

BENJAMIN D. SPAULDING, Ph.D.

bspauld@gmail.com - 860-416-8162 - 276 Willis Avenue, Medford MA 02155

PROFESSIONAL SUMMARY

Experienced researcher and analyst, specializing in technical aspects of data analysis and data management, with expertise in geospatial analytics. Proven history of being able to build successful data products and developing teams. Strong skills in learning and incorporating new technologies and analysis techniques into projects and workflows.

PROFESSIONAL EXPERIENCE

Senior Manager, Research Group, AIR Worldwide, Boston, Massachusetts, March 2015 to present

- Focus on designing, building, and implementing analysis and application projects to analyze large and diverse datasets
- Lead team of four analysts that builds and maintains AIR's Research Group's data stores
- Build and implement data QA procedures for AIR data products
- Identify, design, and improve workflows for AIR's data analysis processes
- Design and implement real time data collection processes into analysis tools

Manager, Research Group, AIR Worldwide, Boston, Massachusetts, March 2012 to March 2015

- With Data Management Group, developed innovative analysis and applications for AIR Worldwide's catastrophe model development, including database driven analyses and web-based visualization tools
- Led team that manages and maintains AIR's Research Group's data stores
- Supervised four research analysts, provided them technical training and guidance
- Increased usage of group's expanding data resources by various AIR Worldwide teams

Analyst, Data Management Group, AIR Worldwide, Boston, Massachusetts, June 2010 to March 2012

- Supervised two research analysts
- Developed and maintained AIR Worldwide's spatial database environment
- Built a number of applications to visualize and analyze data from AIR's diverse data stores
- Established large centralized database system to store, secure, and analyze data used in AIR's research processes, including sensitive data provide by clients
- Provided GIScience support to researchers for use in natural catastrophe modeling
- Executed post-catastrophe event loss analyses for several events for clients and measure hazard impacts for internal research projects
- Developed training materials for internal projects and datasets

Project Manager, Progeos, Tolland, Connecticut, September 2006 to April 2010

- Founding team member of venture backed software start-up
- Implemented online municipal workflow software for Progeos clients
- Evaluated, updated and upgraded client data used in Progeos software
- Designed and developed training modules and software documentation for clients
- Communicated with clients to troubleshoot data and software issues

Geographic Information System Technician, Map and Geographic Information Center (MAGIC), University of Connecticut, January 2005 to August 2009.

- Developed online mapping systems, and integrated MAGIC's spatial data into an internet based GIS interface
- Led MAGIC staff in the implementation of GIS data development projects
- Created online training documentation for MAGIC's website
- Assisted patrons with spatial data and analysis questions
- Managed MAGIC's website, online GIS databases and online mapping sites

TECHNICAL EXPERIENCE

Programming:

- Strong experience with Python (and numerous libraries), Transact SQL, C#,R
- Experience with SAS, fortran, PERL,MATLAB, HTML, Javascript, CSS

Software:

- Database: Microsoft SQL Server, PostgreSQL
- Programming: Visual Studio 2008-2012 and various other IDEs
- Analysis: SAS, SPSS, Excel, MATLAB, R
- Geographic Information Systems: QGIS, Esri, GRASS, PostGIS, SQL Spatial
- Web: Web Mapping (Esri, Google, Leaflet), Microsoft Internet Information Services, Microsoft SQL Server Reporting Services, D3
- Other: Adobe Suite, Microsoft Office, Google Docs

EDUCATION

Ph.D., Geography, May 2010, University of Connecticut, Storrs, Connecticut

Advisor: Dr. Robert Cromley

Dissertation Title: *“A Game Theoretic Approach to the Maximal Covering Prevention Location Problem”*

M.A., Geography, May 2006, University of Connecticut, Storrs, Connecticut

Advisor: Dr. Robert Cromley

Thesis Title: *“Integrating the Maximum Capture Location Problem into a GIS Framework”*

B.A., Geography, May 2004, *cum laude*, Keene State College, Keene, New Hampshire

WEBSITE

benjaminspaulding.com