

CAREER SUMMARY

A GIS program leader and senior consultant responsible for ensuring timely, organized, predictable delivery of multiple, overlapping projects. Over six years building on successes, managing national clients, strategic partnerships, resources and GIS revenue generating initiatives. Broad business experience with land conservation initiatives, field studies, applied GIS techniques and development of intellectual capital.

Client Engagement Management • Applied GIS Techniques/Methodologies • Partner Relationships

ESRI ArcGIS Software Expert • Database Collection • Modeling / Layer Displays • Data Analytics

PROFESSIONAL EXPERIENCE

National GIS Program Manager, The Trust for Public Land (TPL), Santa Fe, NM 2003 - 2008

(National, nonprofit, land conservation organization focused on ensuring livable communities with parks, community gardens, historic sites, rural land, and other natural places)

Successful, on-time delivery of multiple GIS Greenprinting and non-Greenprinting projects for Federal and local government and commercial customers which contributed directly to the growth of TLP's successful GIS practice, its development of valuable intellectual capital (IC) and ~\$1.2M profitable annual revenues.

- GIS Project Manager and/or Model Implementer for 22 Greenprinting landscape prioritization studies across 13 states enabling clients to make informed decisions about land conservation planning and acquisition strategies.
- GIS Program Manager for nearly 60 non-Greenprinting research studies across 40 states. Examples of TPL study initiatives/programs included: Centers for City Park Excellence, Parks for People, Land and Water, Natural Lands Financial Analyses, Healthy Parks / Healthy Communities, and Conservation Trends/Metrics, each of which enabled informed decision-making regarding conservation issues.
- Each involved creative project leadership, data mining and manipulation, development of GIS models using spatial analysis tools and creation of innovative geoprocessing modeling techniques and TPL IC. Each allowed adaptation of TPL's custom statistical tools to assess multiple resource attributes in large landscapes containing multiple jurisdictional boundaries.
- Developed and refined repeatable models using Environmental Systems Research Institute (ESRI) ArcGIS software that allowed GIS analysis and results and formed the basis of TPL's valued IC.
- Primary GIS support contact for TPL's 20 power to medium user community, providing the subject matter expertise to resolve software and customer issues quickly.

GIS Consulting Specialist, Santa Fe, NM

2001-2003

Earth Analytics, Santa Fe, NM, GIS Specialist

Winter 2001-2003

- Multiple successful projects delivered on schedule involving geo-referenced data, digitized maps, layers displays, data analytics, and location displays of tabular data using ArcGIS and/or ArcPad.
- Performed GIS duties as a sub-contractor to TPL by collecting GIS data for twenty of the largest cities in the U.S. and creating demographic GIS models for in-depth park and open space analysis.

Archaeologist / GIS Consulting Specialist, Santa Fe, NM

2001-2003

Ecosystem Management, Inc., Albuquerque, NM, Archaeologist Crew Chief

Fall 2003

- Successful 90-day survey of prehistoric/historic components in Gila National Forest, on time and within budget, leading a four member field team. Nine additional successful prehistoric/historic field surveys and excavations across New Mexico.

STRONG GIS AND IT SKILLS

- ArcGIS 9.2, ArcIMS 9, ArcInfo, ArcView, and ArcGIS 3.2.
- ArcGIS Extensions: spatial analyst, network analyst, ArcHydro
- ArcGIS Model Builder framework for landscape / spatial analysis customized solutions
- MS Office Suite

WORK SKILLS

Advanced skills and experience in the following, including development of GIS intellectual capital:

- Advance modeling: connectivity, habitat protection, water quality protection
- Dynamic service area analysis using the network analyst extension
- Demographic analysis of U.S. Census block group data
- Health related analysis, building and advancing previous health-related studies or research
- Extensive knowledge of protected or managed lands at state and national levels
- Excellent documentation, editing and cartographic skills.
- Strong collaborative and training skills as well as independent contributor
- Hands-on leadership experience across non-profit environmental conservation, private and governmental sectors
- Creative application of ArcHydro data model and tools for real water resource solutions
- Adapting TPL's custom statistical tools to assess multiple resource characteristics across large landscapes using jurisdictional, watershed and/or U.S. Census boundaries
- Collaborative development of custom tools to standardize and streamline analytical frameworks
- Development of a demographics and park service query tool to assist with park legislation parameters for allocation of California's Proposition 84 bond revenues
- Project examples and letters of recommendation – www.woodyduncangis.com

EDUCATION

MA, Southwest Studies, New Mexico Highlands University (GPA 4.0) 2003

Graduate Assistant (Spring 2000 – Spring 2001)

BA, Anthropology and Sociology, Denison University 1993

GIS TRAINING

ESRI Instructor Led Courses

Cartography with ArcGIS Fall 2005

ArcHydro 2004

Introduction to ArcIMS 2004

What's New in ArcGIS 9 2004

Working with ArcGIS Spatial Analyst 2004

Building Geodatabases I and II 2004

Intro to ArcGIS II 2003

ESRI Virtual Campus Courses

Learning ArcGIS 8, Parts I and II 2003

SPECIAL ACHIEVEMENTS

AWARDS

- 2005 ESRI International User Conference, GIS Special Achievement Award
- 2006 ESRI International User Conference, Best Analytical Poster Award (2nd Place)
- 2007 ESRI Southwest Users Group Conference, Poster Award (2nd Place)

PROFESSIONAL PAPERS

- Using Demographic Analysis to Determine Park and Open Space Equity – 2006 ESRI International User Conference
- A Conservation Strategy for the Quinault Indian Nation – 2007 Indigenous Mapping Network Conference

BOOKS

- Making Marks: Graduate Studies in Rock Art Research at the New Millennium,
(edited by Huang, Jennifer KK and Culley, Elisabeth V.)
Chapter 11 – A Study of Design Element Patterns Associated with Petroglyph Faces
Bisected by Rock Angles at Archaeological Site LA 9064

PROFESSIONAL REPORTS

- Duncan, Kenneth Y., Berenika Byszewski, William Penner, and Wetherbee Dorshow 2003
A Cultural Resources Assessment of Approximately 65 Acres for Proposed Fence Lines and Road Improvement Projects on Lands within the Pueblo of Santa Ana, Sandoval County, New Mexico
Earth Analytic, Research Report EA 85, Santa Fe, NM
- Penner, William, Kenneth Duncan, Berenika Byszewski, and Wetherbee Dorshow 2003
Cultural Resources Assessment of Approximately 70 Acres for the Weir and Access Road at the Pueblo of Santa Ana, Sandoval County, New Mexico
Earth Analytic, Research Report EA 66.01, Santa Fe, NM
- Penner, William, Berenika Byszewski, Kenneth Duncan, and Wetherbee Dorshow 2002
An End of Project Summary of Findings and Results from Limited Site Testing: The Jemez Reservoir Weir and Access Road and Tamaya Archaeological Study Areas
Earth Analytic, Santa Fe, NM
- Penner, William, and Wetherbee Dorshow 2002
A Brief Summary of Findings and Results from Limited Site Testing: The Jemez Reservoir Weir and Access Road and Tamaya Archaeological Study Areas
Earth Analytic, Santa Fe, NM
- Duncan, Kenneth, Wetherbee Dorshow, Berenika Byszewski, and William Penner 2002
A Cultural Resources Assessment of 310 Acres for the El Paso Road and Drilling Development 2003 at the Vermejo Park Ranch, Colfax County, New Mexico
Earth Analytic, Santa Fe, NM
- Penner, William, Berenika Byszewski, Wetherbee Dorshow, and Kenneth Duncan 2001
A Cultural Resources Assessment of 479 acres for the Proposed 2003 Tamaya Pueblo Pond Modification Project, Pueblo of Santa Ana Reservation, Sandoval County, New Mexico
Earth Analytic, Research Report EA 66.02, Santa Fe, NM