

Charles A. Speer
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EDUCATION

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

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

- Speer, Charles A. 2025, "Simulating Organic Projectile Point Damage on Bison Pelves" *Journal of Experimental Archaeology*, 2025/1. <https://exarc.net/ark:/88735/10787>.
- Speer, Charles A. 2023, "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.
- Speer, Charles A. 2023, "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.
- Speer, Charles A. 2021, "The Kimberly Mammoth: Dating and Excavation", *Idaho Archaeologist*, 44(1):4-15.
- 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. 2019 "A blended model of mobility behavior: Clovis period hunter-gatherers at the Gault Site", *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.

EDITED VOLUMES

- Speer, Charles A. (editor); Ryan Parish (editor), Gustavo Barrientos (editor), 2023 "Sourcing Archaeological Lithic Assemblages: New Perspectives and Integrated Approaches"; edited volume; 243 pages, University of Utah Press, Salt Lake City.

BOOKS

- Speer, Charles A. 2026, "Isotopic Analysis of Archaeological Artifacts" *Cambridge University Press – Elements*, 225 pages, in progress.

INVITED BOOK REVIEWS

- Speer, C. 2023. Understanding Chipped Stone Tools. Brian Hayden. 2022. Eliot Werner Publications, Clinton Corners, New York, ISBN 978-1-7342818-6-6. *American Antiquity*, 88(3), 426-427. doi:10.1017/aaq.2022.114
- Speer, Charles A. 2022 Review of Prehistoric Quarries and Terranes: The Modena and Tempiute Obsidian Sources of the American Great Basin. By Michael J. Shott. *Southwestern Lore*, Summer.

PROFESSIONAL PRESENTATIONS

- Speer, Charles A., Paper Presentation at 90th Annual Society for American Archaeology Meetings; Denver, Colorado, April 23 - April 27, 2025; Title: *Refining Chert Provenance Methods: Evaluating Laser Ablation Spot Size and Reproducibility*.
- Speer, Charles A., Paper Presentation at 89th Annual Society for American Archaeology Meetings; New Orleans, Louisiana, April 17 - April 21, 2024; Title: *Folsom Hunter-Gatherers May Have Ignored Local Raw Material Sources*.
- John Dudgeon, Charles Speer, Beau Craner and Rebecca Hazard at 88th Annual Society for American Archaeology Meetings; Portland, Oregon, March 29 - April 2, 2023; Title: *Thermal Analysis as a Means to Understand Prehistoric Heat Treatment and Performance Differences in Toolstone*.

- Speer, Charles A., Organizer and Speaker at 86th Annual Society for American Archaeology Meetings; San Francisco, California (online), April 15-17, 2021; Title: *Prehistoric Quarries and Mines Interest Group: Student Engagement and Business Meeting*.
- 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 Pelvises*.
- Parish, Ryan M., Speer, Charles A., and Barrientos, Gustavo. Symposium Co-Organizer at 11th 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 11th 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

- Seed Grant Program, Idaho State University Office for Research, *A Portable Laser Ablation Unit for In-field Geochemical Sourcing of Artifacts & Knappable Materials*, Idaho State University, PI Charles Speer, 2025 - \$ 17,575 (submitted)
- Faculty Travel Grant, Idaho State University College of Arts and Letters, 2025 - \$1,500
- *Major Research Instrumentation Program (MRI)*, National Science Foundation, Title: MRI: Track 1 Acquisition of a Variable Pressure Scanning Electron Microscope for Nano and Micro-scale Imaging, Elemental Analysis and Materials Science at Idaho State University; PI John Dudgeon, Co-PIs Kendra Murray, Kirsten Mink, & Samantha Blatt, 2024 - \$ 719,416 (submitted)
- Office for Research Internal Small Grants Program, *Archaeological Testing of Cowboy Rock Shelter*, Idaho State University, PI Charles Speer, Co-PI Kirsten Mink 2024 - \$4,867
- *Archaeology Program Senior Research*, National Science Foundation, Title: Understanding the Role of Economic Competition in the Sociopolitical Frameworks of Past Complex Societies; PI Rachel Horowitz, Senior Personnel Charles A. Speer, 2024 - \$223,636
- *Major Research Instrumentation Program (MRI)*, National Science Foundation, Title: MRI: Acquisition of a Laser Ablation - Inductively Coupled Plasma - Triple Quadrupole - Mass Spectrometer (LA-ICP-QQQ-MS) System for Research and Education; PI Charles A. Speer, Co-PIs John Dudgeon, Kathleen Lohse, & Kurt Sundell, 2023 - \$744,396
- *Undergraduate STEM Research Funds*, Idaho State University, Idaho State Board of Education, PI John Dudgeon, 2023 - \$7,970
- Internal Small Grants Program, Idaho State University Office for Research, *Territorial Perspectives through Raw Material Sourcing*, Idaho State University, PI Charles Speer, 2020 - \$4,410
- 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
- IMNH Contract, *New Meadows Terracon Cell Tower Study*, 2018 - \$1,960
- Idaho Heritage Trust Grant for *Kimberly Mammoth Study*, 2018 - \$3,245
- IMNH Contract, *New Meadows Terracon Cell Tower Survey*, 2017 - \$1,935
- Faculty Travel Grant, Idaho State University College of Arts and Letters, 2017 - \$1,000
- Internal Support for LA-ICP-MS Samples, Idaho State University Office of the Dean College of Arts and Letters, 2016 - \$4,800
- Faculty Travel Grant, Idaho State University College of Arts and Letters, 2016 - \$1,000

- Internal Start-Up Grant, Idaho State University Office of Research, 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

- Anthropology 1100: General Anthropology
- Anthropology 2203: Discover Archaeology*
- Anthropology 2237: Ancient Egypt*
- Anthropology 2237: Ancient Civilizations
- 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

- Nicole Falvey 2025. *"Our Gathering Philosophy is Our Ecological Policy"* – *The Archaeology of Cultural Burns, Biodiversity, and Traditional Ecological Knowledge*, M.A. Thesis, Department of Anthropology, Idaho State University. Thesis advisor.
- Beau Craner 2025. *New Methods Towards Understanding Heat Treatment of Edwards Plateau Chert*, M.A. Thesis, Department of Anthropology, Idaho State University. Thesis advisor.
- Christian Gattung 2024 – present. Title TBD (in progress), M.A. Thesis, Department of Anthropology, Idaho State University. Thesis advisor.
- Jessica Novak 2024 – present. Title TBD (in progress), M.A. Thesis, Department of Anthropology, Idaho State University. Thesis advisor.
- Mary Gervase 2023 – present. Title TBD (in progress), M.A. Thesis, Department of Anthropology, Idaho State University. Thesis advisor.
- Jonathan Mayes 2023 – present. Title TBD (in progress), M.A. Thesis, Department of Anthropology, Idaho State University. Thesis advisor.

- Samantha Wittrock 2023 – present. Title TBD (in progress), M.A. Thesis, Department of Anthropology, Idaho State University. Thesis advisor.
- Bailey Dann 2023. *Growing Our Languages: An Indigenous Language Curriculum Development Guide for Shoshoni Language Teachers and Other Indigenous Language Teachers & Planners*, M.A. Thesis, Department of Anthropology, Idaho State University. Thesis committee member.
- Deny e Matthews 2023. *Higher Educational Leadership: Instructional Design & Technology*, PhD Dissertation, Department of Anthropology, Idaho State University. Dissertation committee member.
- Michael Duffin 2022. *A Matter of Time: An Actualistic Study of the Post-Mortem Interval of Pig Decomposition in Southeastern Idaho*, M.A. Thesis, Department of Anthropology, Idaho State University. Thesis committee member.
- Talissa Cota 2022. *Applied GIS to Model Obsidian Distribution on the Snake River Plain*, M.A. Thesis, Department of Anthropology, Idaho State University. Thesis committee member.
- Bobette Haskett 2022 – present. Title TBD (in progress), M.A. Thesis, Department of Anthropology, Idaho State University. Thesis advisor.
- Rebekah Rakowski 2021. *Mapping Ceramics: Petrographic Analysis of Hohokam Ceramics Utilizing ArcGIS*. M.A. Thesis, Department of Anthropology, Idaho State University. Thesis committee member.
- Gabrielle Bratt 2021. *Understanding the Cultural Change of Northwest Coast Hunter-Gatherers to Complex Fishing Societies*. 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 chair.
- 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 Sublette Troughs Site, Idaho (10-OA-33)*. M.A. Thesis, Department of Anthropology, Idaho State University. Thesis committee chair.

GRADUATE FACULTY REPRESENTATIVE

- Robert Manta, 2024, Department of Geosciences
- 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

UNIVERSITY AND PROFESSIONAL SERVICE

- Reviewer for *Journal of Lithic Studies*, 2023 – present
- Research and Academic Affairs Committee, Archaeological Institute of America, 2022 – present
- Tenure and Review Committee, College of Arts and Letters, 2021 – present
- Department of Anthropology, Graduate Director, 2021 – present
- Reviewer for *American Antiquity*, 2021 – present
- Reviewer for *Archaeometry*, 2021 – present
- Reviewer for *Lithic Technology*, 2021 – present
- Editor, *The Quarry* Newsletter of the Prehistoric Quarries and Early Mines Interest Group, 2021 – present
- Reviewer for *Academia Letters*, 2021 – present
- Hiring Committee for Assistant Professor in Forensic Anthropology, 2020-2021.
- Grant and Panel Reviewer, National Science Foundation, 2018 – present
- Assistant Editor, *Idaho Archaeologist*, Idaho Archaeological Society, 2019 – present
- Faculty Senate, 2018 – 2020
- Chair, SAA Interest Group – Prehistoric Quarries and Early Mines, 2018 – present
- Hiring Committee for Assistant Professor in American Indian Studies, 2018-2019
- 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)
- Hiring Committee for Assistant Professor in 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
- Hiring Committee for Visiting Assistant Professor in Forensic Anthropology, 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 – 2023
- Reviewer for *Geoarchaeology*, 2015 – present
- Reviewer for *PaleoAmerica*, 2015 – present

INVITED WORKSHOPS

- Idaho State Historical Society, Herrett Center Museum, College of Southern Idaho, May 12, 2024, “*Ice Age Giants: Unveiling Ancient Hunting Strategies and Migration Patterns in North America*”. Archaeology Month series at the Herrett Center. Twin Falls, Idaho.
- Hailey Public Library, March 7, 2024, “*Hunter-Gatherers during the Ice Age*”. History Talk Series, Hailey, Idaho.
- Idaho State University, Department of Anthropology, Annual Conference Preparation Series, Every February, 2023–present, “*Presenting Your Research: Professional Posters and Conference Etiquette*.” Hands-on training workshops for undergraduate and graduate students preparing for academic conferences. Pocatello, Idaho.
- Idaho Museum of Natural History, September 15, 2022, “*Tracking Mammoths across the Snake River Plain - A Proxy for Following Earliest Peoples in the New World*”. Behind the Scenes Series, Pocatello, Idaho.
- Hailey Public Library, September 30, 2021, “*Peopling of the New World*”. History Talk Series, Hailey, Idaho.
- Idaho State Historical Society, Herrett Center Museum, College of Southern Idaho, May 22, 2018, “*Tracking Mammoths across the Snake River Plain - A Proxy for Following Earliest Peoples in the New World*”. Archaeology Month series at the Herrett Center. Twin Falls, Idaho.
- Pocatello Historic Preservation Committee, Idaho Museum of Natural History, Idaho State University, May 20, 2016, “*Folsom Stone Tool Technology*”. “Our Legacy, Our Future” - A Celebration of Idaho Archaeology and Preservation, Pocatello, Idaho.
- Provost's Academy, University of Texas at San Antonio, Institute of Texan Cultures, San Antonio, Texas, April 2009 to April 2011 “*Teaching Technology and Millennials*”. Venue for faculty to encourage cross-disciplinary research and teaching, San Antonio, Texas.
- Arctic Lilly Institute on Innovations and Excellence in Teaching, March 2009, “*Teaching Technology in the Classroom*”, a series of 5 workshops. Celebrating Authentic Learning, Fairbanks, Alaska. Note: in exchange for workshops was taught traditional hunter-gatherer skills from Yu'pik elders over several days.

MEDIA

- 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

- Seminar – *Archaeology Education: Creating more Effective Materials and Delivery*, Society for American Archaeology, March 26, 2025
- Seminar – *A Practical Guide for Prioritizing Archaeological Collections*, Society for American Archaeology, February 20, 2025
- Seminar – *Empowering Educators with AI*, Pearson Ed.Tech Symposium, October 9, 2024
- Workshop – *Designing and Analyzing Experiments, Pt. 1: An Introduction*, SAS (JMP), July 3, 2024
- Seminar – *Embracing the Power of Generative AI*, Cengage, October 11, 2023
- Seminar – *The Practice and Ethics of Skeletal Excavation and Conservation*, Society for American Archaeology, September 15, 2023
- Seminar – *Education Deserts: Supporting Rural Regions With Few Colleges*, The Chronicle of Higher Education, May 23, 2023
- Seminar – *Obsidian Hydration Dating*, Society for American Archaeology, April 18, 2023
- Seminar – *Exploring Applications of 3-D Printing in Archaeology Recording*, Society for American Archaeology, October 10, 2022
- Seminar – *The Importance of Mapping Cultural Resources*, National Preservation Institute, March 4, 2022
- Seminar – *Elemental Analysis with LA-ICP-MS in Archaeology*, Society for American Archaeology, February 22, 2022
- Seminar – *An Outline for Teaching Curation in the Classroom and in the Field*, Society for American Archaeology, December 1, 2021
- Seminar – *An Introduction to Archaeological Predictive Modeling*, Society for American Archaeology, November 4, 2021
- Webinar – *Bones: Isotopes in Dating, Diets and Migration Studies*, Beta Analytic and Isobar Science, October 21, 2021
- Webinar – *Improving Research Operations and Output*, The Chronicle of Higher Education, October 7, 2021
- Webinar – *Radiocarbon Basics Part I and II*, Beta Analytic, August 11, 2021
- Seminar – *Section 106: Resource Identification*, National Preservation Institute, May 24, 2021
- Seminar – *Archaeology at a Distance: Engaging Learners in Remote Class*, Society for American Archaeology, February 23, 2021

- Seminar – *Geochemistry and Application of Strontium Isotopes*, Beta Analytic & Isobar Science, February 17, 2021
- Training – *Chasing Zero: How the Agilent 8900 ICP-QQQ Achieves the Lowest Detection Limits in the Ultra-Clean Laboratory*, Agilent Technologies, February 11, 2021
- Seminar – *Grant and Research Proposal Writing for Archaeologists*, Society for American Archaeology, March 5, 2019
- Seminar – *Integrating Drones into Archaeological Fieldwork*, Society for American Archaeology, November 28, 2018
- Seminar – *Experimental Archaeology: Context, Design, and Impact*, Society for American Archaeology, November 15, 2018
- Seminar – *Is a shared past possible? Reflections on 25 years of research at Çatalhöyük, Turkey*, Speaker Ian Hodder, Archaeological Institute of America, November 1, 2018
- Seminar – *Shoshone-Bannock Treaty Rights*, ShoBan Tribes, April 25, 2018 - April 26, 2018
- Workshop – *How to Publish with a University Press: Everything You Need to Know from Draft to Contract*, Society for American Archaeology, February 23, 2018
- Seminar – *FARO Augmented Reality*, FARO Technologies, February 8, 2018
- Seminar – *Geophysical Remote Sensing in Archaeology: An Overview and Practical Guide for Beginners and Intermediate Users, Teachers, and Consumers*, Society for American Archaeology, January 22, 2018
- Workshop – *CAREER Grant*, National Science Foundation, May 22, 2017
- Training – *Inter Professional Faculty Development - Content Management System (CMS), t4 Terminal Four*, Idaho State University, April 25, 2017 - April 26, 2017
- Seminar – *Addressing Orphaned Collections: A Practical Approach*, Society for American Archaeology, February 2, 2017
- Workshop – *JMP Basics for Professors and Students*, SAS, January 26, 2017
- Workshop – *Native American Graves and Repatriation Act: NAGPRA Fundamentals*, Society for American Archaeology, January 25, 2017
- Workshop – *Analyzing and Predicting Systems Failures*, SAS, May 6, 2016
- Workshop – *Multivariate Analysis*, SAS, March 4, 2016
- Webinar – *eBee Drone and UAS*, senseFly Inc., October 20, 2015

FIELD EXPERIENCE

- Idaho State University Field School Site Assessment; *Cowboy Rock Shelter*. Professional investigation of rock shelter deposits in Castle Rocks State Park, Cassia County, Idaho to prepare for future field school site.
- Idaho State University Archaeological Field School; *Discover Flintknapping*. Director of field school for 10 undergraduate, 5 graduate students, and 5 high school Early College Dual Credit students. The field school consisted of four weeks of intensive training in the production of stone tools. Taught all elements of stone tool technology, lithic analysis, chaîne opératoire, and raw material types. All students were able to make expedient flake tools, scrapers, projectile points, and drills. May 31 – June 25, 2021.

- Idaho State University Archaeological Field School; *Investigating the Kimberly Mammoth*. Organizer and Director of field school for 10 undergraduate, 2 graduate students, and 2 high school Early College Dual Credit students 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. May 14 – June 8, 2018.
- Idaho State University Archaeological Field School; *Paleoindian Archaeology in the Sweet Ola Valley*. 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; 2011-2012.
- *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; 2007-2008.
- *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 Archeological 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.
- Archeological Survey of the Proposed Medina River Park, Bexar County, Texas 2004.
- Archeological Survey for the Proposed Salado Creek Hike and Bike Trail, City of San Antonio, Bexar County, Texas 2004.
- Archeological Testing of Sites 41GD113 and 41GD114 in Goliad County, Texas 2004.
- Archeological Survey of NPS/SAMNHP Property Acquisitions Project 2003.
- Archeological 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

- 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

- 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

MUSEUM RELATED ACTIVITIES

- Idaho Museum of Natural History, Pocatello, Idaho; “*Honoring Indigenous Resilience: Commemorating the Frontier Conflict Legacy*,” 2024 – Present; Developer and Organizer. This ten-year annual speaker series was created to explore the conflicts Native Americans faced during Westward Expansion while highlighting their resilience and ongoing contributions to society. Each year’s theme addresses a specific aspect of that legacy—from treaty violations to cultural revival—through invited lectures, film screenings, and public education events. The series aligns with the museum’s mission by amplifying Indigenous voices, educating the public, and fostering partnerships with Native communities. The inaugural year featured my public lecture, “Exploring Shadows of the Past: Connecting the Sand Creek and Bear River (Boa Ogoi) Massacres” (January 25, 2024), and the 2025 program featured Dr. Elizabeth Redd’s keynote, “Many Voices Raised Together: Native Linguistic Diversity, Disruption, and Resilience” (January 22, 2025).
- Idaho Museum of Natural History, Pocatello, Idaho; “*The Incredible Horse*”, January 22, 2018 – July 23, 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 how Idaho culture has been shaped through the story of the horse through fossils, artifacts, and daily encounters. Image available on request.
- Idaho Museum of Natural History, Pocatello, Idaho; *Private Collections Research and Community Outreach*, 2016-present. Serve as a consultant and analyst for private individuals and local museums who bring archaeological and ethnographic collections for evaluation. Conduct non-destructive metrics analysis and geochemical sourcing using techniques such as LA-ICP-MS and portable XRF. Provide cultural and temporal attribution, artifact identification, and detailed written reports for collections including Paleoindian projectile points, obsidian tools, and Mesoamerican greenstone figurines. Projects include the Taylor Collection, Peters Collection, and assessments for the Bingham County Historical Museum and other regional stakeholders. Work supports museum outreach, public education, and artifact stewardship. All services performed pro bono.
- 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

Excavation Director

2024 & 2025

Pocatello, Idaho State University – Conducted an all-day field training session on archaeological excavation techniques for undergraduate and graduate students, using a buried canine as the primary instructional feature. Focused on proper stratigraphic recording, artifact provenience, and ethical considerations in the recovery of faunal remains.

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.