JIE LI

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EDUCATION

MCP, University of Pennsylvania (Urban Design concentration)   Sept 2021—July 2023
- Urban design (A+); Public policy analytics (machine learning & data analytics using R).

BE in Urban Planning, Peking University (GPA: 89/100)   Sept 2016—July 2021
- Architectural design (95); Urban design (95); Principles of urban planning (91 & 93); Principles in GIS (93); Urban master planning (91); Transportation analysis, modelling, & planning (89).

BL in Sociology (GPA: 90/100)   Sept 2017—July 2021
- Social statistics (93); Social survey & research (95); Chinese society (95); Economic sociology (91).

SKILLS

GIS   Skilled with GIS (both with ArcGIS and using R); Familiar with Remote Sensing processing (using ENVI).

Data   Data analysis and visualization R, Python, SPSS, SQL, and Excel; machine learning.

Design   Good at drawing (CAD), 3D modelling (Rhino/SU), rendering (V-Ray), graphic design (Ps/Ai), layout design (Id).

Other   Sufficient knowledge with Microsoft Office and other software; knowledge of web design (HTML and CSS). Reasoning and analytic writing skills (169 in Verbal Reasoning in GRE).

PROFESSIONAL WORK

Design for an age with autonomous vehicles   2022 (course practice)
- Analyzed what changes autonomous vehicles will bring to the built form; in group, devised masterplan for Navy Yard, Philadelphia, as a forerunner of AV environments.
- Individually, designed gateway & 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; incorporated time lag & spatial autocorrelation; compared multiple models. >70+% of delays detected and 70+% correct; mean error less than 2.7 minutes.
- Determined use case for model.

Beijing's: planning VS realizing the New Towns (RESEARCH AND DESIGN)   2018; 2020
- Used satellite images & census to compare how built-up areas and economic hot zones, respectively, respond to planning.
- Found that compared to built-up area expansion, the perfusion of economic hot zones is adherent to 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
- 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)

JOBS

Turenscape Design (INTERN)   Mar 2021—Apr 2020
- Involved in design proposal for museum in Taizhou, Zhejiang using physical models; drawing of analytic diagrams and renderings.

Beijing Tsinghua Tongheng Planning & Design Institute (INTERN)   Sept 2020—Oct 2020
- Regulatory planning of old industrial base renovation: Analyzed development and declines process of the industrial base; researched for practices and patterns of industrial base renovations world-wide. Formed a report approved by supervisor.

Guangzhou Urban Planning & Design Survey Research Institute (INTERN)   July 2020—Sept 2020
- Evaluation of heritage conservation in Guangzhou. Researched for heritage cases nation-wide and world-wide, drafted evaluation scale. Work approved by Vice President of the department.

ACTIVITIES

Student publication of Peking University   2017—2019
- Chief Visual Editor of *Inside PKU*, the most prominent student magazine in China at the time.

Survey for national land space planning in Wuqing, Tianjin, China   July 2019
- Investigated existing built form & facilitated public participation for the remaking of masterplan of Wuqing, China.