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Personal Page

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Programming



OS Preference

Windows ★★★★★
MacOS ★★★★★
Unix ★★★★★

Personal Skills



Zhaohui Li(Zach)

GIS Scientist | Geographer

Education

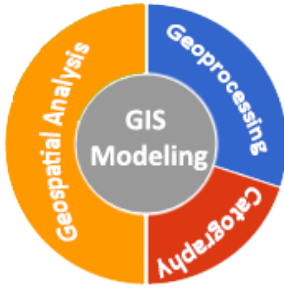
- 2014 - 2016 **M.A in Geography, GWU** [Washington D.C](#)
Specialization in GIS, RS, Data Science, and Urban Planning.
Related Coursework: GIS Fundamental | Advanced, Data Mining, GIS Programming, Geospatial Statistics, Database Management Systems, Web-based GIS, Urban Geography, Qualitative Methods, Geography Thoughts and Methods .
- 2014 - 2016 **Bachelor of Engineering in Urban Planning, IMAU** [Hohhot, P.R. China](#)
Specialization in Urban Planning, and Architectural Design
Related Coursework: VB Programming, Urban Road Traffic and Infrastructure Planning, Urban Green Space System Planning, Fundamentals of City Planning, Architectural Mechanics, Architectural Design1|2, History of City Construction.

Research Intern Experience

- 03/16-03/16 **Field Research in H Street car, Washington D.C** [Washington D.C](#)
• Collected field data (Photos, videos, interviews materials, and archived photos). • Drafted the short history of Captain streetcars and visualized timeline of D.C street development. • Investigated current H street utilized condition, safety, as well as observed historic H street around running Street car. • Predicted D.C Street car development in future. • Conducted several potential research questions.
- 01/16-Present **Globalization Urbanization Migration (GUM) Website Maintained** [Washington D.C](#)
• Currently Working for Dr. Marie Price and to collect empirical data at the urban-level to measure immigration in cities around the world and Update data by GWU Drupal.
- 07/12-08/12 **Zhejiang Urban-Rural planning&Design Institute** [Hangzhou, P.R. China](#)
• Position Draftsman with paid. • Designed, conducted, and coordinated many draft projects with developing software packages such as AutoCAD, Photoshop, Sketch Up, etc. • Improved work efficiency by self-developing new techniques in the CAD software.

Project Experience

GIS Skills



02/16-03/16 **G20 Counties Military&GDP Analysis (2005-2014)** [Washington D.C](#)
 • Chooosed time span from 2005 to 2014 and Collected data from Word Bank Databank. • Applied Python libraries (Numpy&Pandas) to process and manipulate data • Visualized and analyzed data used matplotlib (Python library) and Poltly (Data Visualization Toolset).

09/15 - 12/15 **Factors affect the Population distribution in Ordos city** [Washington D.C](#)
 • Processed DMSP/OLS Data and Collected Local statistics data in county level (GDP, Population, Farmland area) • Used Arcpy geoprocessing the collected data and create Python Code that convert DBF format file to CSV format file. • Analyzed the data with spatial autocorrelation function and GWR as well as OLS.etc.

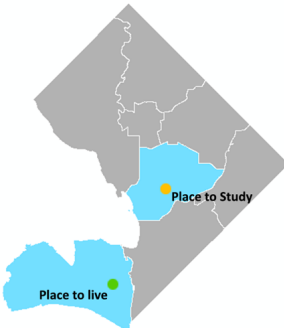
GIS App



10/15 - 12/15 **A web Application of Geospatial Visualization for Fatal Traffic Crashes in Washington D.C (2004-2013)** [Washington D.C](#)
 • Developed the Fatal Traffic Crashes Spatial database with Postages. • Data processing and Geo-processing with ArcGIS and EXCEL. • Improved User Interface with Bootstrap frame and used the leaflet library of JavaScript achieved dynamic interactive map. • Designed interactive dynamic statistics charts (Pie charts & Line charts) with Google charts.

03/15 - 05/15 **Spatial Distribution of Fatal Traffic Crashes in Washington D.C. (2003-2014)** [Washington D.C](#)
 • Geo-processing and Geocoding data with toolset in ArcGIS. • Collected Geospatial data from National Highway Traffic Administration • Used Describe Statistics functions and Geo-spatial Statistics functions to analyze the dataset. • Generated several thematic maps and of the study area and drafted a report.

Truf Map



03/15 - 05/15 **Geographically Visualizing Fine Particle (Pm2.5) Vehicle Emission in Washington D.C** [Washington D.C](#)
 • Improved the Gaussian Line Source Model and make it adjust to the project. • Used Model builder of ArcGIS to populate Euclidean distance between each road segment and the study area. • Used R-Studio to sum all raster data and finalize a single raster layer to represent the study area. • Generated a Vehicle Emission concentration map and drafted a report

05/12 - 07/12 **Field Surveying in Mahan mountain forest farm, Inner Mongolia** [Inner Mongolia,P.R.China](#)
 • Applied total station to measure and gather the surveying data from the study area of Manhan Mountain. • Measured characteristics of the study area such as surface physical feature, elevation, etc. • Drafted the survey data with South Cass CAD.

Languages

Mandarin ★★★★★
 English ★★★★★

Presentation

Li, Z. Price, M.
Ghost Cities in China: Urban Sprawl Urbanism Without People. Association American of Geographers (AAG). San Francisco CA. April 2016