JIE LI

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EDUCATION

Master of City Planning (Urban Design concentration),
University of Pennsylvania (Urban Design) (GPA: 3.94/4)   **Sep 2021—July 2023**

- Selected courses: Urban design; Public policy analytics (machine learning & data analytics using R); Site planning; Multi-modal transport.

Bachelor of Engineering in Urban Planning (Sociology minor)
Peking University (GPA: 3.78/4)   **Sept 2016—July 2021**

- Selected courses: Architectural design); Urban design; Principles of urban planning; GIS; Urban master planning; Transportation analysis, modelling, & planning.

SKILLS

GIS/Data	Skilled with GIS (ArcGIS Online/Pro & with R); decent with Remote Sensing processing (ENVI). Data analysis/visualization with R/Python/Excel, machine learning.
Design	Skilled with AutoCAD, Rhino, SketchUp, Adobe Suite, decent with V-Ray.
Planning	Engaging storytelling with informative visual expression; good report/memo/technical writing.
Office/other	Skilled with Microsoft Office Suite; knowledge of web design (HTML and CSS).
Transferrable	Quick learning; good reasoning (GRE 329); articulate presentation; good communication.

PROFESSIONAL EXPERIENCE

Turenscape Design (Architecture intern)   **Mar 2021—Apr 2021**

- Experimented with design proposal for museum using SketchUp and physical models.
- Innovated regarding analytic diagrams, sections, and plans used for presentations for the client.

Beijing Tsinghua Tongheng Planning & Design Institute (Planning intern)   **Sep 2020—Oct 2020**

- Incorporated census, satellite, and other sources to analyzed development and declines process of the industrial base; summarized best practices and patterns of industrial base renovations world-wide
- Formed chapters of report for renovation manual: existing conditions, opportunities, & revival mechanisms.

Guangzhou Urban Planning Institute (GZPI) (Planning intern)   **July 2020—Sept 2020**

- Researched & summarized 10+ cases of quantitative heritage conservation evaluation worldwide.
- Drafted quantitative heritage evaluation table for Guangzhou. Work approved by Vice President of the department.

PROJECTS

Design for an age with autonomous vehicles   **2022 (course practice)**

- Conceptualized what changes autonomous vehicles will bring to mobility and built form. In group, devised masterplan for Navy Yard, Philadelphia, as a forerunner of a vibrant and sustainable AV environment.
- Individually, designed gateway transit hub & office blocks for Navy Yard in the age of autonomous vehicles.

Predicting delays for NJ Transit   **2022 (course practice)**

- Devised a model to predict transit delays long ahead of schedule using R; Incorporated time lag & spatial autocorrelation; compared multiple models.
- 80% of delays detected with 70+% of them correct; mean error less than 2.7 min.
- Determined use case for model & wireframed app interface.

Beijing's: planning VS realizing the New Towns (research & design) 2018; 2020; 2021

- Processed satellite & census data; incorporated them in GIS and used spatial analytic algorithms to compare how built-up areas and economic hot zones, respectively, respond to planning. Aimed to inform effective planning and sustainable urban growth.
- Found that compared to built-up area expansion, the perfusion of economic hot zones behaved more like natural outflows of existing centers and less responsive to planning. Work presented at International Seminar on Urban Form (http://epubs.utah.edu/index.php/ISUF2020/article/view/4223); Concept design of a linear new town based on research.

Patient socialization in Fangcang quarantine hospitals (publication) 2020

- Conducted semi-structured interviews to learn patients' socialization in Fangcang shelter hospitals converted from public venues in COVID-19 pandemic; published in Indoor and Built Environment (IF = 1.9) (https://journals.sagepub.com/doi/10.1177/1420326X20973745)

ACTIVITIES & LEADERSHIP

Student publication of Peking University 2017—2019

- Chief Visual Editor of *Inside PKU*, the most prominent student magazine in China at the time.
- Responsible for visual production of magazine and of promotion items.

Survey for national land space master planning in Wuqing, Tianjin, China July 2019

- Investigated existing built forms for an entire township and registered them in GIS.
- Facilitated public participation by distributing questionnaires and conducting 30+ interviews.
- Drafted issues & opportunities for the township.