Ruoran Lin

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PROFILE

Ruoran is a recent graduate seeking a full-time job opportunity in urban analytic, spatial analysis, and data visualization.

EDUCATION

Columbia University
MS Urban Planning
Major: Urban Planning
Concentration: Urban Analytic
New York, NY
Sep 2016 – May 2018

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

Wuhan University
Bachelor of Engineering
Major: Geoinfomatics
Wuhan, Hubei, China
Sep 2012 – Jun 2016

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 ***

LANGUAGES

English ****
Mandarin *****

EXPERIENCE

Digital Social Science Center, Columbia University
Spatial Research Intern | New York, NY | Jan 2017 – May 2018
- 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 helped students with basic interactive mapping skills using online tools, such as 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, arranged field trip, 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

Urban Agriculture (UA) in New York City | New York, NY | Sep 2017 – Apr 2018
- Examined the citywide UA locations, distribution, and spatial patterns using ArcGIS
- Performed a multifunctional evaluation of UA benefits and challenges through a statistical regression and UA modeling and interviews

Razing NYC: Buyouts in the Wake of Sandy | New York, NY | Mar – Apr 2018
- Visualized property buyouts and demolition on Oakwood Beach after Hurricane Sandy using HTML/CSS/JS (https://kkkddder.github.io/BuildingNYC/Ass3.html)

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 design and future urban development

AWARDS

University of Waterloo | Graduation with Distinction, Chinese Universities Scholarship
Wuhan University | First Prize Scholarship, NavInfo Scholarship, National Scholarship