

**Charles A. Speer**  
921 S. 8th Avenue, Stop 8005  
Pocatello, Idaho 83209-8005  
cell 210-885-1815  
charles.speer@gmail.com

## EDUCATION

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***Ph.D., Ecological Anthropology*** 2013

University of Texas at San Antonio, San Antonio, Texas - Dissertation Title: *Clovis Mobility at the Gault Site: A Chert Provenance Study Using Laser Ablation - Inductively Coupled Plasma - Mass Spectrometry.*

***M.A., Anthropology*** 2006

University of Texas at San Antonio, San Antonio, Texas - Thesis Title: *The Mechanical Effects of Thermal Alteration on Edward's Chert and Archaeological Applications.*

***B.A., Anthropology*** 2003

University of Texas at San Antonio, San Antonio, Texas.

## APPOINTMENTS

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***Associate Professor***

*2020 to present*

Department of Anthropology at Idaho State University, Pocatello, Idaho – Paleoindian studies, lithic technology, traditional knowledge, experimental archaeology, ancient craftsmanship, field methods, and interdisciplinary research investigating topics related to Peopling of the New World.

***Curator of Anthropology***

*2016 to present*

Idaho Museum of Natural History at Idaho State University, Pocatello, Idaho – Research, collections management (scholarly, technical, applied, & NAGPRA), exhibits development, public service/outreach, & grants writing. Tasked with developing and improving of relations with Shoshone-Bannock Tribes; annual tribal meetings, repatriation consultations, and guided collections visits. Supervised multiple paid internships each semester.

***Assistant Professor***

*2015 to 2020*

Department of Anthropology at Idaho State University, Pocatello, Idaho – Paleoindian studies, lithic technology, traditional knowledge, experimental archaeology, ancient craftsmanship, field methods, and interdisciplinary research investigating topics related to Peopling of the New World.

***Post-Doctoral Research Associate***

2013 to 2015

The Gault Archaeological Project (now Prehistory Research Project at TARL) at Texas State University, San Marcos, Texas – Interdisciplinary research investigating topics related to Peopling of the New World.

***Lecturer I***

2009 to 2012

University of Texas at San Antonio, San Antonio, Texas - Introductory archaeology and anthropology classes.

***Master Teaching Fellow***

2008 to 2009

University of Texas at San Antonio, San Antonio, Texas - Teaching and mentoring related tasks, such as: TA training, focus groups, microteaching sessions, and observations in several departments. Teaching related projects for Teaching and Learning Center to improve faculty teaching skills for university mission goals.

***Research Scientist Associate II***

2004 to 2007

Center for Archaeological Research, UTSA, San Antonio, Texas –Archaeological investigations in Texas and surrounding areas. Cultural resource management; supervised and trained volunteers, interns, and other employees. Report writing and collaboration.

**PEER REVIEWED PUBLICATIONS**

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- Speer, Charles A. (editor); Ryan Parish (editor), Gustavo Barrientos (editor), 2021 “*Sourcing Archaeological Lithic Assemblages: New Perspectives and Integrated Approaches*”; edited volume; 305 pages, University of Utah Press, Salt Lake City; in review.
- Speer, Charles A. 2021, “Elemental Analysis of Chert for Understanding Formation Processes Using INAA” in *Sourcing Archaeological Lithic Assemblages: New Perspectives and Integrated Approaches*, Charles A. Speer, Ryan M. Parish, and Gustavo Barrientos, editors, pages 16-30, University of Utah Press, Salt Lake City; in review.
- Speer, Charles A. 2021, “Introduction” in *Sourcing Archaeological Lithic Assemblages: New Perspectives and Integrated Approaches*, Charles A. Speer, Ryan M. Parish, and Gustavo Barrientos, editors, pages 1-15, University of Utah Press, Salt Lake City; in review.
- Speer, Charles A. 2021, “Simulating Organic Projectile Point Damage on Bison Pelves” *Journal of Archaeological Science: Reports*, 15 pages, in progress.
- Speer, Charles A. 2020, “The Kimberly Mammoth: Dating and Excavation”, *Idaho Archaeologist*, 10 pages, in review.
- Speer, Charles A., Kenneth C. Reid, Matthew J. Root, and Richard E. Hughes 2019 “The Seagull Bay Site - Clovis Technology from American Falls on the Eastern Snake River Plain.” *North American Archaeologist* 40(3):148-166.

- Speer, Charles A. and Thomas A. Jennings 2019 “Clues to Clovis Mobility from Geochemical Sourcing of Bifaces in the Hogeye Cache, Texas.” *Journal of Archaeological Science: Reports* Volume 28, December 2019, article 102032.
- Speer, Charles A. 2018 “Understanding Chert Formation Processes using Trace Element Analysis”, *Quaternary Science Reviews*, 215:196-212.
- Speer, Charles A. 2017 “Precision Control in Flintknapping Experiments Using Porcelain Replicas" *Advances in Archaeological Practice* 6(1):72-81.
- Speer, Charles A. 2016 “A Comparison of Instrumental Techniques at Differentiating Outcrops of Edwards Plateau Chert at the Local Scale." *Journal of Archaeological Science Reports*, Special Issue, 7:389-393.
- Speer, Charles A. & Ryan M. Parish (editors), 2016 “Case Studies in Chert Sourcing and Identification" *Journal of Archaeological Science Reports*, Special Issue.
- Speer, Charles A., 2014. “LA-ICP-MS analysis of Clovis period projectile points from the Gault Site.” *Journal of Archaeological Science* 52: 1-11.
- Speer, Charles A. 2014 "Experimental sourcing of Edwards Plateau chert using LA-ICP-MS." *Quaternary International* 342:199-213.
- Speer, Charles A. 2010 "Understanding the effects of heat treatment on Edwards Plateau chert." *Ethnoarchaeology: Journal of Archaeological, Ethnographic, and Experimental Studies* 2(2):153-172.

## PROFESSIONAL PRESENTATIONS

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- Speer, Charles A., Paper Presentation at 1st Annual Donald Crabtree Conference of Experimental Archaeology, Pocatello, Idaho, September 12-13, 2019; Title: *Opening Remarks*.
- Speer, Charles A., Conference Organizer of 1st Annual Donald Crabtree Conference of Experimental Archaeology, Pocatello, Idaho, September 12-13, 2019.
- Speer, Charles A., Paper Presentation at 84th Annual Society for American Archaeology Meetings; Albuquerque, New Mexico, April 10-14, 2019; Title: *Simulating Organic Projectile Point Damage on Bison Pelves*.
- Parish, Ryan M., Speer, Charles A., and Barrientos, Gustavo. Symposium Co-Organizer at 11<sup>th</sup> International Symposium on Knappable Materials; Buenos Aires, Argentina, November 7-12, 2017; Title: *Chert Sourcing and Provenance Studies: Theory, Methods, and Applications*
- Speer, Charles A., Paper Presentation at 11<sup>th</sup> International Symposium on Knappable Materials; Buenos Aires, Argentina, November 7-12, 2017; Title: *Elemental Analysis of Chert for Understanding Formation Processes Using INAA*.
- Speer, Charles A., Poster Presentation at 82nd Annual Society for American Archaeology Meetings; Vancouver, BC, Canada, March 29-April 2, 2017; Title: *Knapping Precise Porcelain Replicas*.
- Speer, Charles A. and Parish, Ryan M., Symposium, Co-Organizer and Co-Chair at 80th Annual Society for American Archaeology Meetings; San Francisco, California, April 15-19, 2015. Symposium Title: *Case Studies in Chert Sourcing and Identification*.

- Speer, Charles A., Paper Presentation at 80th Annual Society for American Archaeology Meetings; San Francisco, California, April 15-19, 2015; Title: *A Comparison of the Effectiveness of Instrumental Techniques at Differentiating Outcrops of Edwards Plateau Chert at the Hyper-Local Scale.*
- Collins, Michael B. and Speer, Charles A., Paper Presentation at 72nd Annual Plains Anthropological Conference; Fayetteville, Arkansas, October 29 - November 1, 2014; Title: *Specialized Versus Generic Approaches to Chipped Stone Projectile Point Production in the Prehistoric Record of Central Texas, 13,500 to 300 B.P.*
- Speer, Charles A., Paper Presentation at 85th Annual Meeting of the Texas Archaeological Society; San Marcos, Texas, October 24-26, 2014; Title: *Precision Control in Knapping Experiments.*
- Speer, Charles A., Poster Presentation at 79th Annual Society for American Archaeology Meetings; Austin, Texas, April 23-27, 2014; Title: *LA-ICP-MS Sourcing of 33 Clovis Projectile Points from the Gault Site (41BL323), Salado, Texas.*
- Speer, Charles A., Poster Presentation at Paleoamerican Odyssey: A Conference Focused on First Americans Archaeology; Santa Fe, New Mexico, October 17-19, 2013. Title: *Source Determination of Edwards Plateau Chert Using LA-ICP- MS.*
- Speer, Charles A., Paper Presentation at 83rd Annual Meeting of the Texas Archaeological Society; Tyler, Texas, October 25-28, 2012. Title: *Source Determination of 33 Clovis Projectile Points Using Laser Ablation - Inductively Coupled Plasma - Mass Spectrometry (LA-ICP-MS).*
- Parish, Ryan M. and Speer, Charles A., Symposium, Co-Organizer and Co-Chair at 77th Annual Society for American Archaeology Meetings; Memphis, Tennessee, April 18-22, 2012. Symposium Title: *Chert Sourcing: Methods, Techniques, and Applications.*
- Speer, Charles A., Paper Presentation at 77th Annual Society for American Archaeology Meetings; Memphis, Tennessee, April 18-22, 2012. Title: *Investigation of the Edwards Plateau Chert Resources using LA-ICP-MS.*
- Speer, Charles A., Poster Presentation at 76th Annual Society for American Archaeology Meetings; Sacramento, California, March 30 - April 3, 2011. Title: *Using LA-ICP-MS to Characterize Clovis Artifacts at the Gault Site.*
- Speer, Charles A., Poster Presentation at 75th Annual Society for American Archaeology Meetings; St. Louis, Missouri, April 14-18, 2010. Title: *Understanding the Effects of Heat Treating on Edwards Plateau Chert.*

## GRANTS AND SCHOLARSHIPS

- Office for Research Internal Small Grants Program, *Territorial Perspectives through Raw Material Sourcing*, Idaho State University, PI Charles Speer, 2020 - \$4,410
- Senior Research Grant, *Seagull Bay Clovis Site Preservation*, National Science Foundation, PI Charles Speer, 2020 – \$27,000 (in progress, pending Bureau of Reclamation archaeology permit, 5-year paleontology permit already acquired for megafauna)
- United State Geological Survey, *Lost River Fault Study*, 2019 - \$3,404
- Faculty Travel Grant, Idaho State University College of Arts and Letters, 2019 - \$1,500
- *New Meadows Terracon Cell Tower Study*, 2018 - \$1,960
- Idaho Heritage Trust Grant for *Kimberly Mammoth Study*, 2018 - \$3,245
- *New Meadows Cell Tower Survey*, 2017 - \$1,935
- Faculty Travel Grant, Idaho State University College of Arts and Letters, 2017 - \$1,000

- Idaho State University, Office of the Dean College of Arts and Letters Internal Support for LA-ICP-MS Samples, 2016 - \$4,800
- Faculty Travel Grant, Idaho State University College of Arts and Letters, 2016 - \$1,000
- Idaho State University, Office of Research Internal Start-Up Grant 2015-2017- \$26,000
- *Presidential Dissertation Fellowship*, University of Texas at San Antonio, 2012 - \$2,000
- *Doctoral Dissertation Improvement Grant*, National Science Foundation, PI Robert Hard and Co-PI Charles Speer, 2012 to 2013 - \$19,435
- Small Grants for Doctoral Research in Anthropology, University of Texas at San Antonio, 2012 - \$491
- Graduate Thesis Scholarship, University of Texas at San Antonio, 2012 - \$500
- Doctoral Travel Grant, University of Texas at San Antonio, 2012 - \$750
- Small Grants for Doctoral Research in Anthropology, University of Texas at San Antonio, 2011 - \$500
- Doctoral Travel Grant, University of Texas at San Antonio, 2011 - \$750
- Doctoral Travel Grant, University of Texas at San Antonio, 2010 - \$750

## COURSES TAUGHT

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- Anthropology 1100: General Anthropology
- Anthropology 2203: Discover Archaeology\*
- Anthropology 2237: Ancient Egypt\*
- Anthropology 4403: History and Theory of Archaeology
- Anthropology 4410/5510: Cultural Resource Management\*
- Anthropology 4414/5514: Archaeology of Magic and Ritual\*
- Anthropology 4414/5514: Paleoindians\*
- Anthropology 4481/5581: Neanderthals\*
- Anthropology 4414: New World Archaeology
- Anthropology 4495: Colloquium
- Anthropology 4486/5586: Archaeology Field School
- Anthropology 6635: Seminar in Archaeology\*

\*plus online version

## GRADUATE ADVISEES

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- Rebekah Rakowski 2019 – present. *Mapping Ceramics: Petrographic Analysis of Hohokam Ceramics Utilizing ArcGIS*. (in progress), M.A. Thesis, Department of Anthropology, Idaho State University. Thesis committee member.
- Gabrielle Bratt 2018 – present. *Understanding the Cultural Change of Northwest Coast Hunter-Gatherers to Complex Fishing Societies*. (in progress), M.A. Thesis, Department of Anthropology, Idaho State University. Thesis committee chair.
- Daniel Parker 2018. *Analyzing the Strength of Different Mixtures of Prehistoric Pine Pitch Glue*. M.S. Thesis, Department of Anthropology, Idaho State University. Thesis committee chair.
- Buck Benson 2017. *Archaeological Investigation of XPM-0098 and XPM-0104 on the Sapsuk River, Alaska*. M.S. Paper, Department of Anthropology, Idaho State University. Thesis committee member.

- Michelle Carpenter 2017. *An Analysis of the Jamestown Diet*. M.A. Thesis, Department of Anthropology, Idaho State University. Thesis committee chair.
- Kassandra McFarland 2017. *Positively Sexual: An Autoethnographic Account of Sexual Culture and Education in Southeast Idaho*. Thesis committee member.
- Adam Clegg 2016. *Archaeological Analysis of the Sublett Troughs Site, Idaho (10-OA-33)*. M.A. Thesis, Department of Anthropology, Idaho State University. Thesis committee chair.

## GRADUATE FACULTY REPRESENTATIVE

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- Jeffrey Hunter, 2018, Physician's Assistant
- Autumn Martin, 2017, Physician's Assistant
- Theresa Creten, 2017, Physician's Assistant
- Marisha Raish, 2017, Physician's Assistant
- Ryan Howerton, 2016 Department of Geosciences, exam-based defense

## UNIVERSITY AND PROFESSIONAL SERVICE

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- Grant and Panel Reviewer, National Science Foundation, 2018 – present
- Assistant Editor, *Idaho Archaeologist*, Idaho Archaeological Society, 2019 – present
- Faculty Senate, 2018 – present
- Chair, SAA Interest Group – Prehistoric Quarries and Early Mines, 2018 – present
- American Indian Studies Assistant Professor Hiring Committee, 2018
- Zero Robotics Summer Camp Instructor, 2018
- Reviewer for *Journal of Archaeological Science*, 2018 – present
- Reviewer for *Journal of Archaeological Science: Reports*, 2018 – present
- Reviewer for *Quaternary International*, 2017 – present
- Office of Student Affairs - Scholastic Appeals Committee Member, 2017 – present
- Building Safety Coordinator, 2017 – present
- Liberal Arts High, 2017 – present (archaeology and flintknapping presentations to local area high school students)
- Assistant Professor Hiring Committee for Two Positions (forensic anthropology and bioarchaeology), 2017-2018
- Geospatial Coordinating Committee Member, 2017 – present
- Reviewer for *Journal of Texas Archaeology and History*, 2017 – present
- Consultant for Pocatello Police Department, Idaho State Highway Patrol, Federal Bureau of Investigations Pocatello Office Missing Persons Cases, 2016 – present
- Visiting Assistant Professor Hiring Committee, 2016-2017
- Stratasys Object 30 Prime 3D Printing Lab Manager, 2016 – present
- Reviewer for *Quaternary Science Reviews*, 2016 – present
- Reviewer for *Journal of California and Great Basin Anthropology*, 2016 – present
- Majors and Minors Fair Organizer, 2016 – present
- Department Website Management, 2015 – present
- Reviewer for *Geoarchaeology*, 2015 – present
- Reviewer for *PaleoAmerica*, 2015 – present



## INVITED WORKSHOPS

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- Idaho State Historical Society, Herrett Center Museum, College of Southern Idaho, May 2018 – Scheduled to present “*Tracking Mammoths across the Snake River Plain - A Proxy for Following Earliest Peoples in the New World*”. This is part of an Archaeology Month series at the Herrett Center.
- “Our Legacy, Our Future” - A Celebration of Idaho Archaeology and Preservation Month, Pocatello, Idaho, Pocatello. Presented by Historic Preservation Committee, Idaho Museum of Natural History, Idaho State University Department of History, May 20-21, 2016. Presented lecture “*Folsom Stone Tool Technology*”.
- Provost's Academy, University of Texas at San Antonio, Institute of Texan Cultures, San Antonio, Texas, April 2009 to April 2011 - Venue for faculty to encourage cross-disciplinary research and teaching. Presented workshop for three consecutive years on “*Teaching Technology and Millennials*”. This focused on using technology to improve pedagogy.
- Celebrating Authentic Learning, Arctic Lilly Institute on Innovations and Excellence in Teaching, Fairbanks, Alaska, March 2009 - Presented several “*Teaching Technology in the Classroom*” workshops. Learned traditional hunter-gatherer skills from Yu'pik elders following workshops.

## MEDIA

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- Online Facebook Broadcast, Destination Archaeology. May, 2020. *Museum Time Machine*, Pocatello, Idaho. <https://bit.ly/3fPdgnY>
- Magazine article, Mammoth Dig: ISU Digging Kimberly Mammoth. December 5, 2019. *ISU Magazine*, pg 24-26 Pocatello, Idaho. <https://bit.ly/3fOMiN5>
- News article, ISU researchers look for evidence linking Clovis people with Megafauna 13,000 years ago on the Snake River Plain. December 4, 2019. *Idaho State Journal*. Pocatello, Idaho. <https://bit.ly/37jn7yh>
- Radio, ISU Archaeologist Publishes Paper on Clovis Stone Tools from Texas. *KISU FM 91*, November 28, 2018.
- Television, Family finds mammoth bones in yard. June 6, 2018. *KMVT 11*, Twin Falls, Idaho. <https://bit.ly/36jdXCC>
- News article, Tracking Mammoths Across the Snake River Plain. May 22, 2018. *Magic Valley News*. <https://bit.ly/2JtkKk6>
- Television, ISU Students to Participate in Archaeology Field School in Kimberly, Idaho This May. April 10, 2018. *KPVI 6*, Pocatello, Idaho. <https://bit.ly/3qaaMoR>
- Photo Essay, Archaeology and Photography. June 9, 2016. *Terry Ownby*, Boise, Idaho. <https://bit.ly/3ocXxl8>
- News Article, Idaho State University to offer archaeology field school in May. March 15, 2016. *ISU News*. <https://bit.ly/2Vlj0fE>

## PROFESSIONAL EXPERIENCE AND DEVELOPMENT

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- Seminar - Grant and Research Proposal Writing for Archaeologists March 5, 2019
- Seminar - Integrating Drones into Archaeological Fieldwork November 28, 2018
- Seminar - Experimental Archaeology: Context, Design, and Impact November 15, 2018
- Seminar - Is a shared past possible? Reflections on 25 years of research at Çatalhöyük, Turkey, Speaker Ian Hodder, November 1, 2018
- Seminar - Shoshone-Bannock Treaty Right Seminar April 25, 2018 - April 26, 2018
- Workshop - How to Publish with a University Press: Everything You Need to Know from Draft to Contract February 23, 2018
- Seminar - FARO Augmented Reality Seminar February 8, 2018
- Seminar - Geophysical Remote Sensing in Archaeology: An Overview and Practical Guide for Beginners and Intermediate Users, Teachers, and Consumers January 22, 2018
- Workshop - NSF - CAREER Grant - May 22, 2017
- Inter Professional Faculty Development - Content Management System (CMS), t4 Terminal Four April 25, 2017 - April 26, 2017
- SAA Seminar - Addressing Orphaned Collections: A Practical Approach, February 2, 2017
- SAS Workshop - JMP Basics for Professors and Students January 26, 2017
- SAA Workshop - Native American Graves and Repatriation Act: NAGPRA Fundamentals January 25, 2017
- SAS Workshop - Analyzing and Predicting Systems Failures May 6, 2016
- SAS Workshop - Multivariate Analysis March 4, 2016
- SenseFly eBee Drone and UAS Webinar October 20, 2015

## FIELD EXPERIENCE

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- *Kimberly Mammoth Archaeological Field School*. Organizer and Director of field school for 10 undergraduate and 2 graduate students to investigate mammoth skeleton and potential human interaction. Taught students various archaeological fieldwork skills including excavation, survey, and data capture using semi-robotic Trimble S-5 Autolock Total Station. Instructed students in geoarchaeology, ground penetrating radar, and megafauna identification through hands-on activities and workshops. 2018.
- *Ola Archaeological Field School*. Organizer and Director of field school for 8 undergraduate students to investigate Paleoindian occupation of 700 acres private property bordering Boise National Forest. Taught students various archaeological fieldwork skills including excavation, survey, and data capture using semi-robotic Trimble S-5 Autolock Total Station. Instructed students in geoarchaeology and lithic technology through hands-on activities and workshops. 2016-2017.
- *Gault Archaeological Site*, Salado, Texas. Project led by Dr. Michael Collins of Prehistory Research Project. Post-doctoral research associate with duties including ongoing excavation, cataloging, survey, and geoarchaeology of extensive Paleoindian site. 2013-2015.



- *Blue Highways Project*, Shinfa, Ethiopia. Lithic technology consultant on Middle Stone Age sites. Project led by John Kappelman of the University of Texas at Austin. My role included survey, excavation, stone tool analysis, survey and collection of geologic samples for experimental archaeology, and replication of artifacts using traditional flintknapping methods; 2011.
- *Charazani Proyecto Arqueológico*, Cordillera Apolobamba, Bolivia. Lithic technology consultant on Inka Period sites. Ongoing project led by Sonia Alconini of the University of Texas at San Antonio. My role included survey, excavation, and stone tool analysis; 2008.
- *Intensive Pedestrian Survey along the Banks of the San Antonio River: Museum "Urban" Reach Section of the San Antonio River Improvements Project*, Bexar County, Texas 2006.
- Archaeological Testing at 41BP679, Bastrop County, Texas 2006.
- Archeological Survey Report of FM 536 Improvements Project near Floresville, Wilson County, Texas 2006.
- Culebra Creek Survey Project, 2005.
- Archeological Reconnaissance of the Starkey-Saner Mill, 41KR130, Kerr County 2005.
- Pedestrian Survey and National Register of Historic Places Eligibility Testing of Sites within a Proposed Detention Facility in Webb County, Texas 2005.
- Intensive Pedestrian Survey of Three Tracts to be impacted by the Planned Expansion of the San Antonio International Airport, Bexar County, Texas 2005.
- Archaeological Survey of 1604 Expansion for TXDOT in San Antonio, Bexar County Texas 2005.
- Archaeological Survey of the Naegelin Tract (41BX1600) in San Antonio, Bexar County, Texas 2005.
- Archeological Survey of Loop 410 Improvements Project, City of San Antonio, Bexar County, Texas 2005.
- Phase I Archaeological Survey of a 10-acre Habit for Humanity Tract in Laredo Webb County, Texas 2005.
- *Choke Canyon Reservoir Cataloging Project* for Bureau of Reclamation, 2004-2006.
- Archaeological Survey of the Proposed Medina River Park, Bexar County, Texas 2004.
- Archaeological Survey for the Proposed Salado Creek Hike and Bike Trail, City of San Antonio, Bexar County, Texas 2004.
- Archaeological Testing of Sites 41GD113 and 41GD114 in Goliad County, Texas 2004.
- Archaeological Survey of NPS/SAMNHP Property Acquisitions Project 2003.
- Archaeological Survey for NPS Boundary Relocation Project, 2003.
- Preliminary Survey of Evant / Brooks Ranch, Coryell County, Texas 2002. Catalogued/analyzed over 3,500 projectile points ranging from historic to Paleoindian.

## TECHNICAL SKILLS

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- GSSI Utility Scan (800/300) with sub-meter GPS (ground-penetrating radar)
- Stratasys Objet 30 Prime 3D printer.
- Bruker Tracer V Portable XRF Analyzer. Trained at Texas State University, San Marcos, Texas.
- New Wave Research Laser Ablation units UP-213 & UP-266, and Varian (now Agilent/Bruker) quadrupole Inductively Coupled Plasma - Mass Spectrometer (ICP-MS). Trained at the Field Museum of Natural History, Chicago, Illinois.
- Costech Elemental Analyzer, ThermoFinnigan DeltaPlus XP stable isotope ratio mass spectrometer (IRMS), and Clark Vickers Micro-hardness Tester HV-1000. Trained at the University of Texas at San Antonio.
- Applied multivariate quantitative statistics as well as statistical software programs: SPSS, SAS, and PAST.
- Stone tool replication using traditional methods and techniques.

## PROFESSIONAL ORGANIZATIONS

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- Archaeological Institute of America, 2017 – present
- Register of Professional Archaeologists, 2016 – present
- Idaho Archaeological Society, 2015 – present
- Southern Texas Archaeological Association, 2005 – present
- Lambda Alpha - Anthropology Honor Society, 2003 – 2013
- Texas Archaeological Society, 2002 – present
- Society for American Archaeology, 2000 – present

## EXHIBITS DEVELOPMENT

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- Idaho Museum of Natural History, Pocatello, Idaho; “*The Incredible Horse*”, January 2018 – July 2019; Curator and Designer. The central topic of this exhibition was the evolution of the horse in North America. The exhibition described how the horse became the domesticated animal it is today, how it changed Native American lifeways when it was reintroduced into North America after going extinct, and how it continues to affect our lives today. The exhibition emphasized on how Idaho culture has been shaped through the story of the horse through fossils, artifacts, and daily encounters. Image available on request.
- University of Texas at Austin, Austin, Texas Jester Hall; “*First Texans*” June 2010 – December 2012; Designed and produced all materials for permanent exhibit which consisted of replication of 30 projectile points (ranging from Paleoindian to Late Prehistoric periods), an atlatl, a self-bow, a bowstring, a fiber sandal, a fletched cane dart with hafted Folsom projectile point, and a fletched cane arrow with hafted Perdiz projectile point. Images available on request.

## VOLUNTEER WORK

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### ***Museum Volunteer***

*2016-present*

Idaho Museum of Natural History, Pocatello, Idaho State University – Assisted with numerous activities beyond compensated curator position duties including: Developed *Mummy Making Madness museum* experience, *In My Backyard* series, Archaeology Day, public artifact identification, and ancient skills demonstrations (such as flintknapping, friction fire making, atlatl dart throwing, bone- and wood-working with stone tools, etc.).

### ***Ancient Skills Group***

*2008-2013*

Ancient Skills Group, San Antonio, Texas - A group that I formed at the University of Texas at San Antonio that practices various ancient craftsmanship skill sets. These included: flintknapping, traditional pottery making (from clay recovery to firing), fiber arts, bone and wood working with stone tools, fishing technology, and friction fire-making. The group had a membership of 32 students (both graduate and undergraduate).

### ***Volunteer Archaeologist***

*2005-present*

I have volunteered many hours of service for raising public archaeological awareness of the need to protect cultural resources and participated in many investigations and excavations of threatened sites for the Idaho Archaeological Association, the Idaho Museum of Natural History, the Southern Texas Archaeological Association and the Texas Archaeological Society. Presented on stone tools and provided flintknapping demonstrations during archaeology days and fairs for many organizations. These include but are not limited to Idaho Archaeological Association, Herrett Center Museum at College of Southern Idaho, Bureau of Reclamation, Southern Texas Archaeological Association, Texas Archaeology Society, San Antonio Missions National Historic Park, and the Institute of Texan Cultures.