

Matt Frost

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Objective To advance human well-being and environmental quality through information technology.

Education **University of Maryland School of Public Policy**
College Park, MD
Master of Public Management, December 2008
2008–2009 Ellis E. Meredith Fellow
Concentration: International Political Economy
Topics of study include the convergence of energy, economics, politics, and security.

University of Virginia
Charlottesville, VA
Bachelor of Arts, May 1995
Major: History

Professional Experience **CSRA (formerly SRA, International)**
Charlottesville, VA
Lead Analyst, working remotely from Bellingham, Washington
January 2009 to present
Among other projects, I am responsible for working with federal regulatory officials to produce annual reports that compile and explain trends in automotive fuel economy and air pollution. These reports are released to a national audience in the government, industry, and advocacy sectors. My own role spans each project's entire scope, including data extraction, verification, analysis, information design, and final print and online production.
My other projects involve data warehouse development, the analysis of large data sets, and the development of automated analytical tools, particularly using the R statistical analysis environment. I am particularly interested in sharing knowledge of analytical tools and methods with my colleagues, and have presented tutorials on the subject.
In addition to R, I use Oracle PL/SQL, Java, Python, and JavaScript.

Marshall Miller & Associates
Bluefield, VA
Geographic Information Systems (GIS) Project Manager
November 1998 to August 2007
As the lead geospatial technology specialist for a diversified energy and environmental consulting firm, I managed projects for both private- and public sector clients and developed GIS applications to support geology, engineering, and environmental projects. I also:

Professional Experience, Continued

Revised regulatory flood hazard maps for West Virginia communities
Evaluated the methane gas content of coal deposits in China
Reported and contested tax liability on mineral reserves owned by coal mining companies
Modeled the capacity for carbon storage in Appalachian coal seams for the Southeastern Regional Carbon Sequestration Partnership (SECARB)
Engaged in extensive international business development, writing proposals for a large-scale mine safety study in China and prospective energy projects in Kazakhstan, the Czech Republic, Ukraine, and other nations

**Virginia Department of Transportation
Charlottesville, VA**

Assistant to the Director of the GIS Lead Unit, March 1998 to May 1998
I suggested prototype GIS applications and promoted GIS within VDOT.

**Probe, Inc
Charlottesville, VA**

Graphic Designer and Network Administrator, March 1996 to May 1998

Travel and Language

Academic training in Spanish; German proficiency, including scholarship study in Germany during high school.
I represented my firm at the 2005 China Coal Show, held in Beijing.

Papers and Presentations

"Geologic Modeling for Highway Construction in ArcGIS," 2004 ESRI User Conference, San Diego, California. This presentation describes an approach to modeling stratigraphic geology from sparse drill hole data.

"Flood Mapping Opportunities," a presentation given to several state and regional GIS conferences since 2001, outlining the ways local organizations can become involved in flood hazard map improvements through FEMA.

"Stop Clicking, Start Typing," an introduction to automated data analysis presented to my colleagues along with a sample data set and guided tutorial.

"Coal Retirement Plan," an environmental policy proposal I composed and shared online. It was profiled by *The Atlantic* in October 2015.

Additional Interests

Online publishing and communication technology:
I have designed and maintained websites for my churches, a small-town cemetery, a Montessori preschool, an online journal of politics and culture, and other personal sites. Links are available upon request.

As a recent transplant to the Pacific coast, I enjoy all the outdoor recreation that the Northwestern US and British Columbia offer. I am the father of five.