

Ziqi Li

George Washington University

Department of Geography

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Research interests

- GIScience and Spatial Analysis
- Remote sensing and image processing
- Spatial statistics and econometrics
- Renewable energy and natural resources

Technical Skills

- Programming: Python, C/C++, Java, SQL, JavaScript
- Statistics: R, MATLAB, SPSS
- 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

- Circumpolar Active Layer Monitoring (CALM) Group
- 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 GIS

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

- 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).
- Effects of Arctic Urban and Industrial Development on Land Surface Temperature: A Case Study for the Norilsk Region, West Siberian, Russia.
- 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.

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 in 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 publication

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 presentation

Li, Z., & Shiklomanov, N. (2015). Impacts of urban and industrial development on Arctic land surface temperature in Lower Yenisei River Region. Poster presentation at *American Geophysical Union (AGU), San Francisco CA, Dec 2015 (Accepted abstract)*.

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

Selected Awards and Honors

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