

Ziqi Li

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George Washington University
Department of Geography
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Technical Skills

- Programming language: Python, C/C++, JavaScript, SQL, Swift/Objective-C
- Statistical and modeling: R, Matlab, SPSS, MS Excel
- GIS and remote sensing: ArcGIS, QGIS, GRASS, Erdas Imagine, ENVI

Education

September 2014 – present (expected in May 2016)

Master of Arts in Geography

George Washington University, Department of Geography

- Graduate Research Assistantship (on NSF sponsored project)
- University Fellowship (full-tuition)
- Cum. GPA: 4.0/4.0 (so far)

September 2012 – July 2014

Bachelor of Environmental Studies in Geomatics

Minor in Computer Science

Diploma of Excellence in Geographic Info Systems

Department of Geography and Environment Management, University of Waterloo

- Degree Honors: Dean's Honors List
- 2+2 joint program with Wuhan University
- Excellent academic standing
- Cum. GPA: 3.9/4.0 (CS GPA 4.0/4.0)
- Thesis: Evaluate the potential applicability to estimate thawing season active layer depth using MODIS LST and NDVI in North Slope of Alaska, USA (Prof. Claude Duguay)

September 2010 – July 2012

Bachelor of Engineering in Remote Sensing

School of Remote Sensing and Information Engineering, Wuhan University, China

- Program: Remote sensing science and technology.
- 2+2 joint program with University of Waterloo

Research Experience

September 2014 – present

George Washington University | Graduate Research Assistant

CALM Group, Department of Geography, supervised by Prof. Nikolay Shiklomanov

- Incorporating satellite images and field-measured climate variables to quantify permafrost degradation and climate change in the Arctic (Alaska and Siberian).
- Primarily using Python and R with open-source geographic packages to conduct spatio - temporal analysis.

May 2015 – present

The World Bank | GeoSpatial Data Consultant

Development Research Group, supervised by Dr. Harris Selod

- Providing technical GIS support on project entitled Transportation Policies for Sustainable and Inclusive Growth.
- Automating geographic, agricultural and economic data processing and statistical analysis primarily using Python and R.
- Creating world markets accessibility map and preparing manuscripts for publication.

September 2013 – May 2014

University of Waterloo | Undergraduate Research Assistant

Duguay Research Group, Department of Geography and Environment Management

- Evaluated the potential applicability to estimate thawing season active layer depth using MODIS LST and NDVI in North Slope of Alaska, USA.

August 2013

GIS Assistant | University of California, Berkeley

Department of Environmental Science, Policy and Management

- Analyzed field-measured GPS and spatial species data and connected with protected areas and climate variables of Ghana and Madagascar.
- Worked with Dr. Nyeema Harris.

June – July 2013

Remote Sensing Research Assistant | Ministry of Environmental Protection, China

Satellite Environment Center, supervised by Dr. W. Shen and Dr. Ying Li

- Contributed to the project entitled China's national survey and assessment of environmental and ecological changes from remote sensing data.
- Processed and analyzed MODIS imagery for monitoring urban heat island in Beijing over past decade.

Publications and Presentations

Peer-reviewed publications

Li, Z., Zhang, Z., & Davey, K. (2015). Estimating Geographical PV Potential Using LiDAR Data for Buildings in Downtown San Francisco. *Transactions in GIS*. doi: 10.1111/tgis.12140.

Conference presentations

Li, Z., & Shiklomanov, N. (2015). Effects of Arctic Urban and Industrial Development on Land Surface Temperature: A Case Study for the Norilsk Region, Russia. *Association of American Geographers (AAG), Chicago IL, April 2015*.

Selected Awards and Honors

2015 Summer	Campbell Summer Research Grant (\$1000), GWU
2014 – 2016	University Fellowship (full-tuition), George Washington University
2014 – 2016	Graduate Research Assistantship (on NSF sponsored project), GWU
2014 Summer	Graduate on Dean's Honors List, UWaterloo
2012	Chinese Universities Entrance Scholarship (\$1000), UWaterloo