



Paul “Burke” Foley
Research Associate

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EDUCATION

NC State University -- Raleigh, NC [Graduated May 2011]

- Master’s, Geospatial Information Science and Technology

UNC Asheville -- Asheville, NC [Graduated December 2008]

- B.S. -- Environmental Science (Management and Policy concentration), Minor in Economics.

PROFESSIONAL EXPERIENCE

Research Associate, Institute for Transportation Research and Education

Raleigh, NC [June 2012 - PRESENT]

- Responsible for development, management, and maintenance of a business intelligence solution for NC State Highway Patrol Motor Carrier Enforcement (NCSHP MCE) operational planning support through development of dashboards, reports, and scorecards using the Microsoft business intelligence stack (SharePoint 2010 Enterprise for Internet Sites, Microsoft SQL Server 2008 R2);
- Develop, manage and maintain database holdings for use in web / business intelligence applications and on-demand requests
- Provide “quick response” data, analysis and map products on demand. Perform GIS analysis and produce web products of results.

Research Assistant, Institute for Transportation Research and Education

Raleigh, NC [June 2011 - May 2012]

- Developed workflow for migration of NCSHP MCE crash and enforcement data from disparate sources (MS Access databases, Excel workbooks) to MS SQL Server databases and developed analysis services from OLAP cubes for use in on-demand analysis by in-house staff and NCSHP MCE.
- Administer SQL Server 2008 R2, Esri ArcGIS Server 10.0, SharePoint Server 2010, IIS7 on Windows Server 2008/2003 platforms in production and development environments.
- Provide “quick response” data, analysis, reports, maps using Excel, Access, SQL Server, and ArcGIS (analysis workflows, geoprocessing tasks, Python scripting) for a variety of transportation research projects.
- Maintain Coverlab website (<http://coverlab.org>) by adding news articles, research, graphics, as well as maintaining and updating ColdFusion tools.

Student Assistant, Institute for Transportation Research and Education

Raleigh, NC [September 2010 - June 2011]

- Geocoded truck crash locations using ArcGIS Desktop.
- Designed and maintained Coverlab website (<http://coverlab.org>) using Adobe Dreamweaver.
- Created zoning maps for individual counties in NC from a variety of sources.
- Updated training exercises and presentations for ArcGIS 10 Introduction, ArcGIS 10 Intermediate, and ArcGIS 10 Geodatabase courses.
- Provided research support for various transportation related studies.

SKILLS

GIS Tools / Skills-- ArcGIS Desktop 10.0 (Spatial Analyst, cartographic design, database administration, geocoding, modeling, Python programming, ArcHydro), ArcGIS Server 10.0, GRASS 6.4.0, Google Earth

Database / BI -- Microsoft business intelligence stack (MS SQL Server 2008 -- SSMS, SSAS, SSRS, SSIS; MS SharePoint 2010 -- Designer, Dashboard Designer, MS BIDS), PostgreSQL, MS Access 2010, MS Excel w/ PowerPivot.

Programming / Languages -- Comfortable with Python, SQL, T-SQL, MDX, HTML, CSS, XML; Familiar with ColdFusion, REST, ArcGIS API for Silverlight, Flex, and Javascript.

IT / Administration -- MS Windows Server 2008/2003, Active Directory, IIS7, ArcGIS Server 10.0, MS SQL Server 2008 R2, SharePoint Server 2010 Enterprise for Internet Sites.

Design -- Adobe Creative Suite 5 (Dreamweaver, Photoshop, Illustrator)

Other -- MS PowerPoint, MS Visio.