

Zhiwei (Iris) Yan

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EDUCATION BACKGROUND

University of Minnesota - Twin Cities	Minneapolis, MN
Candidate for Master of Geographic Information Science	Anticipated in May 2019
Pursuing Computer Science Graduate Minor	GPA: 3.9/4.0
University of Waterloo	Waterloo, Canada
Bachelor of Environmental Studies, Geomatics	September 2015 - June 2017
Minor in Computer Science	GPA: 3.73/4.0 Dean's Honors List
Wuhan University	Wuhan, China
Bachelor of Science	September 2013 - July 2015
Geographic Information Science and Cartography	GPA: 3.72/4.0

WORK EXPERIENCE

Student Worker Minnesota Department of Transportation	St. Paul, Minnesota
<ul style="list-style-type: none">Produced Minnesota highway maps alongside 4 coworkersProvided geographic information and mapping support to other offices	May 2018 - Present
Student Assistant Esri Federal GIS Conference	Washington D.C.
<ul style="list-style-type: none">Registered attendees and assisted with technical workshops	March 2018
Intern in Big Data Center Guangdong Rural & Urban Planning and Design Institute	Guangzhou, China
<ul style="list-style-type: none">Collected POIs (Points of Interest) from online maps using PythonDesigned a model to evaluate the locations of current football fieldsConducted multiple factor analysis to select the optimal locations for future football fields	June 2017 - August 2017

RESEARCH EXPERIENCE

Modeling Tourist Movement Using Modified Levy Flight	January 2018 - May 2018
<ul style="list-style-type: none">Developed an agent-based model in NetLogo to simulate tourist movements in a cityUsed actual tourist movement data collected from Flickr to parameterize the movement model	
Use VGI to Identify and Analyze Top Tourist Attractions	September 2016 - April 2017
<ul style="list-style-type: none">Collected over 230,000 geotagged photos from Flickr using PHP to visualize the spatial distribution of photosUsed database techniques and MySQL to distinguish between photos taken by tourists and by locals	
Mining Colocation Patterns of Hotels with the Q statistic (Published in <i>Applied Spatial Analysis and Policy</i>, first author)	February 2015 - August 2017
<ul style="list-style-type: none">Collected hotel data in 10 cities and used the Q statistic to identify the distribution of different kinds of hotelsDiscovered the spatial association patterns of hotels and analyzed the reasons and the implications	

SKILLS

Application Software: ArcGIS, Oracle, MySQL, MATLAB, SPSS, NetLogo, ENVI
Computer Languages: Python, C, C++, SQL, HTML, CSS
Languages: Chinese Mandarin (native); Chinese Cantonese (native); English (fluent)

EXTRACURRICULAR ACTIVITIES

Participated in the ECCE App Challenge 2016 held by Esri Canada

February 2016

- Developed an app named “Where is Water” to provide an interactive map of drinking fountains in Waterloo Region

Associate Leader of Student Union

2013 - 2015

- Helped to organize events and competitions for over 1200 students

Head of Promotion Department of Cantonese Cultural Association

2013 - 2015

- Led the members to design posters and/or make videos and managed the social media