Andrew J. Vinson

Data Analyst · Cartographer · GIS Professional
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Education

University of Alabama   *Tuscaloosa, Alabama*
Master of Science in Geography   *Aug. 2010 - Aug. 2013*

- Geographic Information Science Certificate - May 2012
- Concentration: Urban/Regional Planning and GIS

University of Tennessee-Knoxville   *Knoxville, Tennessee*
Bachelor of Arts in Geography   *Aug. 2006 - May 2010*

- Concentration: Human Geography

Experience

New York University School of Medicine   *New York, New York*
Senior Data Analyst (Department of Emergency Medicine/Health Geographics Research Initiative)   *Feb. 2016 - Present*

- Lead Data Analyst/Cartographer for several grant funded spatial epidemiological research projects.
- Assists faculty and medical professionals with map production and aspatial/spatial statistical analysis of population health and emergency medicine data.
- Writes SAS, Stata, Python, SQL, and R scripts to automate the data cleaning, statistical analysis, visualization, and mapping of large medical databases.

City of Norfolk, Virginia   *Norfolk, Virginia*
GIS Technician I (Real Estate Assessor's Office)   *Dec. 2013 - Feb. 2016*

- Provided mapping, research, and logistical support for urban planning, engineering, and consulting projects requiring Computer Assisted Mass Appraisal (CAMA) data and produced high quality cartographic materials.
- Improved the integration of CAMA data and GIS through the creation of custom tools using Python to automate and streamline data analysis of real estate sales as well as the creation of maps and reports.

Pennyrile Area Development District   *Hopkinsville, Kentucky*
GIS Intern   *Oct. 2012 - Dec. 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.

University of Alabama   *Tuscaloosa, Alabama*
Graduate Research Assistant (Cartographic Research Laboratory - Department of Geography)   *Jul. 2012 - Jun. 2013*

- Collaborated with several Alabama Regional Planning Commissions perform on quality control, data cleaning, and data management for the GPS collection of municipal utility data for rural Alabama.
- Performed ad hoc spatial analysis for university professors, staff, and community stakeholders.
- Maintained a historical cartography website

Publications

Identifying Geographic Disparities in Diabetes Prevalence Among Adults and Children Using Emergency Claims Data   *Journal of the Endocrine Society*

David C Lee, Mary Pat Gallagher, Anjali Gopalan, Marcela Osorio, Andrew J Vinson, Stephen P Wall, Joseph E Ravenell, Mary Ann Sevick, Brian Elbel   *May 2018*

Using Geospatial Analysis and Emergency Claims Data to Improve Minority Health Surveillance   *Journal of Racial and Ethnic Health Disparities*

David C. Lee, Stella S. Yi, Jessica K. Athens, Andrew J. Vinson, Stephen P. Wall and Joseph E. Ravenell   *Aug. 2017*

Assessing the Reliability of Performing Citywide Chronic Disease Surveillance Using Emergency Department Data from Sentinel Hospitals

David C. Lee, MD, MS, Jordan L. Swartz, MD, MA, Christian A. Koziatek, MD, Andrew J. Vinson, MS, Jessica K. Athens, PhD, MS, and Stella S. Yi, PhD, MPH

Population Health Management

Mar. 2017

Research Projects

2017-Present	**Community Determinants in Diabetes and Obesity**, Primary Investigator: Lorna Thorpe, PHD - Funded by: CDC	*Senior Data Analyst*
2016-Present	**Using Geographically Targeted and Community-Based Methods to Identify Factors Associated with Micro-Level Disparities in Diabetic Outcomes and Enhance Monitoring of Glycemic Control Among Black Men**, Primary Investigator: David Lee, MD - Funded by: NIH	*Senior Data Analyst*
2016-Present	**Geography of ED Use and Population Health**, Primary Investigator: David Lee, MD - Funded by: NYU School of Medicine	*Senior Data Analyst*
2016-Present	**Rural Health Surveillance**, Primary Investigator: David Lee, MD - Funded by: NYS Health Foundation	*Senior Data Analyst*

Technical Skills

Data Analysis and Statistics

SOFTWARE
- STATA, SPSS, R, SAS, Python

Databases

SOFTWARE
- Microsoft SQL, Microsoft Access, MySQL, Postgresql

Geographic Information Systems and Spatial Analysis

SOFTWARE
- ArcGIS, R, Python, STATA, QGIS, SAGA, GeoDa, ERDAS Imagine, PostGIS, Avenza Mapublisher,Spatstat

Productivity

SOFTWARE
- Adobe Creative Suite, Microsoft Office

Programming

LANGUAGES
- R, Python, HTML, JavaScript, CSS, SQL, Spatial SQL, Markdown

Honors & Awards

2017	**Geographic Information Systems Professional (GISP)**, GIS Certification Institute	*New York, NY*
2012	**Chairman's Award**, Geography Department - University of Alabama	*Tuscaloosa, AL*
2012	**2nd Place Team**, World Geography Bee, 2012 Association of American Geographers Conference	*New York, NY*
2006	**Eagle Scout Award**, Boy Scouts of America	*Clarksville, TN*

Presentation

URISA and IAAO CAMA/GIS Technologies Conference *Oklahoma City, Oklahoma*

PRESENTER FOR < REFINING GIS/CAMA DATA QUALITY AND VISUALIZATION WITH PYTHON> *Mar. 2015*
- Presented on automating a Real Estate Assessor GIS work flow with Python