Ruoran Lin

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PROFILE

A current second-year graduate student pursuing for Master of Science in urban planning program at GSAPP, Columbia University, and seeking for a full-time job opportunitie in urban data analytic and spatial analysis.

SKILLS

Spatial Analysis
ArcGIS *****
QGIS ****
GeoDA ****
ENVI ***

Programming
Python *****
JavaScript ****
C/ C++/ R ***

Statistic Analysis
Stata ****
SPSS ***

Database
SQL ****

Design
Adobe Suite *****
MO Suite *****
SketchUp ****
CAD ***

AWARDS

University of Waterloo
2016
Graduation with Distinction, Dean's Honors List
2015
Chinese Universities Entrance Scholarship

Wuhan University
2014
The First Prize Scholarship
NavInfo Scholarship
2013
National Scholarship

LANGUAGES

English ****
Mandarin *****

EDUCATION

Columbia University | Major: Urban Planning | Concentration: Urban Analytics
MS Urban Planning Candidate | New York, NY | Sep 2016 – Present

University of Waterloo | Major: Honors Geomatics | Minor: Computer Science
Bachelor of Environmental Studies | Waterloo, Canada | Sep 2014 – Jun 2016

Wuhan University | Major: Gemoinfomatics
Bachelor of Engineering | Wuhan, China | Sep 2012 – Jun 2016

EXPERIENCE

Digital Social Science Center, Columbia University
Spatial Research Intern | New York, NY | Jan 2017 – Present
- Categorized NYC open dataset info and checked dataset updates by web scraping and managed automatic data download using Python/ VBA scripts
- Led the mapping workshops and tutorials and helped students with basic interactive mapping skills using online tools (Carto, Leaflet, Mapbox, Open Street Map)

Columbia University
Teaching Assistant | New York, NY | Sep 2016 – Dec 2017
- Played a TA role in multiple courses - GIS and Urban Studies (Barnard College), Conflict Urbanism (GSAPP), and Fundamentals of Digital Urban Design (GSAPP)
- Led technical tutorials (ArcGIS and Adobe Suite), arranged field trip, invited guest speakers, and evaluated student assignments

Philip Habib and Associates
GIS Intern | New York, NY | Oct – Dec 2016
- Assisted staff in technical support, including data processing and spatial analyses
- Participated in multiple planning and transportation consulting projects, including site investigation and project background research

The Bureau of Urban and Rural Planning
Planning Intern | Fuzhou, China | Jul – Aug 2016
- Assisted in various planning projects by data analysis, evaluating proposals, and coordinating stakeholder engagement
- Facilitated in internal project coordination, member connection, and meeting minutes

RESEARCH

Data-Mining China: Urban Villages (UV) | Shenzhen, China | Jul – Dec 2017
- Built academic, journalism, and social media database for UV using web scraping
- Tracked UV evolution, development trends, and social impacts using Natural Language Processing and machine learning models
- Exhibited in the Bi-city Biennale of Urbanism/ Architecture in Shenzhen

M86 Select Bus Service (SBS) | New York, NY | Oct – Dec 2016
- Collected primary data through on-site observations and distributed questionnaires
- Evaluated M86 performance before and after SBS conversion by Stata and Python coding and presented recommendations through BRT comparison

Examining Walkability Index & Diabetes | Waterloo, Canada | Sep - Dec 2015
- Analyzed possible factors of Walkability Index (WI) and coded sensitivity analysis algorithm for multi-criteria weights of factors in WI mapping using Python
- Examined association between WI and diabetes by regression models using ArcGIS, GeoDA, and SPSS

Spatial Modelling for Sinkhole Susceptibility | Waterloo, Canada | Jan - Apr 2015
- Extracted social and natural factors of sinkhole and constructed prediction model of sinkhole occurrence based on Logistic Regression model using SPSS
- Analyzed results and wrote final report with recommendations for built environment designn and future urban development