

Yuchi Su

 geopeper |  Yuchi Su |  a1050336@gmail.com

Urban data and spatial analysis researcher with a focus on GIS, mobility data, and human-scale urban systems. Experienced in mobility patterns analysis, spatial data cleaning, and translating complex datasets into interpretable insights for planning and policy contexts. Interested in research and applied projects that bridge urban data, spatial modeling, and real-world decision making.

EDUCATION

National Taiwan University, Taiwan B.A. in Geography Second Major: Public Administration, Department of Political Science <i>Relevant Course:</i> Cartography and GIS, Statistics, Machine Learning and Deep Learning, Spatial Analysis, WebGIS, Data Visualization, Transport Geography, AI and Land Use	Sep. 2022 – Jun. 2026 (Expected) Overall GPA: 4.07/4.3, Ranking: 4/72
Leiden University, The Netherlands Exchange Student	Feb. 2025 – Jun. 2025

WORK EXPERIENCE

Member, Taipei Youth Advisory Committee <i>Taipei City Government</i>	Jan. 2025 – Present Taipei, Taiwan
- Contribute to pedestrian-rights policy work within the Social Equity Working Group - Initiated a proposal to systematically review parking-space data, encouraging government agencies to open datasets and support further spatial analysis	
Summer Research Intern <i>Department of Urban Planning, The University of Hong Kong</i>	Jun. 2025 – Aug. 2025 Hong Kong SAR
- Conducted an independent research project, “Why the 15-Minute City Fails: Diagnosing Spatial Mismatch in High-Density Environments,” using Python, R, and QGIS - Analyzed over 440,000 GPS records and open datasets, applying spatial statistics and regression to evaluate mismatches between the 15-minute city model and actual behavior	
Member, NTU Transportation Committee / Campus Planning Group <i>National Taiwan University</i>	2023 – 2025 Taipei, Taiwan
- As a student representative and Vice President of NTU Student Association, contributed to campus improvements including bike-share station rebalancing, shuttle services, and nighttime lighting	

PROJECTS

Taipei Loading-Zone Planning Dashboard <i>3rd Place, AI x Smart City Data Competition, organized by the Ministry of Economic Affairs</i>	Oct. 2025 Taiwan
- Built a road-grid-based “loading-zone pressure model” integrating POI data, parking zone locations, hourly flows, and industry weights to quantify supply–demand gaps in Taipei commercial areas - Developed an interactive WebGIS dashboard for scenario simulation and planning support	
NTU Nighttime Lighting Visualization Map <i>Independent Project, NTU Student Association</i>	Nov. 2025 Taipei, Taiwan
- Created a custom iOS app with Swift/Xcode for brightness data collection, combining GPS tracking with manual measurements to build a campus nighttime light-environment dataset - Built a WebGIS integrating brightness data, light-pollution zones, and safe walking routes	

SKILLS

Programming Python (geopandas, scikit-learn, PyTorch), R, basic web (HTML/JavaScript), Swift
Software QGIS, ArcGIS Pro
Languages Chinese (native), English (fluent)