JIE LI

Philadelphia, PA | li.jie.urban@gmail.com | +1 (267) 271-6054
Portfolio: https://leejere.github.io/Portfolio-Jie-Li/
LinkedIn: https://www.linkedin.com/in/jielifj
GitHub: https://github.com/Leejere

EDUCATION

Master of City Planning, University of Pennsylvania (GPA: 3.94/4) **Sep 2021—May 2023**

- City planning, urban design, & urban analytics.

Bachelor's in Urban Planning, Peking University (GPA: 3.78/4) **Sept 2016—July 2021**

- Architectural/Urban design; city planning; GIS & data analysis; quantitative planning; transportation modeling & planning; infrastructure planning.

SKILLSET HIGHLIGHT

Planning & design

- GIS and design software, e.g., AutoCAD, SketchUp, Rhino, Adobe Creative Suite.

Analytics

- Analytics with R, Python, SQL, & Excel.
- Data visualization, interpretation, & reporting with R Markdown & web.

Web development

- Front-end development with HTML, CSS, and JavaScript; Node.js and database.

Visualization & branding

- Making graphically attractive story-telling infographics & branding material.

Transferrable

- Quick in learning, efficient & responsible, strong in reasoning, & articulate in presentation.

PREVIOUS EMPLOYMENT

Urban Analytics Intern, AECOM (Arlington, VA) **Sep 2022—Present**

- **Data analytics:** Produced a household typology study for Hartford, CT combining various clustering settings and planning knowledge. Wrote a report on 12 household types and their demographic characteristics and made interactive maps and charts.
- **Web development and data-oriented planning tool building:** Made web-apps for three cities' fee calculation using JavaScript. In addition, took over previous co-worker's scenario planning tool in R and Python and produced detailed documentation.

Urban Plan/Design Intern, AECOM (Dallas, TX) **May 2022—Aug 2021**

- **Procedural design:** Learned to work with CityEngine within 1 week and modeled two density scenarios, OH; in this way, produced high-quality scenario infographics at fast pace.
- **Active transportation:** Designed & modeled complete-street intersections for Austin's downtown transportation project.
- **Visualization & branding:** Created clear and visually appealing maps for different projects – e.g., tourism-oriented artistic "experience maps" for hunting reserves in KSA; maps to clearly communicate complex information for Austin's downtown transportation project; visually appealing publication to advocate for higher density for Columbus, OH.

PROJECTS

Mobiladelphia: Understanding Mobility of Philadelphia (GitHub) **2022 (In Progress)**

- Currently developing a web-app that allows users to filter trips by mode, purpose, origin, destination, time, etc., and displays the trips via map and dashboard. This answers questions like "Where do people come who walk to Chinatown for shopping in the afternoons come from" and is useful for planners.
- Used Heroku to deploy and an online PostgreSQL DB to host data.

Canvassers: Tool Used in Voter Canvassing (Page) **2022**

- Mobile-friendly web tool for voter canvassers that displays voters on the map and in a list. By click-selection, voter information is displayed to be viewed by the canvasser.
- The canvasser may modify voters' information and input notes regarding the canvassing, i.e., whether the voter is ready to vote and who they plan to vote for, and other notes.

Local-scale Stormwater Infrastructure Monitoring System **2022 (course practice)**

- Designed a smart stormwater inlet cover that monitors & communicates local-scale flooding to the community & city. Made prototype using Arduino. (Group of 3)
- Made clear & appealing diagrams to communicate the concept. Wireframed the corresponding app. (Self)

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 & 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.

ACTIVITIES & LEADERSHIP

Publication in Peking University **2017—2019**

- Chief Visual Editor of *Inside PKU*, 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.