

# Weishan Bai

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## EDUCATION BACKGROUND

- **09/2019-present State University of New York at Buffalo, Department of Geography, advisor: Prof. Le Wang**
  - Major: Geographical Information Science, GPA: 3.97
  - Degree: Master of Science
- **09/2014-06/2018 Guangzhou University, School of Geographic Sciences**
  - Major: Geographical Information Science, GPA: 3.14
  - Degree: Bachelor of Science
  - Thesis: *Spatial Recognition of Urban Fringe Based on POI*

## AWARD & HONOR

- 10/2017 Second Prize Scholarship for Merit Students, Guangzhou University
- 10/2016 Excellent Student Leader Award, Guangzhou University

## PROJECT EXPERIENCE

- **10/2017-05/2018 Spatial Measurement and Landscape Perception of Urban Fringe Based on Multi-source Remote Sensing Information, Participant**
  - A National Natural Science Foundation of China project directed by Professor Zhifeng Wu
  - Responsible for data processes, including POI data collection and analysis, building models based on POI data to recognize urban fringe areas.
- **08/2015-07/2018 Coupling Coordination Analysis of Population Urbanization and Land Urbanization Based on Spatial Difference, Participant**
  - A National Social Science Fund of China project directed by Professor Qingsheng Yang
  - Responsible for data process, including data collection and model building of land urbanization and population urbanization and remote sensing image process
- **09/2019-present Graduate Project:**
  - *Per-field land use classification based on machine learning and remote sensing data*, directed by Professor Le Wang & Yingjie Hu
  - *Manhattan buildings' heights estimate --An application of kriging model*, directed by Professor Ling Bian

## PUBLICATIONS

- H. Zhang, X. You, **W. Bai**, Y. Huang, *Measurement of Destination Tourism Attractiveness and Influence Factors, Economic Geography-China*, 2018(07)
- Q. Yang, H. Zhang, **W. Bai**, W. Liu, *County-Scale migration attractiveness and factors analysis*, 26th International Conference on Geoinformatics IEEE (2018), pp. 1-7

## INTERNSHIP EXPERIENCES

- **03/2019-07/2019 Surveying and Mapping Institute of Lands and Resource of Guangdong Province**
  - Worked in the Third National Land Survey team. Engaged in software development, testing, user service and database management.
- **03/2018-06/2018 Guangdong Academy of Social Sciences, Macroeconomic Research Center**
  - Took charge in data collection and processing and analysis with GIS and Remote Sense technologies. Engaged in review and synthesis of planning documents and GIS mapping production.

## COMPUTER SKILLS

- Computer Language: Proficient: Python, C#, SQL ; Competent: R; Advanced beginner: HTML, JavaScript.
- Software: Proficient: ArcGIS Pro, ENVI, SQL Server; Competent: Google Earth Engine, Pix4D.
- Programming Skills: Machine Learning/Deep Learning Models for data analysis and classification; Using R to do data analysis and visualization; Development of Google Earth Engine and ArcGIS; Data mining and web crawler; Natural Language Processing; etc.