

## Education

**University of Illinois at Urbana-Champaign** May 2016

*Bachelor of Arts Science and Letters Geography & Geographic Information Science*

**Geography 489: Programming for GIS** Fall 2015

Used R to manipulate, analyze, and visualize large sets of geospatial data using advanced functions and spatial algorithms

**Geography 460: Aerial Photo Analysis** Spring 2016

Photogrammetry, feature interpretation, digital image processing

**Geography 477: Remote Sensing** Fall 2015

Image processing and analysis in ENVI and R

**Geography 479: CyberGIS - High Performance Computing** Spring 2016

Used Apache Spark and Hadoop, parallel MapAlgebra, Python, R, and D3.js on the campus supercomputer, ROGER co-located with Blue Waters supercomputer

**Informatics 490: Advanced Data Science** Spring 2016

Machine learning, advanced text mining, advanced network analysis

## Experience

**Agribile Inc. Geospatial Analyst** Summer 2015 – Present

- Wrote tools using FOSS for conducting geospatial analyses (raster & vector)
- Produced high quality maps for clients using QGIS
- Technologies: Python & accompanying geospatial modules, PostgreSQL, PostGIS, QGIS

**Applied Technologies for Learning in the Arts & Sciences Computer Technician** Summer 2013

- Strengthened system administration skills through hands-on instruction in a large production environment

## Activities

**Urban and Geographic Information Systems Group President** 2015 – Present

- Assembled independent learning projects, workshops, and software demonstrations related to GIS
- Led a team of staff for event planning and execution
- Self-taught technical abilities inspired from UGIS

**Department of Geography & Geographic Information Science UIUC GIS Fellow** 2014 – Present

- Selected for GIS fellowship from a pool of candidates
- Provided researched feedback for upcoming courses and events

**iRobotics Leader of Mechanical Research & Development** 2014 - 2015

- Supervised & collaborate with members through all stages of R&D projects
- Conducted independent and group research for multiple projects for funding requests, mechanical part design, and manufacturing

## Skills

Python, C, MATLAB, R, UNIX, ArcGIS for Desktop, QGIS, L<sup>A</sup>T<sub>E</sub>X, Javascript, Autodesk Inventor