

Zheng Liu

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EDUCATION

UNIVERSITY OF MARYLAND College Park, MD
PhD, Geographic Information Science and Cartography Aug. 2017—Present
Overall GPA 3.9

PEKING UNIVERSITY Beijing, China
B.S., Geographic Information Science Sept. 2013 –July 2017
B.S., Mathematics and Applied Mathematics
Overall GPA 3.5

WORK AND RESEARCH EXPERIENCE

Identify neighborhood name through VGI College Park, MD
Cooperate with research and paper writing Spring 2018

- Polish idea and develop scripts on Global and Local Moran's I of large data in Python and R.
- Related work reviewing
- Write part of the paper

The co-evolution of cultural environmental knowledge and stakeholder networks on Deal Island Peninsula College Park, MD
Data analysis Spring 2018

- Help to build a series of data processing pipeline from raw survey response to R-friendly social network data format.
- Try some modeling based on ERGM.

Center for Geospatial Information Science Inauguration and Reception College Park, MD
Poster Presenting Nov. 2017

- Titled Identifying Spatiotemporal Activity Patterns in Beijing Based in Geosocial Microblogs
- shows the temporal and spatial differences from different POIs of recreation types in Beijing using geo-Weibo data

RaiseTech Corporation (ThinkTrader.net) Beijing, China
Software Development Internship Feb. 2017 – Jul. 2017

- Built LUA script compiler monitor between different versions in C++
- Did history stock data cleaning by Python script

PEKING UNIVERSITY Beijing, China
Supervised Independent Study funded by Principal's Fund (4000 RMB): Sept. 2015 – Oct. 2016

- Used a data-drive method to analyze tourists' behavior patterns in Beijing with data extracted from the Sina Weibo API in C# environment.
- Analyzed the temporal and spatial features of data in order to evaluate travel behavior patterns.
- Demonstrated result tourist district maps on ArcGIS.

JOINT SUMMER SCHOOL OF TU MUNICH AND TSINGHUA UNIVERSITY Beijing, China
Latest Achievement in Transportation Engineering and Logistics: Jul. 2015

- Lectures and practical class in transportation
- Seminar in Logistics

TEACHING EXPERIENCE

Graduate Teaching Assistant

GEOG 376 Introduction to Programming for Geographers
 GEOG 670 Open Source GIS
 GEOG 650 Mobile GIS
 GEOG 660 Advanced Remote Sensing using Lidar

College Park, MD
 Spring 2018
 Summer 2018
 Fall 2018
 Winter 2019

IT SKILLS & LANGUAGES

- Python, C, C++, C#, SQL, Matlab, SAS, ArcGIS, QGIS, ENVI – Proficient
- R, JavaScript, Html, POSTGRESQL, JSON, MIPS, OpenCV, OpenGL, CorelDraw, LaTeX, Lingo, Machine learning – Intermediate
- Chinese – Mother tongue
- English – fluent
- German – beginners

EXTRACURRICULAR ACTIVITIES

- Hobbies: Tennis, Softball, Fitness
- Leadership in Student Union of School of Earth and Space Science, Peking University

PUBLICATIONS

- McKenzie, G., Liu, Z., Hu, Y., & Lee, M. (2018). Identifying urban neighborhood names through user-contributed online property listings. ISPRS International Journal of Geo-Information, 7(10), 388.