

## Zijian Jiang

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### PROFILE

- Honours Bachelor of Environmental Studies, major in Geomatics, University of Waterloo, Canada, from 2016 to present;
- Solid understanding of environmental research methodologies through combination of computer science, data science and statistics;
- Extensive volunteer and internship experiences in university, high-tech firm and non-for-profit organization;
- An innovative & self-motivated undergraduate student, a sports enthusiast and a saxophone performer;

### EDUCATION

**UNIVERSITY OF WATERLOO**, Faculty of Environment, Waterloo, Ontario, Canada

*Master of Environmental Study (Water)*, Sept. 2020 to Present

- Research Interests: utilizing remote sensing and GIS to obtain spatial data, to support urban planning and environmental management;
- Focus: Ground feature recognition based on high resolution remote sensing image;

*Honours Bachelor of Environmental Studies, major in Geomatics*, Sep. 2016 to Aug. 2020

- Strong academic background in Geomatics, especially in applications of advanced research methodologies including Geographic Information Systems, spatial database design and network analysis;
- Participated in several research projects and took volunteer jobs on and off campus;

### INTERNSHIP EXPERIENCE

**LAUNCHPAD INNOVATIVE MINDS LAB INC.**, Waterloo, Ontario, Canada

*Summer Program Coordinator*, Laurier LaunchPad Incubator, Wilfrid Laurier University, Jul. 2019 to Aug. 2019

- Responsible for the organization and execution of all daily administrative tasks associated with the operation of the program;
- Acted as a program ambassador to help participants from China to get used to their new life in Canada;
- Coordinated with program partners, including transportation company, student residence and universities, etc.;
- Worked closely with Executive Director to oversee the promotion and advertisement of the program;

**BEIJING ATTRACTION VISUAL TECHNOLOGY CO. LTD**, Beijing, China

*Assistant Intern of CEO*, Jun. 2018 to Aug. 2018

- Shadowed CEO, Mr. Cao Fengwei as he performed his daily duties and prepared related administrative documents for him;
- Contributed ideas towards the continuous improvement of product design and customer services;
- Prepared reception activities for officers from government and other regulators and organized team building activities in the office;
- Provided dedicated administrative supports in management meetings and training sessions;

### RESEARCH AND LAB PROJECTS

**FLOODING RISK ANALYSIS OF UNIVERSITY OF WATERLOO**, Apr. 2019 to Aug. 2019

- Utilizing GIS software such as ArcMap and ArcCatalog, we estimated catchment capacity of the water inlet, analyzed the potential flooding risk areas in the main campus of UW through producing potential flooding map and finally suggested new inlet locations;

**VEGETATION DYNAMIC OF CHINA THREE-NORTH SHELTER FOREST PROGRAM**, Dec. 2019 to Apr. 2020

- Combining MODIS remote sensing data analysis and advanced algorithm, analysed the vegetation change in the Three-North region in China and its environmental impacts from 2000 to 2019.

**MULTI-CRITERIA LAND ALLOCATION OF NORTHEASTERN WASHTENAW COUNTY**, Jan. 2019 to Mar. 2019

- By building development suitability models and making development suitability maps, we created a final land use map during the development process of Washtenaw County, which has positive value for the reference of government and designers;

### COMMUNITY EXPERIENCE

*Chinese Culture Ambassador*, UNIVERSITY OF WATERLOO, International Culture Fair, Waterloo, Ontario, Canada, Jul. 2017

*Volunteer for Refugees*, IMMIGRATION WATERLOO REGION, Waterloo, Ontario, Canada, Nov. 2016

*Volunteer*, TERRY FOX RUN, Hamilton, Ontario, Canada, Oct. 2015

### ADDITIONAL INFORMATION

- **IT Skills:** advanced user of professional GIS software including ArcMap, ArcCatalog and ArcGIS pro, etc., and remote sensing software including PCI Geomatica; high level of proficiency in Python, SQL, C, MATLAB and R, etc.;
- **Backpacker:** enjoyed travelling worldwide, including countries in Asia, Europe and North America;
- **Sports:** enjoy skating in winter and top player of the basketball team "Chinada Goose" who entered the semi-finals in the Apr. 2019 Intramural Basketball League at UW;