2017 215,45-52 (in Chinese)

SKILLS AND INTERESTS

Skills: Computational Urban Design, Geospatial AI & Machine Learning, Urban Informatics, Land Use and Environmental Planning, Spatial Analysis

Software: Python, HTML, R, ArcGIS, Adobe Dreamweaver, Tableau, AutoCAD, Photoshop, Rhino, Illustrator, InDesign, Microsoft Office

Languages: English, Mandarin Chinese