

**Shawn L. Penman**

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EDUCATION

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PhD, Anthropology, 2002, University of New Mexico  
MA, Anthropology, 1991, University of New Mexico  
BS, Anthropology, 1987, University of New Mexico  
Dissertation Title: Colonowares as Markers of Acculturation, Pecos Pueblo, New Mexico.

EMPLOYMENT SUMMARY

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2013- Pres	UNM, Earth Data Analysis Ctr.	GIS Specialist/Programmer
2003 –2012	UNM, Earth Data Analysis Ctr.	GIS Specialist
1994 – 2002	UNM, Earth Data Analysis Ctr.	Student GIS Tech

TEACHING EXPERIENCE

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2018 GIS 101: Core Geography: Origins of GIS Profession. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 20 March 2018.

2018 Introduction to GIS. New Mexico LTAP. 13 March 2018.

2018 GIS 201: Geospatial Metadata. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 15 January 2018.

2016 GIS 161: Making the Most of the Web for GIS. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 27 September 2016.

2016 GIS 102: Vector Data: Input. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 14 March 2016.

2016 GIS 202: Vector Data: Input Practicum. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 14 March 2016.

2015 GIS Fundamentals, UNM GEOG 581.001. Graduate level introduction to GIS, combining lecture, hands on classroom experience, GIS exercises and projects. Fall Semester 2015.

2015 GIS Fundamentals, UNM GEOG 581.001. Graduate level introduction to GIS, combining lecture, hands on classroom experience, GIS exercises and projects. Spring Semester 2015.

- 2015 GIS 102: Vector Data: Input. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. . New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 26 March 2015.
- 2015 GIS 155: GIS Presentation Skills. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 24 March 2015.
- 2015 GIS 162: Integrating and Manipulating Data Sets. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 24 March 2015.
- 2015 GIS 201: Geospatial Metadata. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 19 January 2015.
- 2014 GIS 102: Vector Data: Input. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. . New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 28 October 2014
- 2014 GIS 203: Basic Topology. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. . New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 28 October 2014.
- 2014 GIS 104: Understanding Coordinate Systems and Projections. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 10 September 2014.
- 2014 GIS 162: Integrating and Manipulating Data Sets. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 12 March 2014.
- 2014 GIS Fundamentals, UNM GEOG 581.001. Graduate level introduction to GIS, combining lecture, hands on classroom experience, GIS exercises and projects.
- 2014 GIS 155: GIS Presentation Skills. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 21 January 2014.
- 2013 GIS Fundamentals, UNM GEOG 581.001. Graduate level introduction to GIS, combining lecture, hands on classroom experience, GIS exercises and projects.
- 2013 GIS 104: Understanding Coordinate Systems and Projections. New Mexico Certified GIS Specialist Designation, NM Edge Program, New Mexico State University. 10 September 2013
- 2013 Introduction to ESRI ArcMap for New Mexico Department of Health EPHT Program. One day GIS training. 13 March 2013.
- 2012 GIS Fundamentals, UNM GEOG 581.001. Graduate level introduction to GIS, combining lecture, hands on classroom experience, GIS exercises and projects.
- 2011 GIS Fundamentals, UNM GEOG 581.001. Graduate level introduction to GIS, combining lecture, hands on classroom experience, GIS exercises and projects.
- 2000 Senior Teaching Assistant, UNM Archaeological Field School, San Marcos Pueblo, New Mexico directed by Dr. Ann F. Ramenofsky and Dr. Christopher Pearce.
- 1999 Teaching Assistant, UNM Archaeological Field School, San Marcos Pueblo, New Mexico directed by Dr. Ann F. Ramenofsky and Dr. Christopher Pearce.

- 1994 Teaching Assistant, UNM Archaeological Field School, Ojo Caliente, New Mexico directed by Dr. Ann F. Ramenofsky.
- 1992 Instructor, Anthropology Department, UNM ANTH 120: Digging Up our Past, Introductory Archaeology class. Developed course syllabus, lecture, and wrote and graded exams for class of 70-80 students.
- 1992 Instructor, Anthropology Department, UNM ANTH 121L: Introductory Archaeology Laboratory. Developed and graded weekly labs and gave lectures for class of 15 students.
- 1990 Instructor, Anthropology Department, UNM ANTH 120: Digging Up our Past, Introductory Archaeology class. Instructor for half of semester after Professor became ill. Developed weekly lectures and wrote and graded exams for class of 30-40 students.

#### CERTIFICATIONS

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- 2007 Certified Floodplain Manager (CFM)
- 2006 Certified GIS Professional (GISP)

#### TECHNICAL COURSES

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- 2017 Cooperating Technical Partners (CTP): Special Topics, E0241, Emergency Management Institute, Emmitsburg, Maryland 2013 Cooperating Technical Partners (CTP): Special Topics, E0241, Emergency Management Institute, Emmitsburg, Maryland
- 2014 Cooperating Technical Partners (CTP): Special Topics, E0241, Emergency Management Institute, Emmitsburg, Maryland 2013 Cooperating Technical Partners (CTP): Special Topics, E0241, Emergency Management Institute, Emmitsburg, Maryland
- 2011 Building Web Applications Using the ArcGIS API for Flex, ESRI, Albuquerque, NM
- 2010 Building Web Application Using the ArcGIS API for Microsoft Silverlight, ESRI, Albuquerque, NM
- 2010 Programming the ArcGIS Server for Flex, Geospatial Training Services
- 2009 Introduction to ArcGIS Server, Albuquerque, NM
- 2004 Presenting Data and Information, Edward Tufte, Albuquerque, NM
- 2003 Terrain Analysis for Environmental Applications, San Diego, CA
- 2003 Building Geodatabases I, ESRI, Albuquerque, NM
- 2003 Building Geodatabases II, ESRI, Albuquerque, NM

#### TECHNICAL EXPERTICE

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GIS packages: ArcGIS 10.x, ArcView 3.x, Arc/Info, ArcServer  
Geographic Positioning Systems (GPS): Trimble  
Operating Systems: Windows 2000, XP  
Computer Programs: Microsoft Office, Microsoft Visio, Microsoft Excel  
Programming Languages: HTML, AML

## PROFESSIONAL DEVELOPMENT

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- 2016 Workplace Writing Skills. Career & Professional Development Programs, University of New Mexico Anderson School of Management.
- 2014 Executive Negotiations. Career & Professional Development Programs, University of New Mexico Anderson School of Management.
- 2014 Women's Leadership Development. Career & Professional Development Programs, University of New Mexico Anderson School of Management.
- 2014 Practical Project Management. Career & Professional Development Programs, University of New Mexico Anderson School of Management.

## RECENT PROJECTS

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- Risk Hazard Portfolio for the State of New Mexico, Cooperating Technical Partner Program, FEMA Region 6.
- Developing a GIS for the New Mexico Department of Homeland Security and Emergency Management.
- Developing, programming and maintaining the NMWatch website – a wildfire outreach website, using ESRI ArcServer and the Javascript API.
- Developing a GIS for the New Mexico Public Schools Facilities Authority.
- IPA with Center for Disease Control, Native Diabetes Wellness Program (NDWP) for Geographic Information (GIS) Support Services.
- Working with the New Mexico Department of Health to develop the New Mexico Environmental Public Health Tracking Network (EPHT) in conjunction with the US Center for Disease Control.
- Working with the New Mexico State Forestry Division to develop a fire risk model for the state of New Mexico and develop a methodology for modeling local fire risk
- Geocoding vital records (birth and death) for the New Mexico Department of Health Vital Records and Statistics projects.
- Working with the New Mexico Department of Health to explore arsenic contamination of drinking water wells in New Mexico. This involved creating GIS files for drinking water well locations, examining arsenic levels and analyzing areas of high arsenic content.
- Working with NM Department of Health and community stakeholders to develop presentations showing risk factors in local communities. This involved geocoding police arrest data, and adding alcohol crash data, socioeconomic data from US Census, and data provided by community groups in order to perform spatial analysis to identify community problems and areas of concern.
- Working with NM Department of Health and community stakeholders to design, develop and maintain a GIT database and presentations related to underage drinking. This involved gathering and geocoding police response data, alcohol outlet locations and deaths related to drug and alcohol use, and adding alcohol crash data and US Census socioeconomic data to analyze spatial patterns and identify areas of high alcohol use and related community problems.

PUBLICATIONS

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2017

Pinson, Arianne O. and Shawn L. Penman. Re-excavating Nelson's Rooms: The Roomblock 13 Excavations. In: Ann F. Ramenfosky and Kari L. Schleher, editors. *The Archaeology and History of San Marcos Pueblo: Change and Stability*. University of New Mexico Press.

PRESENTATIONS AND POSTERS

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- 2016 New Mexico Multi-Hazard Risk Portfolio. New Mexico Geographic Information Council (NMGIC) Fall Workshop, October 21, 2016. Albuquerque, NM.
- 2015 Shawn L. Penman. GIS Tips, Tricks and Best Practices for Floodplain Managers. New Mexico Floodplain Managers Association (NMFMA) Fall Workshop, October 7-9, 2015, Ruidoso, NM.
- 2015 Shawn L. Penman. *GIS Tips, Tricks and Best Practices*. New Mexico Floodplain Managers Association (NMFMA) Spring Workshop, April 15-17, 2015, Albuquerque, NM.
- 2013 Shawn L. Penman. Presenting Data, NMGIC Spring Workshop. New Mexico Geographic Information Council Spring 2013 Workshop. April 11, 2013, Albuquerque, NM.
- 2012 Jacqueline Baros, Paul Neville and Shawn Penman. *Introduction to LIDAR Data for Floodplain Management & Demonstration Project: Lost in the Los Conchas Fire*. New Mexico Floodplain Managers Association (NMFMA) Spring Workshop, March 13-16, 2012, Socorro, NM.
- 2011 Shawn L. Penman. *NMWatch.org*. New Mexico Floodplain Managers Association (NMFMA) Fall Conference. Ruidoso, NM. September 21-23, 2011.
- 2011 Shawn L. Penman. *NMWatch – Natural Disasters Outreach Website*. Fall 2011 New Mexico Geographic Information Council (NMGIC) Meeting. October 28, 2011.
- 2010 Shawn L. Penman. *GIS as a Powerful Communication and Community Empowerment Tool*. Poster presented at CDC Diabetes Translation Conference 2010, April 13-16, Kansas City, Missouri.
- 2009 Shawn L. Penman. *How GIS can be used in promoting and selling your traditional foods project*. Presentation at The Centers For Disease Control And Prevention: Using Traditional Foods And Sustainable Ecological Approaches For Health Promotion And Diabetes Prevention In American Indian/Alaska Native Communities Cooperative Agreement Meeting. Albuquerque, NM. January 2009.
- 2009 Chandra Bales, Stanley Morain, Orrin Myers, Heidi Krapfl, Thomas Budge, Shawn Penman. New Mexico Tracking and NASA Air Quality Data for User Communities. 2009 National Environmental Public Health Conference October 2009 Atlanta, GA..
- 2007 Shawn L. Penman. *Basic GIS for Floodplain Managers*. 2007 NMFMA Fall Conference, Farmington, NM.
- 2007 Shawn L. Penman. *EDAC/RGIS Resources for Floodplain Managers*. 2007 NMFMA Fall Conference, Farmington, NM.

- 2005 Barbara Malczewska-Toth, Chandra Bales, Shawn L. Penman, Gina Aranda. *A Design for the New Mexico EPHT System Plan*. 2005 National EPHT Conference. April 2005, Atlanta, GA
- 2004 *Geocoding in New Mexico, The Thrill of Victory and the Agony of Defeat*. The Sixth Annual New Mexico Data Users Conference, 17 November 2004, Albuquerque, NM.
- 2004 Helen Flowers, Amy Lay, Shirley Baros, Shawn L. Penman. *Arsenic in Drinking Water Linkage with Tumor Registry Data for New Mexico*. Poster presented at the 2004 National EPHT Conference. March 2004, Philadelphia, PA.
- 2004 Chandra Bales, Shawn L. Penman, Barbara Malczewska-Toth, Gina Aranda. *A Conceptual Design for the New Mexico EPHT System*. Poster presented at the 2004 National EPHT Conference. March 2004, Philadelphia, PA.
- 2004 William Athas, Helen Flowers, Shawn L. Penman, Shirley Baros. *Geographic Distribution of Street and Non-Street Addresses in State Cancer Registry Records: Implications for Geocoding Health Surveillance Data in New Mexico*. Poster presented at the 2004 EPHT Workshop. October 2004, San Francisco, CA
- 2004 Barbara Malczewska-Toth, Chandra Bales, Shawn L. Penman, Gina Aranda. *Messaging and Security in the New Mexico System Prototype*. Poster presented at the 2004 EPHT Workshop. October 2004, San Francisco, CA
- 2004 Shawn L. Penman and Chandra Bales. *NM EPHT Prototype Development: Data Confidentiality and System Security*. Presentation at the NM DOH EPHT Planning Consortium Workshop. 17 June 2004, Albuquerque, NM.
- 2004 Shawn L. Penman and Chandra Bales. *NM EPHT Prototype Development: Introduction to the New Mexico EPHT System Prototype*. Presentation at the NM DOH EPHT Planning Consortium Workshop. 7 October 2004, Albuquerque, NM.
- 2003 Shawn L. Penman and Chandra Bales. *NM EPHT Prototype Development: Conceptual Design*. Presentation at the NM DOH EPHT Planning Consortium Workshop. 30 October 2003, Albuquerque, NM.
- 2001 Shawn L. Penman. *Pecos, St. Augustine, and Buenos Aires: Colonowares of the Spanish Empire*. Paper presented at the 66th Annual Meeting of Society for American Archaeology, New Orleans, Louisiana.
- 1998 Shawn L. Penman, Ann F. Ramenofsky, Christopher Pierce, David Vaughn, Eden A. Welker  
*Will the Real San Marcos Pueblo Please Stand Up: An Examination of Bias and Errors in Site Maps*. Poster presented at the 63<sup>rd</sup> Annual Meeting of Society for American Archaeology, Seattle, Washington.
- 1998 Shawn L. Penman. *Soup Plates, Bleeding Bowls, and Chamber Pots: Colonowares at Pecos*. Paper presented at the 71<sup>st</sup> Annual Pecos Conference, Pecos National Historic Park.
- 1997 Ann F. Ramenofsky, Shawn L. Penman, Richard Flint, Shirley C. Flint, and William X. Chavez. *Preliminary Report of Testing at Comanche Springs*. Report submitted to Valley Improvement Association. Belen, New Mexico.
- 1997 Shawn L. Penman. *Maps of Pecos, 80 Years after Kidder*. Poster presented at the 62<sup>nd</sup> Annual Meeting of Society for American Archaeology.

- 1997 Shawn L. Penman. *Modern Technology Breathes Life into Dusty Archaeological Maps*. Paper presented at the 1997 Annual Assembly and summer Retreat of the University Consortium for Geographic Information Science, Bar Harbor, Maine.
- 1997 Shawn L. Penman. *Maps of Pecos Pueblo*. Poster presented at the 1997 ESRI Worldwide Users Conference, San Diego, California.
- 1997 Christopher Pierce and Ann F. Ramenofsky. *Report on Archaeological Research at Pueblo San Marcos (LA98) during 1990 by the University of New Mexico*. With contributions by: Ariane Oberling Pinson, Shawn Penman and David Vaughn. Report submitted to The Archaeological Conservancy and the New Mexico Office of Historic Preservation.
- 1997 Shawn L. Penman and Garth Bawden. *El Complejo Burro Flaco: Comunidades Pescadoras del Periodo Intermedio Tardo*. In Moquegua: Los Primeros Doce Mil Años, edited by Karen Wise. Museo Contisuyo, Moquegua, Perú.
- 1996 Shawn L. Penman and Jeremy Kulisheck Organizers Symposium, *Regional Perspectives on Native/Spanish Contact in the U. S. Southwest, AD 1500-1700*. 61<sup>st</sup> Annual Meeting of Society for American Archaeology, New Orleans, Louisiana.
- 1996 Shawn L. Penman. *Variation or Uniformity? The Contact Period in the Southwest*. Paper presented at the 61<sup>st</sup> Annual Meeting of Society for American Archaeology, New Orleans, Louisiana, New Orleans, Louisiana.
- 1995 Shawn L. Penman Ann F. Ramenofsky, Anastasia Steffen and Steve Dominguez. *Surface Investigations of High-Low Density Records in the Lower Chama Valley*. Poster presented at the 60<sup>th</sup> Annual Meeting of Society for American Archaeology, Minneapolis, Minnesota.
- 1994 Ann F. Ramenofsky, Shawn L. Penman, Anastasia Steffen and Steve Dominguez. *Surface Archaeology in the Lower Chama Record: The Low-Density Record*. Paper presented at the 67<sup>th</sup> Annual Pecos Conference, Mesa Verde National Park.
- 1994 Ann F. Ramenofsky and Shawn L. Penman. *Surface Archaeology in the Lower Chama Record: The High-Density Record*. Paper presented at the 67<sup>th</sup> Annual Pecos Conference, Mesa Verde National Park.
- 1994 Ann F. Ramenofsky, Shawn L. Penman, and Anastasia Steffen. *Stable Mesa Ruin Mapping Project: University of New Mexico, 1995-1996*. Ms. On file, Supervisor's Office, Santa Fe National Forest, Santa Fe, New Mexico.
- 1991 Shawn L. Penman and Garth Bawden. *The Burro Flaco Complex*. Paper presented at the 56<sup>th</sup> Annual Meeting of Society for American Archaeology, New Orleans, Louisiana.
- 1991 Shawn L. Penman. *Nuevas evidencias del trabajo en cobre en la costa de Ilo*. Suplemento Cobre No. 1, Southern Peru Copper Corporation, Lima, Peru.

#### PUBLISHED MAPS

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Ramenofsky, Ann F. and Kari L. Schleher, editors. *The Archaeology and History of San Marcos Pueblo: Change and Stability*. University of New Mexico Press. 15 maps.

Mohr, Beth A; *Feeling Blue in the South Valley, A Case Study of Nitrate Contamination in Albuquerque's South Valley*. *Bulletin of Science, Technology & Society*. Prepublished January 1, 2010. DOI: 10.1177/0123456789123456.

Ramenofsky, A. F. and C. David Vaughan; “Jars Full of Shiny Metal”: Analyzing Coronado’s Visit to Yunque-Yunque.; Richard C. Flint and Shirley C. Flint; *The Coronado Expedition from the Distance of 460 Years*, pp.116-139. University of New Mexico Press. 2003

Ramenofsky, Ann F. and James K. Feathers; Documents, Ceramics, Tree-Rings and Luminescence: Estimating Final Native Abandonment from the Lower Rio Chama. *Journal of Anthropological Research* 58: 121-159. Calgary: Proceedings of the 30<sup>th</sup> Chacmool Archaeological Conference, pp. 51-64. 2000.

Ramenofsky, A. F. On the Question of Infectious Disease in New Mexico, 1540-1680. *Journal of Anthropological Research* 52:161-184. 1996

Ramenofsky, A. F., and C. D. Pierce. Time and Population from the Surface: The Case at San Marcos Pueblo, North Central New Mexico In *Archaeological Concepts for the Study of the Cultural Past*, edited by Alan Sullivan. Foundations of Archaeological Inquiry. University of Utah Press. [in press]

#### AWARDS

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|-----------|---|
| 2014      | Les Bond Floodplain Management Award, New Mexico Association of Floodplain Managers.  |
| 2013      | Finalist in National Association of State Chief Information Officers (NASCIO) 2013 Recognition Awards for Outstanding Achievement in the Field of Information Technology. |
| 2010      | People’s Choice Award, CDC Diabetes Translation Conference 2010, April 13-16, Kansas City, Missouri.  |
| 2003      | ESRI Special Achievement in GIS Award   |
| 1998      | Runner-up Student Poster Competition, Society for American Archaeology Annual Meeting, Seattle, Washington.   |
| 1997      | Runner-up Student Poster Competition, Society for American Archaeology Annual Meeting, Nashville, Tennessee.  |
| 1997-1998 | P.E.O. Scholar Award.   |

#### HONORS

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- Phi Beta Kappa
- Golden Key National Honor Society

#### PROFESSIONAL ASSOCIATIONS

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- New Mexico Geographic Information Council
- New Mexico Floodplain Managers Association

#### VOLUNTEER ACTIVITIES

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- Secretary, New Mexico Floodplain Managers Association
- New Mexico Big Brothers Big Sisters mentor2.0 Volunteer