Heather L. Smith to.heather.smith@txstate.edu
Department of Anthropology
Texas State University
San Marcos, TX

Education

Ph.D. Anthropology (2015) Texas A&M University, College Station, Texas
Dissertation: Paleoindian Technology in Beringia—A Technological and Morphological Analysis of the Northern Fluted-Point Complex. (Chair: Ted Goebel)

M.A. Anthropology (2010) Texas A&M University, College Station, Texas
Thesis: A Behavioral Analysis of Clovis Point Morphology Using Geometric Morphometrics. (Chair: Ted Goebel)

Undergraduate coursework in Anthropology (2005-2007) The University of Texas at Austin
(Undergraduate Mentor: Michael Bever)

B.A. Photocommunications (2002) St. Edward's University, Austin, Texas, Magna Cum Laude
(Undergraduate Mentor: Joseph Vitone)

Appointments

2024–Present	**Associate Professor**, Texas State University, Department of Anthropology, San Marcos, TX.
2024–Present	**Associate Editor,** *PaleoAmerica: A journal of early human migration and dispersal*, Taylor & Francis Publishing.
2005–Present	**Associate Editor,** *TexasBeyondHistory.net*, Texas Archaeological Research Laboratory, The University of Texas at Austin.
2020–2024	**Assistant Professor**, Texas State University, Department of Anthropology, San Marcos, TX.
2017–2020	**Assistant Professor**, Eastern New Mexico University, Department of Anthropology and Applied Archaeology, Portales, NM.
2016–2017	**Visiting Assistant Professor**, Eastern New Mexico University, Department of Anthropology and Applied Archaeology, Portales, NM.
2016 (Summer)	**Archaeological Technician**, Prewitt and Associates, Inc., Austin, TX
2016 (Spring)	**Instructor**, Department of Anthropology, Texas A&M University, College Station.
2015 (Summer)	**Archaeological Technician**, The Center for Environmental Management of Military Lands, Colorado State University, Fort Wainwright, Alaska
2014 (Summer)	**Instructor**, Department of Anthropology, Texas A&M University, College Station.
2011–2014	**Research Assistant**, Center for the Study of the First Americans, Texas A&M University, College Station.
2008–2014	**Website-Developer, Graphic Designer,** Center for the Study of the First Americans, Texas A&M University, College Station.
2007–2011	**Student Research Technician**, Center for the Study of the First Americans, Texas A&M University, College Station.
2010–2011	**Assistant Editor**, *Current Research in the Pleistocene*, Center for the Study of the First Americans, Texas A&M University, College Station.

2008-2010 (Spring)	**Instructor**, Department of Anthropology, Texas A&M University, College Station.
2007-2010 (Fall)	**Teaching Assistant**, Department of Anthropology, Texas A&M University, College Station.

Refereed Publications

Kilby, D., J. Lohse, **H. Smith,** and K. Rademaker (2025) The Earliest Lithic Traditions of the Pacific Coast of the Americas. *Proceedings of the 8th Pacific Archaeology: Problems of Theory and Practice Annual Conference, Vladivostok, Russia*.

Smith, H. , Jennings, T., and Smallwood, A. (2024) The third dimension of stone points: 2D vs. 3D geometric morphometric shape analysis. *Archaeological and Anthropological Sciences* 16(10):1-20. DOI: 10.1007/s12520-024-02069-3.

Smith, H. (2023) Clovis Lifeways Set in Stone: The Contribution of Fluted-Point Morphological Variation. *PaleoAmerica* 9(4):269-288. DOI: 10.1080/20555563.2023.2268999.

Smith, H., and A. Smallwood (2023) Current Research from Center for the Study of the First Americans Scholars. *PaleoAmerica* 9(4):243-245. DOI: 10.1080/20555563.2023.2291601.

Buchanan, B., M. Hamilton, N. Gala, **H. Smith**, M. Wilson, M. Eren, and R. Walker (2023) Comparing Clovis and Folsom fluting via scaling analysis. *Archaeometry*. DOI: 10.1111/arcm.12921.

M. Eren, F. Diez-Martin, A. Tarriño, **H. Smith**, B. Buchanan, G. L. Miller, M. Boulanger, S. Slobodin (2023) Toolstone Characterization, Description, Morphometrics, and Microwear of a Lithic Sample from Uptar, Magadan Oblast, Northeastern Siberia, Russia. *Archaeological Research in Asia.* DOI: 10.1016/j.ara.2023.100465.

Jennings, T., A. Smallwood, J. Ray, V. Hanvey, S. Scott, **H. Smith**, D. Miller, and D. Stephens (2023) Early Archaic landscape use, cultural transmission, and aggregation in the lower Ohio River valley. *Southeastern Archaeology.* DOI: 10.1080/0734578X.2022.2163121.

Smith, H., and A. Reid (2022) Evaluating the Fluted Points from Spring Lake, Texas: A Geometric Morphometric Shape Analysis of Clovis Affinity. *PaleoAmerica* 8(4): 340-351. DOI: 10.1080/20555563.2022.2090728.

Smallwood, A., T. Jennings, **H. Smith**, C. Pevny, M. Waters, T. Loebel, J. Lambert, J. Ray, and D. Stephens (2022) Using 3D Models to Understand the Changing Role of Fluting in Paleoindian Point Technology from Clovis to Dalton. *American Antiquity* 1-23. DOI:10.1017/aaq.2022.19.

Smith, H., T. Jennings, and A. Smallwood (2021) Do Early Paleoindian Point Blades Carry Culturally Significant Shape Information? Modules versus Complete Points using Geometric Morphometrics. *Journal of Archaeological Science: Reports* 40(B). DOI: 10.1016/j.jasrep.2021.103245.

Smith, H., and T. Goebel (2020) Происхождение и Распространение Традиции Желобчатых Наконечников на Территории Канадского Свободного ото Льда Коридора и Восточной

Берингии (Russian translation: The Origins and Spread of Fluted-point Technology in the Canadian 'Ice-free Corridor' and Eastern Beringia). *Археология Арктики* 7:115-146.

Smith, H., S. Kuzminsky, and A. Linderholm (2020) Discerning Dispersals along the Pacific and Interior Corridors: Contributions of Geometric Morphometrics to the Peopling of the Americas. *PaleoAmerica* 6(1):109–130. DOI: 10.1080/20555563.2019.1696149.

Smith, G.M., D. Duke, D. Jenkins, T. Goebel, L. Davis, P. O'Grady, D. Stueber, J. Pratt and **H. Smith** (2020) The Western Stemmed Tradition: Problems and Prospects in Paleoindian Archaeology in the Intermountain West. *PaleoAmerica* 6(1):23–42. DOI: 10.1080/20555563.2019.1653153 .

Smith, H. (2019) The Manufacture of Northern Fluted Points: A Production Sequence Hypothesis. *PaleoAmerica* 5(2):169–180. DOI: /10.1080/20555563.2019.1600183.

Smith, H., and J. Tune (2019) Variation in Fluted-point Technology: Investigations across Space and Time. *PaleoAmerica* 5(2):105–108. DOI: 10.1080/20555563.2019.1618176.

Smith, H., and T. Goebel (2018) The Origins and Spread of Fluted-point Technology in the Canadian 'Ice-free Corridor' and Eastern Beringia. *Proceedings of the National Academy of Sciences*. DOI 10.1073/pnas.1800312115.

Smallwood, A., **H. Smith**, C. Pevny, and T. Jennings (2018) The Convergent Evolution of Serrated Points in the Southern Plains-Woodland Border in Central North America. In *Convergent Evolution and Stone Tool Technology*, edited by Michael J. O'Brien, Briggs Buchanan, and Metin I. Eren. The MIT Press, Cambridge.

Graf, K. L. DiPietro, K. Krasinski, B. Culleton, D. Kennet, A. Gore, and **H. Smith** (2017) New Geoarchaeology and Geochronology at Dry Creek. In *Dry Creek: Archaeology and Paleoecology of a Late Pleistocene Alaskan Hunting Camp,* edited by W.R. Powers, R.D. Guthrie, J.F. Hoffecker, and T. Goebel. Texas A&M University Press, College Station.

Graf, K., K. Krasinski, L. DiPietro, A. Gore, **H. Smith**, D. Rhode, S. Driese, and N. Bigelow (2017) Dry Creek Revisited: New Excavations, Radiocarbon Dates, and Site Formation Inform on the Peopling of Eastern Beringia. *American Antiquity* 80(4):671-694. DOI: 10.7183/0002-7316.80.4.671.

Smith, H. and T. J. DeWitt (2017) The Northern Fluted Point Complex: Technological and Morphological Evidence of Adaptation and Risk in the Late Pleistocene Arctic. *Archaeological and Anthropological Sciences,* DOI 10.1007/s12520-016-0335-y.

Teten'kin, A., **Smith, H.**, and A. Henry (2016) Archaeological Evidence for Construction Activities at the Kovrizhka Site, Siberia, during the Pleistocene -Holocene Transition: Structures, Lithics, and Charcoal Analyses. *PaleoAmerica* 2(4):343–361. DOI: 10.1080/20555563.2016.1204842.

Smith, H., A. M. Smallwood, and T. J. DeWitt (2015) A Geometric Morphometric Exploration of Clovis Fluted-Point Shape Variability. In *Clovis: On the Edge of a New Understanding*, edited by Ashley M. Smallwood and Thomas Jennings, pp.161-180. Texas A&M University Press, College Station.

Smith, H., J. Rasic, and T. Goebel (2013) Biface Traditions of Northern Alaska and Their Role in the Peopling of the Americas. In *Paleoamerican Odyssey*, edited by Kelly E. Graf, Caroline V. Ketron, and Michael R. Waters, pp.105-123. Texas A&M University Press, College Station.

Goebel, T., **H. Smith**, L. DiPietro, M. Waters, B. Hockett, K. Graf, R. Gal, S. Slobodin, R. Speakman, S. Driese, and D. Rhode (2013) Serpentine Hot Springs, Alaska: Results of Excavations and Implications for the Age and Significance of Northern Fluted Points. *Journal of Archaeological Science* 40:4222-4233. DOI: 10.1016/j.jas.2013.05.027.

Smith, H. (2012) Geometric Morphometrics and the Effects of Raw Material Quality on Clovis Point Shape. *Current Research in the Pleistocene* 28:83-85.

Technical Reports

Smith, H. (2021) Cultural Resource Survey of Areas Associated with Hot Spring Geothermal Features in Taos, New Mexico. Report Submitted to the New Mexico Bureau of Land Management, Taos Field Office.

Smith, H. (2021) Cultural Resource Survey of Areas Associated with a Hot Spring Geothermal Feature in Socorro County, New Mexico. Report Submitted to the New Mexico Bureau of Land Management, Socorro Field Office.

Goebel, T., and **H. Smith (**2011) Report of 2010 Archaeological Field Research at BEN-192, the Fluted-Point Locality near Serpentine Hot Springs, Bering Land Bridge National Preserve, Alaska. Report Submitted to the National Park Service, Alaska Region. Anchorage.

Smith, H. (in preparation) Report of 2017-2021 Survey and Mapping of San Ysidro Rockshelter. Report in preparation for submission to the New Mexico Bureau of Land Management, Albuquerque Field Office.

Book Reviews

Smith, H. 2021. Review of The Influence of Lithic Raw Material Selection on Regional Morphological Variability of Clovis Fluted Points, by Alan M. Slade. *American Antiquity* DOI: https://doi.org/10.1017/aaq.2021.85.

Refereed Manuscripts in Preparation

Smith, H. Presenting the Lithic Assemblage from Serpentine Hot Springs, Alaska: Early Technological Organization at an Arctic Fluted-Point Site. Paper in preparation for submission to *Arctic*.

Smith, H., L. DePietro, and T. Goebel. A Spatial Analysis of the Fluted-point assemblage from Serpentine Hot Springs, Alaska. Paper in preparation for submission to *Geoarchaeology*.

Jennings, T., A. Smallwood, and **H. Smith**. Investigating the Morphological Variation of Endthinning Scars on Paleoindian Bifacial Projectile Point Morphologies Using Geometric Morphometrics. Paper in preparation for submission to *PLOS ONE*.

H. Smith, and S. Krause. Results of Geoarchaeological Coring Investigations at a Multicomponent Archaeological Site in Central Texas: The Stratigraphy at Spring Lake I. Paper in preparation for submission to *Geoarchaeology*.

Grants and Scholarships Awarded

2025 Research Enhancement Program, Texas State University, $12,000

2025 Krause, K., B. Radoman-Shaw, **H. Smith,** S. Wernette, and J. Kilby. EMBRACE-EAR-Growth: From Places to Peoples: A survey of geological materials and human-environment interaction on the Edwards Plateau that prioritizes student learning. Proposal submitted to the *National Science Foundation*, $400,000.

2020 Research Enhancement Program, Texas State University, $8,000

2020 BLM-New Mexico, San Ysidro Rockshelter and Artifact Preservation, Protection and Study, $37,503

2018 Eastern New Mexico University Faculty Research and Institutional Development Grant to conduct Survey of Hot-spring Geothermal Features Project, $4,992

2018 Eastern New Mexico University Equipment Renewal and Replacement Grant to purchase 3D printer, $6,885

2017 BLM-New Mexico, San Ysidro Rockshelter and Artifact Preservation, Protection and Study, $29,820

2017 Eastern New Mexico University Equipment Renewal and Replacement Grant to purchase 3D scanner, $5,934

2014 Texas A&M University Dissertation Fellowship, $20,265

2012 National Science Foundation Doctoral Dissertation Improvement Grant, $19,644

2015 Texas A&M Department of Anthropology Travel Grant to attend the 80th Annual Meeting of the Society for American Archaeology, San Francisco, California, $700

2014 Texas A&M Department of Anthropology Travel Grant to attend the 42nd Annual Meeting of the Alaskan Anthropological Association, Anchorage, Alaska, $845

2014 Texas A&M University Liberal Arts Department Professional Development Fund Award to attend the Transmitting Science Geometric Morphometrics Workshop in Barcelona, Spain, $2,602

2014 Texas A&M Department of Anthropology Travel Grant to attend the 41st Annual Meeting of the Alaskan Anthropological Association, Fairbanks, Alaska, $1,000

2013 Texas A&M University Liberal Arts Department Professional Development Fund, $160

2013 Texas A&M Department of Anthropology Student Academic Scholarship, Texas A&M University, $1,000

2013 Center for the Study of the First Americans Student Academic Scholarship, Texas A&M University, $1,000

2013 Texas A&M Department of Anthropology Research Grant to conduct Lithic Analysis at the Canadian Museum of Civilization, Gatineau, Quebec, $500

2013 Texas A&M Department of Anthropology Travel Grant to attend the 40th Annual Meeting of the Alaskan Anthropological Association, Anchorage, Alaska, $200

2012 Texas A&M University Liberal Arts Department Professional Development Fund Award to participate in the Kovrizhka Archaeological program at Mamakan, East Siberia, Irkutsk State University, Irkutsk, Russia, $3,224

2012 Department of Anthropology Travel Grant to attend Annual Meeting of the Society for American Archaeology, Memphis, Tennessee, $200

2011 Roy J. Shlemon Student Field Geoarchaeology Fund Award, $5,000

2011 Center for the Study of the First Americans Student Academic Scholarship, Texas A&M University, $1,000

2011 Texas A&M Department of Anthropology Travel Grant to attend Annual Meeting of the Society for American Archaeology, Sacramento, California, $350

2010 Texas A&M Department of Anthropology Travel Grant to attend Annual Meeting of the Society for American Archaeology, St. Louis, Missouri, $350

2009 Texas A&M Department of Anthropology Travel Grant to attend Annual Meeting of the Society for American Archaeology, Atlanta, Georgia, $500

2007 Texas A&M University Regent's Graduate Fellowship, $6,000

Grants and Scholarships Submitted and In Review

2025 Krause, S. Wernette, K., B. Radoman-Shaw, Yanan Li, **H. Smith,** and D. Kilby. A survey of geological materials on the Edwards Plateau that prioritizes research enhancement and student learning aligned with DoD initiatives. Proposal submitted to the *DoD: Research and Education Program for Historically Black Colleges and Universities and Minority-Serving Institutions (HBCU/MI)*, $886,725. Not funded.

2022 **H. Smith.** Generating a Digital Artifact Collection in 3D from the Blackwater Draw Locality 1 Clovis Site, New Mexico Proposal submitted to the National Endowment for the Humanities, $6,000. Not funded.

2019 Smallwood, A., T. Jennings, and **H. Smith**. Investigating Dalton Origins and Cultural Connections at the End of the Ice Age in the Eastern Woodlands of North America. Proposal submitted to the *National Science Foundation*, $253,610. Invitation to revise and resubmit.

University Teaching (Instructor of Record)

Texas State University, Department of Anthropology, San Marcos, TX
ANTH 7301E: Hunter-Gatherer Archaeology
ANTH 5313: Graduate Seminar in Archaeology
ANTH 5347/3347: North American Archaeology
ANTH 5318/3318: Ancient Cultures of the Texas Crossroads (Texas Archaeology)
ANTH 5308/3308: CRM Archaeology
ANTH 4360: Field School in Archaeology
ANTH 4339: Archaeological Field Methods

ANTH 3361: Archaeological Theory

Eastern New Mexico University, Department of Anthropology and Applied Archaeology, Portales, NM
ANTH 245: Introduction to Archaeology
ANTH 245L: Archaeology Laboratory Methods
ANTH 503: Geographic Information Systems (GIS)
ANTH 410: Introduction to Geographic Information Systems (GIS)
ANTH 520/320: Lithic Artifact Analysis
ANTH 550/495: Fundamentals of Archaeological Theory
ANTH 513/413: Hunter-Gatherer Archaeology
ANTH 519: Graphics for Research
ANTH 482/482L: Field School in Archaeology
ANTH 587: Principles of Geoarchaeology
ANTH 365: Archaeology of North America
ANTH 340: Native Cultures of North America
ANTH 506: Applied Data Analysis (Quantitative Techniques for Anthropology)

Texas A&M University, Department of Anthropology, College Station, TX
ANTH 447: Lithic Artifact Analysis
ANTH 202: Introduction to Archaeology
ANTH 330: Archaeological Field School
ANTH 205: Peoples and Cultures of the World

Students Supervised

2025–present	**Erin Mathison, Texas State University (Ph.D. committee chair)**
2025–present	**Jordan Ritter, Texas State University (M.A. committee chair)**
2024–present	**Chesney Kuper, Texas State University (M.A. committee chair)**
2023–present	**Ashley Medlin, Texas State University (Ph.D. committee chair)**
2023–present	**Spencer Gage, Texas State University (M.A. committee chair)**
2022–present	**Trey Lasater, Texas State University (M.A. committee chair)**
2023–present	Gwen Olivier, Texas State University (Ph.D. committee member)
2022–present	Antonio Beardall, Texas State University (Ph.D. committee member)
2021–present	Hilda Torres, Texas State University (Ph.D. committee member)
2021–present	Jesse Brown, Texas State University (M.A. committee member)
2021–present	Autumn McGaha, Texas State University (M.A. committee member)
2023–2025	**Erin Mathison, Texas State University (M.A. committee chair)**
2023–2025	Rich McAuliffe, Texas State University (M.A. committee member)
2023–2024	Cameron Hugh, Texas State University (M.A. committee member)
2021–2024	**Elliott Jones, Texas State University (M.A. committee chair)**
2021–2023	**Sabrina Boyd, Texas State University (M.A. committee chair)**

2017–2020	**Joseph McConnell, Eastern New Mexico University (M.A. committee chair)**
2017–2020	**Michael Jeu, Eastern New Mexico University (M.A. committee chair)**
2017–2019	**Coyle Singletary, Eastern New Mexico University (M.A. committee chair)**
2016–2019	**Nathan Shelley, Eastern New Mexico University (M.A. committee chair)**
2016–2020	Tawnya Waggle, Eastern New Mexico University (M.A. committee member)
2016–2019	Donald Purdon, Eastern New Mexico University (M.A. committee member)
2016–2019	Christine Gilbertson, Eastern New Mexico University (M.A. committee member)
2016–2018	Jasmine Kidwell, Eastern New Mexico University (M.A. committee member)
2016–2018	Michael Merritt, Eastern New Mexico University (M.A. committee member)

2016–2018	Paul Spence, Eastern New Mexico University (M.A. committee member)
2016–2017	Patricia Byers, Eastern New Mexico University (M.A. committee member)
2016–2017	Lisa Sparks, Eastern New Mexico University (M.A. committee member)
2016–2017	Leon Natker, Eastern New Mexico University (M.A. committee member)

Professional Service and Outreach

- Associate Editor, *PaleoAmerica* Journal, December 2024 – Present.
- Member, General Education Curriculum Committee, Texas State University, September 2024 – Present.
- Member, Anthropology Department Curriculum Committee, Texas State University, August 2022 – Present.
- Member, Graduate Student Professional and Social Development Committee, Department
- of Anthropology, Texas State University, January 2022 – Present.
- Co-Organizer, Anthropology Undergraduate Research Conference, Department of Anthropology, Texas State University, February 2021 – May 2025.
- Member, Presidential Upper-Level Scholarship committee, Department of Anthropology, Texas State University, March 2022 – May 2022.
- Department of Anthropology Library Liaison, Texas State University, Department of Anthropology, Texas State University, August 2021 – August 2022.
- Organizer, Department of Anthropology Faculty Brownbag Lecture Series, Texas State University, Department of Anthropology, Texas State University, February 1, 2021 – August 2022.
- Department Chair, Department of Anthropology and Applied Archaeology, Eastern New Mexico University, 2019-2020.
- Graduate Coordinator, Department of Anthropology and Applied Archaeology, Eastern New Mexico University, 2018-2020.
- ENMU College of Liberal Arts and Sciences Student Recruitment and Retention Committee member.
- Faculty co-sponsor of the ENMU Student Anthropology Club.
- Co-Organizer Annual Atlatl Competition, Blackwater Draw Locality 1 Site and Curation facility and Eastern New Mexico University, Department of Anthropology and Applied Archaeology.
- Co-Organized "Flintknapping Demonstration with Eugene Gryba" at the 76th Conference of the Plains Anthropological Society, San Antonio, TX.
- Co-Organized Symposium: *Papers on Environmental Archaeology*, Annual Meeting of the Alaska Anthropological Association, 2015.
- Co-Organized Workshop: *Flintknapping*, Annual Meeting of the Alaska Anthropological Association, 2015.
- Student Mentor: CSFA Mentor in GIS modeling, 2015.
- Co-Organized Flintknapping workshop, Texas A&M University: "Gig-em Week", undergraduate orientation, 2015.
- Co-Organized, Texas A&M University, Department of Anthropology, "Open House", 2014.
- Undergraduate Mentor: CSFA Mentor in field methods, Archaeological Field School in the Nenana River valley, Alaska, Department of Anthropology, Texas A&M University, 2012.
- Co-Chair of the Texas A&M University, Anthropology Department's Women's Week Committee, 2009-2010.

Invited Lectures

Smith, H. (2023) The Multicomponent Site at Spring Lake, San Marcos, Texas. Paper presented as part of the Special Lecture Series of the River Valley Chapter of the Arkansas Archaeological Society and the Arkansas Tech University Department of Behavioral Sciences, Russellville, Arkansas.

Smith, H., and A. Reid (2023) The Multicomponent Site at Spring Lake, San Marcos, Texas. Paper presented as part of the Quarterly Meeting of the Southern Texas Archaeological Association, San Marcos, Texas.

Smith, H. (2022) The Third Dimension of Stone Points: 2D vs. 3D Geometric Morphometric Shape Analysis. Paper presented as part of the Texas State University Anthropology Brown Bag Lecture Series, San Marcos, Texas.

Smith, H. (2021) Do Early Paleoindian Point Blades Carry Culturally Significant Shape Information? Paper presented as part of the Texas State University Anthropology Brown Bag Lecture Series, San Marcos, Texas.

Smith, H (2019) Paleo Points Prove South to North Migration: The Transmission of Stone Projectile-point Technology Across a Continent. Paper presented as part of the Southwest Seminar Series, Santa Fe, New Mexico.

Smith, H (2019) The Late Pleistocene Transmission of Stone Projectile-point Technology Across a Continent: A proxy for human dispersals in the Americas. Paper presented as part of the Eastern New Mexico University Faculty Lectureship Series, Portales, New Mexico.

Smith, H. (2018) Considering Clovis origins: An assessment of the Ice-free Corridor and the spread of Paleoindian technology. Paper presented as part of the 1st Wilson Workshop Series: The Stemmed Point Tradition of Western North America, Center for the Study of the First Americans–in partnership with the Hakai Institute and University of Victoria, Victoria, British Columbia.

Smith, H. (2018) Southwest Fluted Points and the Peopling of the Americas. Paper presented as part of the Four Corners Lecture Series. San Juan Basin Archaeological Society, Durango, Colorado.

Smith, H., J. Rasic, and T. Goebel (2013) Biface Traditions of Northern Alaska and Their Role in the Peopling of the Americas. Paper presented at the Paleoamerican Odyssey Conference, Santa Fe, New Mexico.

Conference Papers and Posters Presented

Kilby, D., J. Lohse, **H. Smith,** and K. Rademaker (2025) The Earliest Lithic Traditions of the Pacific Coast of the Americas. Paper presented at the 8th Pacific Archaeology: Problems of Theory and Practice Annual Conference, Vladivostok, Russia.

Smith, H., E. Mathison, and S. Krause (2025) Searching for the Late Pleistocene: Geoarchaeological Analyses of Sediment Cores from Spring Lake, San Marcos, Texas. Paper presented at the 90th Society for American Archaeology Annual Meeting, Denver, Colorado.

A. Medlin, E. Mathison, and **H. Smith** (2025) Synthesizing Fifty Years of Data: A Spatial

Analysis of Investigations at the Spring Lake Site, San Marcos, Texas. Poster presented at the 90th Society for American Archaeology Annual Meeting, Denver, Colorado.

Smith, H., A. Younie, E. Chu, E. Combs, K. Graf, and T. Goebel (2025) Examining Variation in Chindadn Point Shape Using Elliptical Fourier Analysis. Paper presented at the Annual Meeting of the Alaskan Anthropological Association, Anchorage, AK.

Smith, H., S. Krause, A. Reid, S. Boyd, T. Lasater, A. Reinhardt, and A. Medlin (2024) New Research at a Multicomponent Archaeological Site at Spring Lake, San Marcos, Texas. Poster presented at the 89th Society for American Archaeology Annual Meeting, New Orleans, Louisiana.

Reinhardt, A., T. Lasater, and **H. Smith** (2024) Remote Sensing Survey at Spring Lake, San Marcos, TX. Paper presented at the 89th Society for American Archaeology Annual Meeting, New Orleans, Louisiana.

H. Smith, and A. Reid (2023) The Fluted Points from Spring Lake, A Multi-Component Site in San Marcos: Testing Shape Affinity with Diagnostic Clovis Points. Paper presented at the Annual Meeting of the Texas Archaeological Society, San Marcos, Texas.

Smith, H. (2023) Paleoindian Lifeways Set in Stone: Studying Variation in Fluted-Point Assemblages. Paper presented at the 88th Society for American Archaeology Annual Meeting, Portland, Oregon.

Smith, H. (2023) Paleoindian Lifeways Set in Stone: Studying Variation in Fluted-Point Assemblages. Paper presented at the 88th Society for American Archaeology Annual Meeting, Portland, Oregon.

Smith, H., T. Jennings, and A. Smallwood (2022) The Third Dimension of Stone Points: 2D vs. 3D Geometric Morphometric Shape Analysis. Paper presented at the 78th Annual Meeting of the Southeastern Archaeology Conference, Little Rock, Arkansas.

Smith, H., and K. Graf (2022) Colonizing Siberia and Beringia: Uncharted Territory for Humans Dispersing into the Far North. Paper presented at the 87th Society for American Archaeology Annual Meeting, Chicago, Illinois.

Jennings, T., A. Smallwood., **H. Smith**, J. Ray, and D Stephens (2021) Using 3D and 2D Geometric Morphometrics to Analyze Beveling on Bifacial Stone Points. Paper presented at the 38th Kentucky Heritage Council Archaeology Conference, Online.

Smith, H., and B. Asher (2019) Variability in Clovis Biface Morphology from the Type-site, Blackwater Draw Locality 1. Paper presented at the 84th Society for American Archaeology Annual Meeting, Albuquerque, New Mexico.

Asher, B., and **H. Smith** (2019) The Benefits and Challenges of Active Excavations as Tools for Interpretation and Public Outreach: Examples from Blackwater Draw Locality 1. Paper presented at the 84th Society for American Archaeology Annual Meeting, Albuquerque, New Mexico.

Jeu, M., and **H. Smith** (2019) A Spatial Analysis of a Knapper's Replication of Debitage Debris from Hunter-Gatherer Camp and Hunting Sites. Poster presented at the 84th Society for American Archaeology Annual Meeting, Albuquerque, New Mexico.

Smith, H., and T. Goebel (2019) The Fluted-Point Site at Serpentine Hot Springs. Paper presented at the 46th Alaska Anthropological Association Annual Meeting, Nome, Alaska.

Goebel, T., and **H. Smith** (2019) Context and Chronology of Two Early Sites on the Seward Peninsula: Serpentine Hot Springs and Trail Creek Caves. Paper presented at the 46th Alaska Anthropological Association Annual Meeting, Nome, Alaska.

Smith, H., and B. Asher (2018) Diminutive Projectile Points from Blackwater Draw Locality No. 1, Roosevelt County, New Mexico. Poster presented at the 76th Conference of the Plains Anthropological Society, San Antonio, TX.

Asher, B., and **H. Smith** (2018) Clovis Biface Variability at Blackwater Draw Locality 1: A Geometric Morphometric Analysis. Paper presented at the 76th Conference of the Plains Anthropological Society, San Antonio, TX.

Smith, H. (2018) The Manufacture of Northern Fluted Points: A Production Sequence Hypothesis. Paper presented at the 83rd Society for American Archaeology Annual Meeting, Washington D.C.

Domeischel, J., J. Tune, C. Gilbertson , and **H. Smith** (2018) UAV-Based Mapping and Public Outreach at Blackwater Draw. Poster presented at the 83rd Society for American Archaeology Annual Meeting, Washington D.C.

Smith, H. (2017) Human dispersals to the North American Arctic: Variation in late Pleistocene toolstone procurement strategies and lithic technological organization at two ends of the Ice-free Corridor. Paper presented at the 11th International Symposium on Knappable Materials, Buenos Aires, Argentina.

Smith, H. (2017) Fluted-Point Technology and the Nature of Its Transmission in the Western Canadian Ice-Free Corridor. Paper presented at the 82nd Society for American Archaeology Annual Meeting, Vancouver, British Columbia, Canada.

Tune, J., **H. Smith**, and S. Yerka (2017) Younger Dryas Fluted Technologies: A Comparison of Folsom, Cumberland, and Barnes Technologies. Paper presented at the 82nd Society for American Archaeology Annual Meeting, Vancouver, British Columbia, Canada.

Smallwood, A., **H. Smith**, C. Pevny, and T. Jennings (2016) Convergent evolution of serrated point blades in Eastern Woodlands, North America. Paper presented at the 33rd Altenberg Workshop in Theoretical Biology at the Klosterneuburg Institute, Vienna, Austria.

Smith, H. (2016) The Transmission of Fluted-point Technology in the Ice-free Corridor: A Morphological Investigation of Variability in the Region using Geometric Morphometrics. Paper presented at the 49th Canadian Archaeological Association Annual Meeting, Whitehorse, Yukon.

Smith, H. (2015) The Late Pleistocene Transmission of Fluted-Point Technology Across a Continent: A Morphological Investigation. Paper presented at the 80th Society for American Archaeology Annual Meeting, San Francisco, California.

Smith, H. (2015) The Northward Transmission of a Late Pleistocene Technology: Geographical Variation in Fluted Point Morphology. Paper presented at the 42th Alaska Anthropological Association Annual Meeting, Anchorage, Alaska.

Smith, H. (2014) An Investigation of the Origin of Alaskan Fluted Points and the Role of Fluted

Point Technology in the Early Settlement of Beringia and the Americas. Paper presented at the 79th Society for American Archaeology Annual Meeting, Austin, Texas.

Smith, H. (2014) The Use of Fluting Technology and Technological Risk in Younger Dryas Beringia. Paper presented at the 41th Alaska Anthropological Association Annual Meeting, Fairbanks, Alaska.

Smith, H. (2013) The Utility of Geometric Morphometric Analysis to Understanding Fluted-Point Variability. Paper presented at the 40th Alaska Anthropological Association Annual Meeting, Anchorage, Alaska.

Smith, H. (2012) Preliminary Analysis of Fluted-Point Technology at Serpentine Hot Springs, Alaska. Poster presented at the 77th Society for American Archaeology Annual Meeting, Memphis, Tennessee.

Smith, H., and T. Goebel (2012) Serpentine Fluted-Point Update: Report on the 2011 Excavations at BEN-192, Seward Peninsula, Alaska. Paper presented at the 39th Alaska Anthropological Association Annual Meeting, Seattle, Washington.

Smith, H., and A. Smallwood (2011) Variability in Clovis Point Shape in North America Using Geometric Morphometrics. Paper presented at the 76th Society for American Archaeology Annual Meeting, Sacramento, California.

Younie, A., **H. Smith**, T. Goebel, M. Waters, and K. Graf (2011) The fluted-point locality near Serpentine Hot Springs, Alaska: archaeological investigations during the 2010 field season. Poster presented at the 76th Annual Meeting of the Society for American Archaeology, Sacramento, California.

Smith, H., and T. Goebel (2011) The Fluted Point Assemblage from Serpentine Hot Springs. Paper presented at the 38th Alaska Anthropological Association Annual Meeting, Fairbanks, Alaska.

Smith, H., T. Goebel, and A. Younie (2010) Update of Recent Excavations at the Serpentine Hot Springs Site, BER-192, Bering Land Bridge National Park, Alaska Paper presented at the 18th Arctic Conference at Bryn-Mawr University, Philadelphia, Pennsylvania.

Smith, H., T. DeWitt, and T. Goebel (2010) Digital Shape Analysis of Clovis Projectile Points. Paper presented at the 75th Annual Meeting of the Society for American Archaeology, St. Louis, Missouri.

Smith, H., T. Goebel, S. Slobodin, and M. R. Waters (2009) New Dates from Ushki-1, Kamchatka, Confirm 13,000 cal B.P. Age for Earliest Paleolithic Occupation. Paper presented at the 17th Annual Arctic Conference, Boulder, Colorado.

Conference Symposia Organized

Smith, H., and J. Tune (2018) Fluted Point Technology: Variation Across a Hemisphere. Symposium at the 83rd Society for American Archaeology Annual Meeting, Washington D.C.

Wygal, B, and **H. Smith** (2015) Papers on Environmental Archaeology. Symposium at the 42nd Annual Meetings of the Alaska Anthropological Association, Anchorage, Alaska

Academic Archaeological Field and Laboratory Projects

2023-present	Freeman Ranch Site Survey and Preliminary testing San Marcos, Texas Principal Investigator: H. Smith, Ph.D., TXST
2021-present	Spring Lake Site, 41HY160 & 41HY161 Archaeological Excavation and Geoarchaeological Investigations San Marcos, Texas Principal Investigator: H. Smith, Ph.D., TXST
2017-present	San Ysidro Rockshelter Rockshelter Survey, Monitoring, and Artifact Preservation Study San Ysidro, New Mexico Principal Investigator: H. Smith, Ph.D., ENMU/TXST
2019-2021	Survey: Pre-historic Use of Geothermal Features Taos/Socorro, New Mexico Principal Investigator: H. Smith, Ph.D., ENMU
6/2019	ENMU Summer Field School: Survey and Excavation in New Mexico, Socorro, San Ysidro, Blackwater Draw, New Mexico Instructor: Heather Smith Principal Investigators: H. Smith and B. Asher, Ph.D., ENMU
6/2017	ENMU Summer Field School: Excavation of the Creekside Village Site Tularosa Basin, New Mexico Instructor: Heather Smith Principal Investigator: D. Greenwald, Jornada Research Institute
7/2014	McDonald Creek Site (2043) Tanana River Valley, Alaska Excavation crew Principal Investigator: T. Goebel, Ph.D., Texas A&M
5/2014-7/2014	CSFA Summer Field School: Excavation and survey in the Nenana and Tanana River Valleys, Alaska Co-Instructor Principal Investigator: T. Goebel, Ph.D., Texas A&M
7/2012-8/2012	Kovrizhka Site Bodaibo, Siberia Excavation Crew Principal Investigator: A. Teten'kin, Ph.D., Irkutsk State Technical U.
6/2012-7/2012	Susitna River Valley, Alaska Survey and Preliminary Testing Crew Principal Investigator: J. Blong M.A., Texas A&M
7/2011-8/2011	BEN-192, Serpentine Hot Springs Site Bering Land Bridge National Preserve, Alaska Excavation Crew Chief Principal Investigator: T. Goebel, Ph.D., Texas A&M

7/2011	Susitna River Valley, Alaska Survey and Preliminary Testing Crew Principal Investigator: J. Blong, M.A., Texas A&M
6/2011-7/2011	Dry Creek Site Nenana River Valley, Alaska Excavation Crew Principal Investigator: K. Graf, Ph.D., Texas A&M
6/2011	Upper Tanana River Valley, Alaska Survey and Preliminary Testing Crew Principal Investigator: T. Goebel, Ph.D., Texas A&M
7/2010-8/2010	BEN-192, Serpentine Hot Springs Site Bering Land Bridge National Preserve, Alaska Excavation Crew Chief Principal Investigator: T. Goebel, Ph.D. Texas A&M
7/2010	Denali National Park Savage River Valley, Alaska Survey and Preliminary Testing Crew Principal Investigator: J. Blong M. A., Texas A&M
5/2010-7/2010	Owl Ridge Site Teklanika River Valley, Alaska Excavation Crew Principal Investigator: K. Graf, Ph.D., Texas A&M
8/2009	Ghost Ranch Abiquiu, New Mexico Survey and Preliminary Testing Crew Principal Investigator: C. Crews, M. A., Texas A&M
6/2009-7/2009	Owl Ridge Site Teklanika River Valley, Alaska Excavation Crew Principal Investigator: K. Graf, Ph.D., Texas A&M
5/2009-6/2009	Debra L. Friedkin Site Salado, Texas Excavation Crew Principal Investigator: M. Waters, Ph.D., Texas A&M
6/2008-7/2008	Debra L. Friedkin Site Salado, Texas Excavation Crew Principal Investigator: M. Waters, Ph.D., Texas A&M
5/2008-6/2008	Bonneville Estates Rockshelter, Nevada Excavation Crew Principal Investigators: T. Goebel, Ph.D. and K. Graf, PhD., Texas A&M
8/2006-12/2006	41VT141 Laboratory Processing Inventory and cataloguing of artifacts recovered from the McNeill Ranch Site at Texas Archaeological Research Laboratory Preliminary lithic analysis Supervised by M. Bever, Ph.D., University of Texas at Austin

6/2006-7/2006	UT Austin Field School Victoria, Texas Survey, excavation, mapping, remote sensing and geoarchaeological field techniques at the McNeill Ranch Site (41VT141) Professor M. Bever, Ph.D., University of Texas at Austin
8/2005-11/2005	41LR297 Laboratory Processing Analyzed macrobotanical remains from the Gene Stallings Ranch Site (41LR297) at Texas Archaeological Research Laboratory Supervised by L. Bush, Ph.D.
7/2005	Texas Archaeological Society Field School Paris, TX Participated in excavation of the Gene Stallings Ranch Site (41LR297) Supervised by P. Mercado-Allinger, Ph.D., State Archaeologist
3/2005	THC Archaeological Stewardship Network Investigation in Lockhart, TX Survey Crew Supervised by D. Potter, Ph.D., Texas Historical Commission

Visiting Researcher: Lithic Analysis Conducted at Research Institutions

05/2014 Canadian Museum of Civilization, Gatineau, Quebec, CA 5/4-5/9/2014
04/2013 Frison Institute, University of Wyoming, Laramie, WY 4/22-5/1/2013
03/2013 Bureau of Land Management, Fairbanks, AK, 3/18-3/25/2013
02/2013 University of Western Ontario, London, ON, Canada, 2/17-3/1/2013
02/2013 National Museum of Natural History, Washington D.C., 2/3-2/15/2013
12/2012 Parks Calgary Canada, Calgary, AL, Canada, 12/10-12/16/2012
12/2012 Royal Alberta Museum, Edmonton, AL, Canada, 12/3-12/7/2012
11/2012 Simon Fraser University, Vancouver, BC, Canada, 11/28-29/2012
11/2012 Royal British Columbia Museum, Victoria, BC, Canada, 11/27/2012
11/2012 National Park Service, Anchorage, AK, 11/15-11/16/2012
11/2012 Bureau of Land Management, Fairbanks AK, 10/31-11/13/2012
10/2012 University of Alaska Museum of the North, Fairbanks, AK, 10/13-10/30/2012
11/2008 National Museum of Natural History, Washington D.C., 11/10-11/14/2008
10/2008 Texas Archaeological Research Laboratory, Austin, TX, 11/2008

Section 106 Compliance

2017 – 2022 **Eastern New Mexico University (NM Bureau of Land Management)**
Principal Investigator/Project Archaeologist
- Archaeological Survey: San Ysidro Rockshelter

PI: Heather Smith, Ph.D.

Summer 2016 **Prewitt and Associates, Inc.**
Archaeological Technician
- Archaeological mitigation: Frost Town Historic Site

PI: Douglas Boyd, Ph.D.

Summer 2015 **The Center for Environmental Management of Military Lands**
Archaeological Technician

Fort Wainwright, Alaska
- Cultural resource identification and comprehensive inventory surveys.
- Archaeological reconnaissance and mitigation.
- National Register of Historic Places eligibility assessment.
- Archaeological resource monitoring.
- Cultural resources data management and analysis.

PI: Julie Esdale, Ph.D., Colorado State

2010-2011 **Center for the Study of the First Americans**
Student Archaeological Technician
- Archeological investigations undertaken on Federal lands conducted under a Permit for Archeological Investigations.
- Consultation with Native Alaskan tribal organizations.
- Preparation and application for permits for archeological investigation in compliance with the
- Archaeological Resources Protection Act (ARPA) and Antiquities Act (16 USC 433).
- Preparation and submission of archeological investigation reports to the National Park Service
- regional director.

PI: Ted Goebel, Ph.D., Texas A&M University

Spring 2005 **Texas Historical Commission**
Student Archaeological Intern
- THC Archaeological Stewardship Network Investigation
- Archaeological reconnaissance (phase 1)

PI: Dan Potter, Ph.D., Texas Historical Commission

Special Skills and Training

Language Russian-to-English translation

Laboratory Lithic analysis, geoarchaeological analysis, 3D scanning, artifact photography, macro- and micro-botanical/palynological analysis, XRF analysis.

Microscopy JEOL JSM-6400 scanning electron microscope

Software
Geometric Morphometric Analysis- tpsDig2, tpsRegr, tpsUtil, tpsRelw, Morpho-J, R
Spatial Analysis- ArcGIS
RC Calibration Analysis- Oxcal, Calib
Statistical Analysis-SAS JMP, SPSS, MiniTab, R
Graphic Design (Publication and Web Development)- Adobe Photoshop, Illustrator, Flash, Premier, InDesign, Fireworks, CorelDRAW, Micromedia Dreamweaver, Quark Express, html, html5, CSS, JavaScript.
Text Editing- Microsoft Word, Excel, Access, Power Point, Adobe Acrobat

Affiliations

Society for American Archaeology
Council of Texas Archaeologists
Texas Archaeological Society
Alaska Anthropological Association