SHASHA TIAN

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RESEARCH INTEREST

Sustainable Human Settlement, Urban Resilience and Adaptation to Climate Change
Geo-spatial Data Management, Urban Informatics, Natural Language Processing

EDUCATION

M.Eng. in Urban Planning
Shanghai, China
Tongji University (**QS Ranking by Subject:** 13)   *Sept 2021 — Sept 2024*
- **GPA**: 4.36/5 (Top 25%)
- **Thesis**: Research on Planning Path of Low Carbon Village Construction—Taking three villages in Zhejiang as Examples

M.Sc. in Urban Planning and Policy Design
Milan, Italy
Polytechnic University of Milan (**QS Ranking by Subject:** 7)   *Sept 2022 — Oct 2023*
- **GPA**: 106/110
- **Thesis**: Low Carbon Village Planning Principles and Practice

B.Sc. in Human Geography and Urban-Rural Planning
Guangzhou, China
Sun Yat-sen University (**ARWU GRAS:** 19)   *Sept 2017 — June 2021*
- **GPA**: 3.86/5 (Top 25%)

RESEARCH EXPERIENCE

Research Fellow
Shanghai, China
AIGC Laboratory, Shanghai Planning and Design Institute Co., Ltd.   *Dec 2024 — Present*
- **Integrated Urban Planning:** Contributed to strategies for innovation-oriented mixed-use renewal around universities and Bund heritage urban design guidelines.
- **AI-Enhanced Research:** Supported LLM corpus curation, tourist spatio-temporal analysis via NLP, and Finalist Designs of Fuxing Island MetaCity Competition.

Graduate Student Research Assistant
Shanghai, China
Laboratory of High-Density Residential Ecology and Energy Conservation, Tongji University   *Sept 2021 — Sept 2024*
- **Indicator Development**: Constructed a rural human settlement evaluation system covering environment, infrastructure, and socio-economic dimensions.
- **Field Research:** Conducted in-depth interviews and analyzed implemented planning projects to extract actionable insights on governance mechanisms and low-carbon village development.
- **Comparative Case Studies:** Compared three villages through cross-case analysis, synthesizing success and failure factors to derive transferable planning insights.

Undergraduate Student Research Assistant
Guangzhou, China
Climate Change and Sustainable Environment Group, Sun Yat-sen University   *Sept 2018 — Feb 2019*
- **Climate Risk Mapping:** Visualized the spatiotemporal distribution of forest fires—an extreme climate hazard—using ArcGIS and automated data processing with Python.
Advanced Regression Analysis: Applied a Generalized Additive Model (GAM) to access biophysical and social--economic drivers of forest fire occurrence.

PUBLICATION

Shaojian Wang, **Shasha Tian**, et al. 2021. "<u>**Driving Factors and Carbon Transfer of Industrial Carbon Emissions in Guangdong Province under the Background of Industrial Transfer**</u>↗ ." Geographical Research 40, no. 09: 2606–2622. [In Chinese, CSSCI].

- **Overview:** Calculates CO_2 emissions of various industries at the prefecture level during 16 years, and explores the carbon leakage pattern under industrial transfer policies.
- **Personal Contribution:** Organized teamwork as research group leader(supervised by Prof. Shaojian Wang), utilized the material balance method for CO_2 emission calculations, and applied the structural decomposition model to assess the factors influencing emissions.

RESEARCH PROJECT

Assessment of the Impact of Environmental Regulation on Chinese Enterprises Abroad
- o **Overview:** Examines how Chinese enterprises expanding overseas confront ESG challenges under divergent international regulations, highlighting critical risks across industries, regions, and supply chains.
- o **Personal Contribution:** analyzed supply-chain risks, identified enablers and barriers for circular operations, and proposed recommendations integrating firm-level decisions with policy frameworks to support multi-stakeholder sustainable development.

Spatial Distribution Patterns and Influencing Factors of Land Price in Guangzhou
- o *Assessment of course "Urban Economics" (Score: 89/100)*
- o **Overview:** clarifies the spatial distribution characteristics of land price in Guangzhou and explores the influencing factors behind it.
- o **Personal Contribution:** analysed the effects of natural and social attributes with linear regression models, visualizes the spatial distribution and changing trend of land price.

Analysis of the Current Status of Long-distance Bus Passenger Transportation under the Impact of High-speed Rail
- o *Assessment of course "Urban Transportation" (Score: 91/100)*
- o **Overview:** explores advantages and disadvantages of long-distance buses under the influence of high-speed rail, and analyzes the preferences of passengers' travel modes.
- o **Personal Contribution:** scraped the schedule information of long-distance buses and high-speed train services with Python and calculated the influencing factors of the travel environment on passenger travel preferences through non-aggregated model.

Assessing the Regional Applicability of Land Rent Theory with Spatial Syntax Analysis
- o *Supported by National Undergraduate Training Program for Innovation and Entrepreneurship*
- o **Overview:** Explores the development core and internal structure of megalopolises, examining their degree of interconnection.
- o **Personal Contribution:** Managed data processing, including the calculation of accessibility using spatial syntax, and coupling degrees using correlation analysis.

PROFESSIONAL EXPERIENCE

Carbon Finance Researcher Intern　　　　　　　　　　　　　　　*Shanghai, China*
Industrial Bank (Fortune Global 500)　　　　　　　　　　　　　*Aug 2024 — Nov 2024*
- o **Carbon Accounting:** Collected and processed client activity data to calculate carbon emissions across Scopes 1, 2, and 3, in alignment with the GHG Protocol.
- o **Carbon Disclosure Support:** Assisted in preparing corporate carbon disclosure and ESG reports, ensuring consistency with IFRS Sustainability Disclosure Standards (ISSB).

Greenquantum Analyst Intern　　　　　　　　　　　　　　　　*Shanghai, China*
Deloitte (Big Four Accounting Firms)　　　　　　　　　　　　　*Jan 2024 — Mar 2024*
- o **Corporate Assessment:** Calculated corporate environmental performance scores using API-based data extraction, applying weighted indicator models and normalization methods for cross-firm comparison.
- o **Index Construction**: Developed a risk control indicator system using methods such as MCDA and PCA, and scenario-based stress testing to quantify exposure and resilience.

Industry Research Analyst Intern　　　　　　　　　　　　　　*Shanghai, China*
East China Architectural Design Institute　　　　　　　　　　*Nov 2021 — Jan 2022*
- o **Data crawling and processing:** Utilized python and SPSS to crawl and processed data for the analysis of land use, housing price, market competition, and transportation accessibility.
- o **Feasibility Study:** Conducted investment feasibility analysis by applying cost–benefit analysis (CBA). Incorporated social cost assessments and externality evaluation (e.g., gentrification risk, equity impacts) to provide comprehensive recommendations on project viability.

SKILLS

Math: *Linear algebra, Advanced Mathematics, Probability Statistics*
Software: *Arcgis, ENVI, Stable Diffusion, ComfyUI*
Coding: *C++, Python, Prolog*

LANGUAGE

English: *Fluent (IELTS 7.0)*
Mandarin: *Native*