

ZIJIAN JIANG

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EDUCATION

MASTER OF ENVIRONMENTAL STUDIES

Computer Vision

University of Waterloo

Waterloo, ON | Expected in December 2021

- Thesis: remote sensing imagery object detection and extraction using deep learning.
- Assisting urban planning and environmental management using remote sensing and GIS techniques

BACHELOR OF ENVIRONMENTAL STUDIES

Geomatics

University of Waterloo

Waterloo, ON | August 2020

- Strong academic background in GIS and remote sensing, minored in computer science
- Participated in several research projects and took volunteer jobs on and off campus

WORK HISTORY

GEOSPATIAL SENSING AND DATA INTELLIGENCE LABORATORY, UNIVERSITY OF WATERLOO

Research Assistant | Waterloo, Ontario, Canada | September 2020 - Current

- Working on 2021 IEEE GRSS Data Fusion Contest which aims at creating deep learning model for object classification.
- Worked on building geospatial database of region of Waterloo which will be published as the largest dataset available for deep learning
- Prepared materials for reports, presentations and submission to peer-reviewed journal publications.
- Completed administrative and research duties per professor request.

LAUNCHPAD INNOVATIVE MINDS LAB INC, LAURIER LAUNCHPAD INCUBATOR, WILFRID LAURIER

UNIVERSITY

Summer Program Coordinator | Waterloo, Ontario, Canada | July - August 2019

- Responsible for the organization and execution of 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
- Worked closely with Executive Director to oversee the promotion and advertisement of the program

BEIJING ATTRACTION VISUAL TECHNOLOGY CO. LTD Assistant Intern of CEO | Beijing, China | April - August 2017

- Performed location-allocation process to optimize the site selection of the advertising board in Beijing subway
- Prepared reception activities for officers from government and organized presentation of production
- Analyzed geospatial data sets of Beijing Transportation to construct digital maps.

SKILLS AND ADDITIONAL INFORMATION

- Acquired proficiency on python, MATLAB, R and SQL; familiarity with operation on open-source database, GDAL, MongoDB, SQLite
- Familiar with deep learning packages, such as Tensorflow and PyTorch
- Sensitive on algorithms and statistics; experienced in managing data and database.
- Passion for challenging research problems, independent research ability
- GitHub portfolio: https://z95jiang.github.io/zijian_jiang.github.io/