

Kevin Burkman

Environmental & Urban Planner

GIS Analyst

Professional Experience

kevinburkman@gmail.com

New Jersey Department of Environmental Protection, Bureau of GIS

January, 2017 to Present. Trenton, NJ

- GIS Analyst
 - Created caching service for parcel data, water bodies, streams and 2012 land cover data
 - Created temporal mosaic datasets for aerial imagery.
 - Created standard operating procedure (SOP) manual for caching service.
 - Created SOP manual for ArcGIS Pro 1.4.1 functionalities.
 - Committee member for 2017, 2018 NJDEP Mapping Contest.
 - Extensive use of ArcGIS 10.5 Desktop, ArcPro 1.4.1, Portal for ArcGIS, ArcGIS Server, ArcGIS Online and related applications, including Storymaps, Web App Builder, Survey 123 Connect and Collector.
 - Use of GPS data collectors.
 - BGIS Helpdesk team member.

New Jersey Future

June 2015 to September 2016. Trenton NJ

- Program Fellow
 - Downtown Economic Redevelopment Assessment Developer
 - Developed a model using socioeconomic, real estate, and business data to demonstrate municipal redevelopment readiness.
 - Extensive use of U.S. Census, NAICS, and State of New Jersey employment and business data.
 - Comprehensive master and redevelopment plan reviews.
 - Extensive use of ESRI's Business Analyst.
 - Created a series of GIS-based maps depicting transportation, redevelopment areas, and evaluation of land and improvement values.
 - Places to Age Analysis Developer
 - Developed an analysis model for land use and planning characteristics for senior living conditions in Garfield and Fair Lawn, NJ.
 - Extensive review of municipal policies and programs for mixed-use centers, transportation, housing, and public spaces and amenities.
 - Extensive use of U.S. census data.
 - Comprehensive master and redevelopment plan reviews and analysis.
 - In-person site analysis.

Sourland Conservancy

January 2013 to present. Hopewell, NJ

- GIS Analyst
 - Land Use/Open Space Mapping
 - Using GIS, acquired data and created first-ever maps that illustrate preservation status of 7000+ land parcels in ecologically important, ninety-square mile Sourland region of New Jersey.
 - Liaison for data acquisition from municipalities and preservation organizations in study area.

- Create, edit and manage data as shapefiles and in file geodatabase.
 - Presented project in numerous public forums.
- PennEast Pipeline Study
 - GIS analysis/mapping of land use/land cover affected by proposed PennEast pipeline in the western Sourlands region.
- Hiking Atlas
 - Created first-ever maps that represent 20+ preserves in Sourlands region with hiking/walking trails.
 - Designed 50+ page atlas for maps, including preserve/hike descriptions, land cover and terrain, directions, etc.
- Online Atlas Application
 - Produced first-ever interactive online application for natural resources, recreation, and cultural features of the Sourland region.
- Geophysical Map
 - Produced large-scale physical map of Sourland region depicting elevation in shaded relief and land cover.
- Save the Amwell Valley Map

City of Trenton Department of Community & Economic Development

November 2014 to June 2015. Trenton, NJ

- GIS Analyst
 - Produced data and maps for the Director of Planning, Director of Housing & Economic Development, and the Director of Division of Economic Development.
 - Created first-ever maps for Trenton, including:
 - Abandoned properties
 - Brownfields
 - Illegal dumping sites
 - Community assets
 - Community housing
 - Election assets (wards/polling places)
 - "Trenton 250" master plan
 - Battle of Trenton map for tourism/economic development
 - Numerous ad-hoc maps

New Jersey Future

June 2014 to August 2015. Trenton, NJ

- Research Intern for Together North Jersey's Regional Plan for Sustainable Development project
 - Developed actions, impacts and feasibility of various sustainability actions, including air, water, and land stewardship, for the Natural Land Component.
 - Research areas included flood buyouts, effects of cumulative air pollution emissions, storm water management and open space investment.
 - Liaison for source material from environmental organizations and specialists.

Civil Solutions, a division of Adams, Rehmann, and Heggan

June 2008 to March 2012. Branchburg, NJ

- GIS Analyst/Spatial Data Processing for Local and State Municipalities
 - Created, edited and managed data as shapefiles and in geodatabases.
 - Updated utility, building footprints, zoning and tax/parcel maps for dozens of New Jersey and Pennsylvania municipalities, which included more than 250,000 features.
 - Created and updated Mapbooks.
 - Georeferenced aerial imagery for the New Jersey Department of Environmental Protection, via ArcGIS ArcMAP and Micro Images georeferencing tools.
 - Street asset collection/traffic signal enumeration for Jersey City, NJ, via EnterInfo GIS program.

- Created and maintained water, sewer and drainage datasets for Cedar Grove, NJ, water department.
- Linear referenced/conflated road datasets for New Jersey Office of Technology.

Verizon Wireless GIS/Spatial Analysis

January 2007 to January 2008. Bedminster, NJ

- GIS Analyst/Spatial Data Processing for Wireless Communications
 - Spatially analyzed local and regional tabular data sets of network/business coverages.
 - Produced shape files used in creation of business, network, ad hoc, mobile TV (MediaFlo), Secure Border Initiative (SBI) and Known Trouble Area (KTA) maps and reports.
- Integrated extensive functionality information for Verizon Wireless Network Geographics application into Quick Reference Guide (QRG). Comprehensive operational knowledge, including locate, query, analyze and reporting on coverage area licensing, sites, operational boundaries.

Devault Foods

January 1990 to December 2002. Malvern, PA

- Manager of Quality Assurance
 - Designed, implemented, and supervised QA programs for entire company product line.
 - Analyzed microbiological, nutritional, and production attributes for in-house brands as well as foods produced for Burger King and Wendy's restaurant chains. Coordinated USDA verification programs.

Education

Rutgers- The State University of New Jersey/Edward J. Bloustein School of Planning and Public Policy

New Brunswick, NJ

Degree: Master of City and Regional Planning, awarded May 2015

Concentration: Environmental and Physical Planning

GPA: 3.75

Rutgers- The State University of New Jersey

New Brunswick, NJ

Degree: Bachelor of Science, *cum laude*, awarded May 2008

Major: Environmental Planning/Geomatics

GPA in Major: 3.7/Overall GPA: 3.4

Undergraduate Senior Independent Study Projects

- Spring '08: *A Study of the Battlefield at Gettysburg and its Historic Land Preservation*
- Fall '07: *Geospatial Analysis of the Appalachian Mountain Club's Delaware Valley Chapter*

Graduate Capstone Projects

- Fall '14: *Strategic Community Resiliency Plan for Secaucus, NJ*
 - GIS coordinator for 8 member student group
 - Acquired/analyzed data and created map series for community, real estate, environmental transportation, and flood-risk based attributes.
 - Presented to Secaucus Town Council (December, 2014) and NJ APA Conference (January, 2015)
- Spring '15: *American Frontier Studio*
 - GIS coordinator for 3 member student group

- Acquired/created/analyzed data and created map series for locations of human service assets, to assist in expanding a food distribution system for low-income residents in a four county region of southwest New Mexico for the National Center for Frontier Communities.

Academic Honors and Awards

- Teuvo Airola Memorial Award for Excellence in Environmental Geomatics. Awarded May, 2008
- Wayne Soojian Scholarship in Planning. Awarded May 2014.
- Advocacy Scholar, Preservation Action Foundation. Awarded March 2015.
- 2015 Sourland Conservancy Volunteer of the Year. Awarded December, 2015.

Publications

“John Wesley Powell and the Arid Empire of the American West”. Kevin Burkman. *Bloustein Journal of Planning and Public Policy*. May 16, 2014. <http://blousteinjournal.rutgers.edu/john-wesley-powell-arid-empire-of-the-american-west/>

“Placing Economic Value on Natural Systems”. Kevin Burkman. (*NJ Future blog post*). June 25, 2014. <http://www.njfuture.org/2014/06/25/sustainable-raritan-river-conference>

“Bell Labs Redevelopment a Sign of the Future”. Kevin Burkman. (*NJ Future blog post*). July 24, 2014. <http://www.njfuture.org/2014/07/24/bell-labs-redevelopment>

Skills and Applications

Geographic Information Systems

- ESRI ArcGIS ArcMAP, Version 8.0 to 10.5 with Spatial Analyst Extension and Business Analyst
- ArcGIS Pro 1.4.1
- ESRI ArcGIS Server and Portal for ArcGIS
- EnterInfo: Integrated image/GIS based street asset collection program
- MicroImages: Raster processing.

Web Development

- Hyper Text Mark Up Language (HTML), Version 4.01
- Cascading Style Sheets (CSS)
- Wix Web Developer

General Computing

- Microsoft Word, Excel, Access and PowerPoint, Sketch-Up, Adobe Illustrator, In Design, & Photoshop

Volunteer/Community Positions

Montgomery Township Open Space Committee

January 2015 to present, Belle Mead, NJ

- Technical Advisor & GIS Analyst
 - Produced 10+ maps representing the township’s open space and hiking/walking paths.

Montgomery Township Environmental Commission

January 2016 to January 2017, Belle Mead, NJ

- Alternate member

Sourlands Conservancy

January 2016 to January 2017, Hopewell, NJ

- Board of Trustees

Stoutsburg Sourlands African American Museum

January 2016 to present, Hopewell, NJ

- Board of Trustees/Technology Chair

- Historic map production
- Created online mapping application for hundreds of African American sites of interest
- Website development