**MARY WHELAN**

*Resume*

**Skills:**

* Extensive academic and administrative experience
* Strong oral and written communication skills
* Strong project management skills
* 10 years of experience in research data management, digital data, digital archiving, and digital curation
* 15 years of experience using GIS software (ArcGIS Desktop, ArcGIS Online) for spatial analysis, cartography and geoprocessing
* 25 years of experience giving public presentations, teaching workshops and classes
* 25 years of experience working with Microsoft Office (Access, Excel, Word, Outlook, PowerPoint, Visio) and Adobe Acrobat products
* 25 years of experience in archaeological field and lab data collection and analysis

**Education:**

M.S. 2003 Geographic Information Systems, University of Redlands

Ph.D. 1987 Anthropology, University of Minnesota (minors in Ecology & Geology)

M.A. 1981 Anthropology, University of Minnesota

B.A. 1977 Anthropology, Bryn Mawr College

**Employment History:**

* 2016-2017 GIS Analyst, Unit for Data Science, Arizona State University Library

Working with graduate students and staff, I provided geospatial data and analysis support for Data Science Projects. Projects included text mining, cluster analysis on documents, topic modeling, and network analysis. Projects were team based, including computer scientists, business analysts, and digital humanities professionals.

* 2008–2016 Geospatial Data Manager, Arizona State University Library

I serve as the point of contact for ASU students, faculty and staff who want information, consultation, support and training in GIS and in finding and using geospatial data. I manage, curate, create metadata and provide access to the ASU GIS repository, a storehouse of over 32,000 geospatial files available to the ASU community for use in teaching and research. As one of the ESRI software site license administrators at ASU I help ASU community members get access to ESRI on-line classes, provide software licenses, answer technical questions, and solve GIS IT problems that students, faculty, and staff may have. Geospatial services are increasingly moving online (SaaS), and I serve as one of the ArcGIS Online platform administrators for ASU students and faculty.

* 2007 Senior GIS Analyst, Maricopa County, Dept. of Public Works

Working as a Senior GIS Analyst for Maricopa County I updated and maintained the spatial and attribute data for the County roads network (streetnet). Using ACCESS, EXCEL and ArcGIS Desktop and Workstation ArcInfo, the work involved correcting road centerline alignments based on aerial imagery and creating road network routes.

* 2004–2007 Senior GIS Analyst, Arizona Dept. of Transportation

Working as a Senior GIS Analyst for ADOT I updated and maintained the spatial and attribute data for the Functional Classification and Storm Water Management databases associated with the statewide road centerline file (ATIS Roads). Using ACCESS, EXCEL and ArcGIS Desktop, the work involved geocoding road segments, researching and updating hydrographic and natural resource attribute data, producing custom maps for government personnel, and providing technical assistance to ADOT personnel.

* 2004 GIS Project Lead, Data Mapping Solutions, Scottsdale

Working as a GIS Project Lead I was responsible for supervising 3 GIS analysts and 1 senior GIS analyst. Our work involved collecting parcel data from counties across the U.S., standardizing the data format, translating data among GIS systems, georeferencing data files, digitizing from .tiff files, converting database table structures, and producing digital files for integration into a web based map format.

* 1994 – 2002 Associate Professor, Anthropology, University of Iowa

1987 – 1994 Assistant Professor, Anthropology, University of Iowa

Working as a University faculty member I taught undergraduate and graduate classes, supervised graduate student research, and conducted archaeological field and lab research. This work entails significant project management, including writing grant proposals, preparing budgets, supervising field and lab personnel, analyzing field results, and writing reports. I used ESRI ArcView and statistical analysis tools to create a geodatabase of archaeological artifacts and analyze the spatial distribution of the artifacts. Deliverables included interactive and paper map products, as well as statistical charts and graphs. I used Trimble GPS hardware and software to locate and analyze archaeological sites in Iowa.

**Recent Professional Development and Research Projects:**

* [Digital Archive of Huhugam Archaeology](https://daha.tdar.org/) (2017-2019) ASU grant funded research project - text mining of archaeological documents (<https://daha.tdar.org/> )
* [Expert Meeting on Spatial Discovery](http://spatial.ucsb.edu/2015/spatial-discovery) (2015) Invited participant, University of California at Santa Barbara (<http://spatial.ucsb.edu/2015/spatial-discovery> )
* National Editor (2015 - 2016) “Research DataQ” online data management resource website (<http://researchdataq.org/about> )
* National Endowment for the Humanities “[Digital Humanities Data Curation Institute](http://www.dhcuration.org/)” (2013) Invited participant (<http://www.dhcuration.org/> )
* National Endowment for the Humanities “[Institute for Enabling Geospatial Scholarship](http://www2.lib.virginia.edu/scholarslab/geospatial/)” (2010) Invited participant (<http://scholarslab.org/> )
* The [Transatlantic Archaeology Gateway (TAG) project](http://archaeologydataservice.ac.uk/TAG/intro.jsf) (2009-2011) ASU grant funded research project – integrated search functionality across different archaeology digital repositories (<https://archaeologydataservice.ac.uk/research/tag.xhtml> )

**Recent Professional Presentations**

* Green, William, Mary Whelan, Adam Barnes, William Whittaker, and Emilia Bristow (2016) “Gast Farm Revisited: New Tools Revitalize ‘Old’ Data.” Poster presentation, 60th meeting of the Midwest Archaeological Conference, Iowa City, IA.
* McManamon, Francis P., Adam Brin, and Mary Whelan (2013) “Providing for Access to, and Preservation of, Archaeological Information Using Digital Technology.” Paper presented at the Archaeological Institute of American Annual Meeting, Seattle, WA.
* Whelan, Mary (2012) “Trusted Digital Repositories and Archaeology.” Forum: Digital Data Standards and Best Practices Needed for Access to, and Preservation of, Archaeological Information. Discussant at the 77th Annual Meeting of the Society for American Archaeology, Memphis, TN.