

Andrew J. Vinson

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A talented geographer and data analyst with a diverse experience using GIS, statistics, cartography, and data visualization to enhance spatial decision making in the Public Sector through my knowledge of demography, urban and regional planning, real estate, transportation systems, and economic development.

EDUCATION:

Master of Science in Geography, University of Alabama, Tuscaloosa, Alabama - Awarded *August 2013*

Geographic Information Science Certificate *May 2012*

Concentration: Urban/Regional Planning and GIS

Bachelor of Arts in Geography, University of Tennessee-Knoxville, Knoxville, Tennessee - Awarded *May 2010*

Concentration: Human Geography

TECHNICAL SKILLS:

- GIS Software: ArcGIS 9.3 – 10.2 (ArcMap, ArcCatalog, ArcGIS Server, ArcSDE, Network Analyst, Spatial Analyst, Business Analyst), QGIS, SAGA, GeoDa, Mapbox Studio, Mapinfo, ERDAS Imagine
- Design: Adobe CC Suite: Photoshop, Dreamweaver, Illustrator, Flash
- Programming and Scripting Languages: Python, HTML, JavaScript(D3.js, Leaflet.js), CSS, PHP, SQL
- Other Software: Proval, MS SQL Server, MySQL, MS Word, MS Excel, MS Access, MS Power Point, SPSS

RELEVANT EXPERIENCE:

GIS Technician, City of Norfolk's Real Estate Assessor's Office, Norfolk, Virginia - *December 2013 – Present*

- Conducted data analysis on land values (using SQL, MS Access, & Pandas Python module) and researched deed and mortgage issues involving tax delinquent parcels for the City of Norfolk Treasurer.
- Provided mapping, research, and logistical support for consulting projects requiring City of Norfolk Computer Assisted Mass Appraisal (CAMA) data and produced high quality cartographic materials for City of Norfolk
- Improved the integration of CAMA data and GIS through the creation of custom tools using the Arcpy Python module to automate and streamline the geocoding real estate sales and creation of data and reports
- Created data visualizations of Real Estate Data using python scripts

GIS Intern, Pennyriple Development District, Hopkinsville, Kentucky - *October 2013- December 2013*

- Analyzed and mapped census data for environmental justice studies for KyDOT Highway proposals
- Collected the GPS locations of water utility sites for rural Kentucky municipalities.

Graduate Research Assistant, Cartographic Research Laboratory at the University of Alabama, Tuscaloosa, Alabama - *August 2010 - August 2013*

- Conduct research on the demography of Alabama using GIS and data visualization tools
- Collaborated with several Alabama Regional Planning Commissions perform on quality control on the GPS collection of municipal utility data for rural Alabama
- Performed spatial analysis on the crime data on the University of Alabama campus
- Conducted the exploratory data analysis using spatial statistics on the spatial distribution of foreclosures in the aftermath of the April 27th, 2011 in Tuscaloosa.
- Managed and improved the Alabamamaps.ua.edu website including the posting of the new content and the creation of interactive maps using ArcServer and ArcGIS Flex API.

RELEVANT COURSEWORK:

- Intro to GIS, Advanced GIS, Remote Sensing I & II, Intro to Cartography, Computer Mapping, Quantitative Research Methods
- Land Use Regulation, Regional Planning Analysis, Urban Geography, Urban Social Geography, Urban Planning Analysis, Transportation Geography, Environmental Decision Making, The Global Economy, People and the Environment

HONORS:

- Speaker, URISA/IAAO's 2015 CAMA/GIS Technologies Conference in Oklahoma, City, OK – *Refining GIS/CAMA Data Quality and Visualization with Python*
- Chairman's Award for Contributions to Research and Public Service, Geography Department, University of Alabama 2012
- 2nd Place Team (SEDAAG), World Geography Bee, 2012 Association of American Geographers Conference (New York, NY)
- Professional Memberships: Association of American Geographers, URISA, Gamma Theta Upsilon
- Eagle Scout, Boy Scouts of America, 2006

VOLUNTEER EXPERIENCE:

- GIS Volunteer City of Tuscaloosa Planning Department in the aftermath of the April 27th, Tornado