

Geoffrey A. Muhlestein

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Summary

- Ability to integrate Geographic Information Science (GIS), Spatial and Statistical Analysis, Remote Sensing, Computer Science, and Earth Systems Science to efficiently and responsibly evaluate and solve real world problems
- Experienced with the utilization, adaptation, and customization of the current leading GIS software and related applications as a dynamic toolset for problem solving
- Applies contemporary cartographic techniques to the production of dynamic professional maps, illustrations, and animations to clearly illustrate geographic information and research results
- Possesses professional writing and presentation skills needed for the communication of scientific research, procedures, discussion, and results in a clear and concise manner
- Proficient with leading GIS and remote sensing software. Familiar with C++, Virtual Basin, Python, SQL, and other programming and scripting languages. Experienced with current office software suites. Comfortable working in Windows, Mac OS, and UNIX operating system environments

Education

Master of Arts, Geography

University of Colorado, Colorado Springs, CO

Related course work: Geographic Information Systems (GIS), Remote Sensing, Geomorphology, Environmental Problems and Solutions

*Expected:
2012*

Bachelor of Science, Geology

Southern Utah University, Cedar City, UT

Related course work: Stratigraphy, Sedimentology, Petrology, Mineralogy, Paleontology, Weather and Climate, Physics, Chemistry, Calculus

2006

GIS Certificate

Geographic Information Systems, Southern Utah University, Cedar City, UT

Related course work: GIS, Remote Sensing, Statistics, Database Management, Programming, GPS Technologies

2006

Associate of Science

Dixie State College, St. George, UT

Related course work: General undergraduate coursework

1997

Career History

- GIS Specialist and Staff Scientist**, *Applied Weather Associates, Monument, CO* 2006-
Present
- Conceptualize, implement, customize, and document various spatial analysis applications to aide in hydro-meteorological studies.
 - Production of maps, tables, and illustrations for use in working analysis, proposals, presentations, and final project reports. Assist in data-mining, data management, and report compilation
- GIS/GPS Instructor**, *Southern Utah University, Cedar City, UT* 2006
- Instructed two sections of the GIS/GPS portion of the Southern Utah University Geology Field Camp
 - Educated students on general GPS overview, hands-on use of the Trimble GeoExplorer GPS receiver, use of Pathfinder Office software, and use of ArcGIS Desktop software at the introductory level
- Private Science Tutor**, *State of Utah, Cedar City, UT* 2006
- Assisted a special needs undergraduate student with conceptualization, critical thinking, and problem solving skills in GIS, Programming, Statistics, and Mineralogy curriculum
- GIS Technician**, *Utah Geological Survey (Internship through Southern Utah University), Cedar City, UT.* 2004-
2005
- Used GIS software to digitize and attribute the digital version of the Geologic Map of the Abajo Mountains 1:50,000 scale and Geologic Map of Jordan Narrows 1:24,000 scale

Reports and Research

- Tomlinson, E.M., Kappel, W.D., Parzybok, T.W., Hultstrand, D., Muhlestein, G., June, 2008: Site-Specific Maximum Precipitation Study for the DeForest Lake Drainage Basin, NY
- Tomlinson, E.M., Kappel, W.D., Parzybok, T.W., Hultstrand, D., Muhlestein, G., April, 2008: Site-Specific Maximum Precipitation Study for the Florence Drainage Basin, AZ
- Tomlinson, E.M., Kappel, W.D., Parzybok, T.W., Hultstrand, D., Muhlestein, G., January, 2008: Site-Specific Maximum Precipitation Study for the Magma Drainage Basin, AZ
- GIS and Cartography for map used in: SPAS analysis of Parzybok, T., Hultstrand, D., Rappolt, B., Tomlinson, E., Kappel, W., December 2007: SPAS analysis of Thunderstorm August 4, 2004, Thunderstorm July 14, 2005, and Thunderstorm August 12, 2006, Jimmy Creek Drainage Basin, Colorado Springs, CO
- Tomlinson, E.M., Kappel, W.D., Parzybok, T.W., Hultstrand, D., Rappolt, B., Muhlestein, G., November, 2007: Site-Specific Maximum Precipitation Study for the Wanahoo Drainage Basin, NE
- Geoffrey A. Muhlestein, Mark R. Colberg and David J. Maxwell, 2006: An Interactive Geologic Map of Cedar City and the Coal Creek Canyon Area, Iron County, Utah. Presented at the Geologic Society of America Conference, May 2006, Gunnison, CO and at the Utah Academy of Science, Ephraim, UT, April 2006
- Witkind, I.J., Cantor, H.G., Griffin, P.C., Tuttle, D.R., Marshall, G.L., 1964: Geologic Map of the Abajo Mountains Area, San Juan County, UT. GIS Compilation in 2006, Project Manager: Grant Willis, Utah Geological Survey. GIS: Geoff Muhlestein, Bryan Anderson, Luke Ambrose, and David J. Maxwell of Southern Utah University. Cartography and additional GIS by J. Buck Ehler, Utah Geological Survey