

Lingfei Ma

Curriculum Vitae

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EDUCATION

Bachelor of Sciences in Geographic Information Science, China University of Geosciences, Beijing, Sep, 2010 – June, 2013

- China University of Geoscience (Beijing) with a major in Geographic Information Science, Bachelor Degree in the School of Information Engineering, expected in 2015

Bachelor of Sciences in Geomatics, University of Waterloo, Waterloo, Ontario, June, 2013 – Aug 2015

- Was selected to be a member of China 2+2 Program of University of Waterloo in summer of 2013. Full-time majors in the Honours Geomatics Regular Program commencing Sep, 2013, expected in Aug, 2015

Bachelor of Sciences in Computer Science (minor), University of Waterloo, Waterloo, Ontario, June 2013 – Aug 2015

- Full-time studies in the Minor Computer Science Program commencing Sep, 2013, expected in Aug, 2015

Master Candidate of Sciences in Geography, University of Waterloo, Ontario, Sep 2015 - present

- Full-time studies in the Geography Program commencing Sep, 2015, expected in Aug, 2017

EQUIPMENT & LABORATORY SKILLS

- Handheld GPS, Bubble Type Level, Rain Gauge, Radiometer
- ArcGIS 10.2 Desktop, ENVI 4.6, IBM SPSS 22, QGIS 2.6
- Analyzing geospatial data using GIS techniques, processing remotely sensed imagery, selecting soil samples, measuring river flow velocity, measuring rainfall capacity

RESEARCH AND ACADEMIC EXPERIENCE

Geographic Information System (GIS) Project Sep, 2014 – Dec, 2015

New GRT Express Student Line in Kitchener-Waterloo Area

Taking advantage of spatial analysis and GIS web service, and in combination with current Grand River Transit bus line network, a new express bus line was established to improve public transportation system in K-W area, especially for college students. Another function is an online application that allows users to query GRT bus information.

Remote Sensing Project Jan, 2015 – Apr, 2015

Multi-temporal Land Cover change detection in San Francisco, CA Using Remote Sensing

Mapping land cover classes and coastline through remotely sensed imagery classification, the tendency of land cover and coastline changes can be demonstrated and analyzed. Evaluating dominated factors that contribute to relevant changes.

Geographic Information System (GIS) Project Sep, 2015 – Dec, 2016

To develop an integrated tourism information management system based on GIS to help tourists plan their routes and improve their travel satisfactory in urban cities. Network analysis and multiple criteria analysis can be used to provide tourists with suitable and efficient transportation modes. Based on specified characteristics, users are able to design their own preferred tourism routes using WebGIS.

VOLUNTEER/EXTRACURRICULAR EXPERIENCE

- Acted as secretary of Student Union, China University of Geosciences, Beijing, Sep, 2010 – June, 2011
- Surveyed natural resources and sketched a map, Hebei Province, China, June 2011 – July 2011
- Joined the faculty basketball team and participated in Dixin Cup match, China University of Geosciences, Beijing, May 2012 – June 2012
- Volunteered as a staff in The National Amateur Tennis Championships, Linxi Country, Inner Mongolia, June 2013 – July 2013
- Volunteered as a staff to provide publicity materials about preventing natural hazards, Beijing, Sep 2013 – Oct 2013
- Volunteered the China Tennis Open, Beijing, Oct 2013 – Nov 2013
- Visiting Smart City Sensing and Computing Laboratory, XiaMen University, May 2015 – July 2015

PRESENTATIONS/CONFERENCES/POSTERS

- Student Delegate in The 9th ESRI China Users Meeting, Beijing, Nov, 2011
- Student Delegate in The 10th ESRI China Users Meeting, Beijing, July,

2012

- Poster: Multi-temporal Land Cover change detection in San Francisco, CA Using Remote Sensing (in process), Jan, 2015 – Apr, 2015

SKILLS AND INTERESTS

- Experienced in wilderness survival
- Canada G-2 Driving License
- Fluent in Mandarin and English