

Ziqi Li

George Washington University

Department of Geography

202-262-6048

liziqi1992@gmail.com

<http://www.ziqi-li.info>

Research interests

- GIScience and Spatial Analysis
- Spatial big data and mining
- Cyberinfrastructure and geocomputation
- Remote sensing and image processing
- Spatial statistics and econometrics

Education

September 2014 – present (expected in May 2016)

Master of Arts in Geography

Department of Geography, George Washington University

- 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
- Cum. GPA: 84.4/100

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).
- Impacts of urban and industrial development on Arctic land surface temperature in Lower Yenisei River Region.
- Primarily using Python and R with open-source geographic packages to conduct spatio-temporal analysis with parallel computing.

May 2015 – Present

The World Bank | GIS Consultant

Development Research Group, supervised by Dr. Harris Selod

- Providing technical GIS consultancy on project entitled Transportation Policies for Sustainable and Inclusive Growth.
- Improving world market accessibility model with global DeLorme transportation network and connected with spatial agricultural data and market price to estimate economic potential using panel and cross sectional analysis.

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 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). 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*.

Shiklomanov, N., Nelson, F., Streletskiy, D., Klene, A., & Li, Z. (2015) CALM at 21: Results of long-term monitoring of the active layer/upper permafrost system. Oral Presentation at *American Geophysical Union (AGU), San Francisco CA, Dec 2015*.

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

Professional Membership

American Geophysical Union (AGU)

Association of American Geographers (AAG)