

Hao Rong

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Portfolio Website: <https://rh443453518.github.io/>

Education

M.S. in Regional Science, Cornell University, Ithaca (Expected) 05/2018
• Concentration: Urban and Regional Economics & Information Systems

B.Eng. in Urban Planning, South China University of Technology, Guangzhou 06/2016
• Honors Graduation Project: Strategic Development Planning of Yatze-Jian Basin Area

Master's Thesis

Text Mining for Decoding Market Expectation of Real Estate Price 06/2017 - Present
Applied topic modeling, sentiment lexicon, and word embedding algorithms on Wechat social media articles. Categorized and quantified different trends of real estate price expectations in parallel with time. Compared results with government intervention to evaluate market reaction to different types of regulatory policy.

Research Experience

Probe into the Preservation of Historic Area in a Semantic View 06/2015 - 08/2015
Worked with Prof. Miaoqi Zhao as an undergraduate research assistant. Used cognitive maps comparing online and on-site impressions to understand and visualize how semantic symbols of historic buildings are preserved in people's perceptions.

Beyond Responsibility: Newsstands Management Policy in the Digital Age 04/2015 - 06/2015
Worked in a team of undergraduate students. Engaged with local media department to draft an improvement plan on newsstand management policy. Wrote a twelve-page report which was awarded 3rd place in a national undergraduate planning research competition organized by National Steering Committee of Urban and Rural Planning Education in China.

Spatial Agglomeration behind E-Commerce: Taobao Village in Guangzhou 08/2014 - 11/2014
Worked in a team of undergraduate students. Investigated the spontaneous spatial agglomeration process of the production base of online C2C retail stores and the formation process of supply chain, logistics systems, and clan networks. Wrote a thirteen-page paper which was submitted to University 'Hundred-steps' Undergraduate Research Committee.

Technical Skills

Programming: Python / Java / MySQL / Julia / Octave

Data Analysis: R / STATA / JMP

Visualization & Web: JavaScript / D3.js / HTML / PHP / CSS / jQuery / Scrapy

Architectural, Urban Design: AutoCAD / Rhino / Photoshop / Sketch Up / Lumion / ArcGIS

Course Project

Database Management System Practicum	08/2017 - 12/2017
Implemented and optimized a simplified database management system including a SQL interpreter, query plan builder, query optimizer and multiple operators using JAVA.	
Predicting Retained Buyer after Promotion on B2C Platform	10/2017 - 11/2017
Explored feature engineering and built prediction model through various machine learning algorithms. Applied matrix completion on low-rank model to predict buyer retention using Julia.	
Panda Diplomacy of China - Web Driven Data Visualization	04/2017 - 05/2017
Collected and compiled data on the various diplomatic panda exchanges in the last century. Built interactive visualization webpage interface using JavaScript and D3.js library.	
Two Facades of Guangzhou - Redevelopment of Central Station	03/2015 - 05/2015
Investigated the industrial and historical development in the Central Station area. Made an urban design project with concern of updating functionality and preserving cultural legacy.	
Preservation Corridor Design for Lung Tsun Stone Bridge Remnants	04/2013 - 06/2013
Brainstormed ideas and elaborated architectural design to preserve and reactivate historic site.	

Professional Experience

Economic Planner	02/2016 - 06/2016
Sci-city Planning Research Corporation, Guangzhou, China	
<ul style="list-style-type: none">• Completed strategic development planning of Yatze-Jian basin area• Reorganized industrial strategy and economic planning• Drafted a report on local public finance and benefit from land contract	
Transportation Planner	07/2015 - 10/2015
Architectural Design - Research Institute of SCUT, Guangzhou, China	
<ul style="list-style-type: none">• Drafted regulatory plan of Guangzhou south railway station area• Conducted railway traffic data analysis to predict passenger flow• Investigated and analyzed passenger constitution and behavior	
Project Assistant	06/2014 - 08/2014
Zhu-he Real Estate Corporation, Zhenjiang, China	
<ul style="list-style-type: none">• Collaborated with design team on landscape improvement• Solicited governmental authorization of project construction	

Test Score

• GRE Subject, Mathematics - Score: 800, Percentile: 79%	10/2017
• GRE General - Verbal: 150, Quantitative: 170, Analytical Writing: 3.0	10/2015

Extracurricular Activities

• Cornell Illumination Dance Troupe	2017
• SCUT Urban Planning Society	2014 - 2016
• SCUT University Press Corp	2013 - 2014
• Architecture School - Tech Innovation Club	2012 - 2013