

Joshua L. Keene

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Education/Honors

- 2005 B.A., Anthropology, Eastern Washington University and a minor in Art. Graduated with honors (Cum Laude).
- 2009 M.A., Anthropology, Texas A&M University. Thesis title: *Site Formation Processes at the Buttermilk Creek Site (41BL1239), Bell county, Texas.*
- 2016 Ph.D., Anthropology, Texas A&M University. Dissertation title: *Geoarchaeology, Paleocology, and Holocene Subsistence Change on the Upper Snake River Plain, Idaho.*

Publications

Michael R. Waters and **Joshua L. Keene** (both contributed equally to this work), Steven L. Forman, Elton R. Prewitt, David L. Carlson, and James E. Wiederhold

(In Review) Pre-Clovis Projectile Points at the Debra L. Friedkin Site, Texas – Implications for the Late Pleistocene Peopling of the Americas. Submitted to *Science Advances*.

Goebel, Ted, Aria Holmes, **Joshua L. Keene**, and Marion M. Coe

2018. Technological Change from the Terminal Pleistocene Through Early Holocene in the Eastern Great Basin, USA: The Record from Bonneville Estates Rockshelter. *Lithic Technological Organization and Paleoenvironmental Change*, edited by Erick Robinson and Frederic Sellet, pp. 235-261. Springer, London.

Keene, Joshua L.

2018. A Diachronic Perspective on Projectile Point Morphology from Veratic Rockshelter, Idaho. *Quaternary International* 466 (part B):299-317.

Keene, Joshua L.

2016. Geochronology and Geomorphology of the Pioneer Archaeological Site (10BT676), Upper Snake River Plain, Idaho. *Geoarchaeology: An International Journal* 31(4):282-303.

Goebel, Ted and **Joshua L. Keene**

2014 Are Great Basin Stemmed Points as Old as Clovis in the Intermountain West? A Review of the Geochronological Evidence. In *Archaeology in the Great Basin and Southwest: Papers in Honor of Don D. Fowler*, edited by Nancy Parezo and Joel Janetski, pp.35-60. University of Utah Press, Salt Lake City.

Driese, Steven, Lee Nordt, Michael Waters, **Joshua L. Keene**

2013 Analysis of Site Formation History and Potential Disturbance of Stratigraphic Context in Vertisols at the Debra L. Friedkin Archaeological Site in Central Texas, USA. *Geoarchaeology: An International Journal* 28(3):221-248.

Waters, Michael R., Steven L. Forman, Thomas A. Jennings, Lee C. Nordt, Steven G. Driese, Joshua M. Feinberg, **Joshua L. Keene**, Jessi Halligan, Anna Lindquist, James Pierson, Charles T. Hallmark, Michael B. Collins, James E. Wiederhold

2011 The Buttermilk Creek Complex and the Origins of Clovis at the Debra L. Friedkin Site, Texas. *Science* 331: pp. 1559-1603.

Keene, Joshua L.

2009 *Site Formation Processes at the Buttermilk Creek Site (41BL1239), Bell County, Texas*. Masters Thesis, Department of Anthropology, Texas A&M University, College Station.

Conference Presentations/Posters and Invited Lectures

Keene, Joshua L.

2018 *Archaeological Investigations of the Archaic and Paleoindian occupation at Hall's Cave, Texas*. Invited lecture presented to the Institute of Archaeology and Department of Anthropology at Baylor University, Waco, TX, April 26.

Keene, Joshua L., Tyler Laughlin, Michael R. Waters, and Thomas Stafford

2018 *Archaeological Investigations of the Archaic and Paleoindian occupation at Hall's Cave, Texas*. Poster presented at the 83rd annual meeting of the Society for American Archaeology, Washington D.C.

David Carlson, Michael Waters and **Joshua Keene**

2018 *Intrasite Spatial Analysis at the Debra L. Friedkin Site, TX*. Poster presented at the 83rd annual meeting of the Society for American Archaeology, Washington D.C.

Keene, Joshua L.

2016 *A Tale of Two Rockshelters: A Comparison of Holocene Environmental and Lithic Technological Variation between the Bonneville Basin and the upper Snake River Plain at Bonneville Estates and Veratic Rockshelters*. Paper presented at the 35th Great Basin Anthropological Conference, Reno.

Keene, Joshua L., Ted Goebel

2016 *The Bonneville Basin and Snake River Plain Connection: Early Archaic Lithic Technology, Geochronology, and Obsidian Procurement at Bonneville Estates and Veratic Rockshelters*. Paper presented at the 81st annual meeting of the Society for American Archaeology, Orlando.

Ketron, Caroline, **Joshua L. Keene**, and Marion M. Coe

2014 *Analysis of Faunal Materials from the Pioneer Site (10BT676), Clark County, Southern Idaho*. Poster presented at the 34th Great Basin Anthropological Conference, Boise.

Keene, Joshua L.

2014 *Chronostratigraphic Analysis of Lithic Artifacts at Veratic Rockshelter (10CL3), Butte County, Southern Idaho*. Paper presented at the 34th Great Basin Anthropological Conference, Boise.

Keene, Joshua L.

2014 *Technological and Obsidian Source Analysis of Lithic Artifacts from Veratic Rockshelter (10CL3), Southeastern Idaho*. Paper presented at the 79th annual meeting of the Society for American Archaeology, Austin.

Keene, Joshua L., and Mayra Gracia

2013 *Preliminary Lithic and Spatial Analysis of the Adams Gravel Source Haskett Site (10BT1227), Butte County Idaho*. Poster presented at the Paleoamerican Odyssey Conference, Santa Fe.

Keene, Joshua L.

2012 *Birch Creek Revisited: Initial Analysis of the Bison and Veratic Rockshelter Collections*. Poster presented at the 33rd Great Basin Anthropological Conference, Stateline.

Keene, Joshua L., and Clayton Marler

2012 *Geoarchaeological Survey at the Idaho National Laboratory: Initial Findings at the Pioneer Site (10BT676)*. Poster presented at the 77th annual meeting of the Society for American Archaeology, Memphis.

Goebel, Ted, and **Joshua L. Keene**

2011 *A Critical Review of the "Long Chronology" for Stemmed Points of the Intermountain West, North America*. Paper presented at the 76th annual meeting of the Society for American Archaeology, Sacramento.

Heath, Gail, Clayton Marler, Julie Williams, Hollie Gilbert, Brenda Pace, and **Joshua Keene**

2011 *Human Riverine and Lacustrine Adaptations*. Paper presented at the 24th EEGS Symposium on the Application of Geophysics to Engineering and Environmental Problems, Charleston.

Keene, Joshua L., and Clayton Marler

2011 *XRF Analysis of Stemmed Points from the Idaho National Laboratory, Northeastern Snake River Plain*. Paper presented at the 76th annual meeting of the Society for American Archaeology, Sacramento.

Keene, Joshua L., and Clayton Marler

2010 *Human Riverine and Lacustrine Adaptations: 2010 INL Archaeological Testing Project*. Paper presented at the 32nd Great Basin Anthropological Conference, Layton.

Keene, Joshua L., and Michael Waters

2010 *Geoarchaeological Site Formation Processes of a Weakly Developed Vertisol at the Buttermilk Creek Site, TX*. Paper presented at the 75th annual meeting of the Society for American Archaeology, St. Louis.

Keene, Joshua L., Takako Sakamoto, Ted Goebel, Michael R. Waters, Bob Gal

2009 *A New Buried and Datable Fluted Point Site in Beringia: New Information from Serpentine Hot Springs*. Paper presented at the 17th annual Arctic Conference, University of Colorado at Boulder, Colorado.

Keene, Joshua L., and Michael Waters

2008 *Site Formation Processes at the Buttermilk Creek Site (41BL1239), Bell County, Texas*. Poster presented at the 73rd annual meeting of the Society for American Archaeology, Vancouver.

Galm, Jerry, and **Joshua L. Keene**

2006 *An Archaeological Perspective on the Genesis of "Mima" Mounds in Eastern Washington*. Poster presented at the 71st annual meeting of the Society for American Archaeology, San Juan.

Keene, Joshua L., and Jerry Galm

2006 *Archaeology and the Genesis of "Mima" Mounds in Eastern Washington*. Poster presented at the 59th annual Northwest Anthropological Conference, Seattle.

Grants and Contracts Awarded

Keene, Joshua L. (2010) Curation and analysis of archaeological materials from the Pioneer (10BT676) and Adams Gravel Source (10BT1227) sites. Battelle Energy Alliance, Idaho National Laboratory, \$23,365.

Vision 2020 Dissertation Enhancement Award (2014), grant to complete lab analysis for dissertation research, College of Liberal Arts, Texas A&M University, \$4800.

Anthropology Department Scholarship (2011, 2012, 2013), based on overall performance and progress towards completing a degree, Center for the Study of the First Americans, Texas A&M University, \$3000 total.

Roy J. Shlemon Scholarship (2012), grant devoted to field-related research sponsored by the Center for the Study of the First Americans, Texas A&M University, \$2500.

Teaching Experience

ANT 1305 – Introduction to Anthropology, Fall 2017-Spring 2018 (two courses/semester)
Instructor of Record, Baylor University

ANT 2307 – Introduction to Archaeology, Spring 2017
Instructor of Record, Baylor University

ANTH 330 – Field School in Anthropology (5 week archaeology Field School). Summer 2012
Instructor, Texas A&M University

ANTH 415 – Anthropology Writing. Spring 2010
Instructor of record, Texas A&M University

ANTH 202 – Introduction to Archaeology. Spring 2011, Spring 2008, Spring 2007
Teaching assistant (Supervisor: Drs. Michael Waters and Bruce Dickson), Texas A&M University

ANTH 340 – Folklore and the Supernatural. Fall 2009
Teaching assistant (Supervisor: Dr. Thomas Green), Texas A&M University

ANTH 301 – Indians of North America. Fall 2007

Teaching assistant (Supervisor: Dr. Alston Thoms), Texas A&M University

ANTH 205 – Peoples and Cultures of the World

Substitute instructor (various)

I have also taught inexperienced undergraduate and graduate students in laboratory and field settings as field/lab director for the CSFA from May 2015 to present, working with materials from the Friedkin site and the Hall's Cave site. I have taught several short, non-credit courses to graduate students at the request of the Texas A&M Conservation Research Laboratory on the operation of the 3d-scanning "FARO Arm" and associated software, including eight half-day sessions over the span of a semester. I have also given demonstrations on use of a Bruker Tracer portable X-ray Fluorescence device, including basic operation, calibration, data processing, and research design.

Professional Experience

- Date: August 2016 to present
Supervisor: Dr. Michael Waters, Texas A&M University.
Experience: Full time post doc position focusing on site formation, 3d spatial analysis, and lithic technology of Paleoindian components at the Friedkin site, involving lab management, analysis, and development of an article for publication in *Science*. In addition, I was field and lab director for excavations at and analysis of the Hall's Cave archaeological and paleontological site.
- Date: January 2017 to present
Supervisor: Dr. Garrett Cook & Dr. Michael Muehlenbein, Baylor University.
Experience: Part-time adjunct professor in the Department of Anthropology. Instructor of record for Introduction to Archaeology (ANT-2307-1) and Introduction to Anthropology (ANT-1305-5 & 1305-6)
- Date: October 2015 to May 2016
Supervisor: Dr. Michael Waters, Texas A&M University.
Experience: Lab Manager overseeing undergraduate and graduate employees working in a lab setting to process, catalog, and analyze artifacts and other materials from excavations at the Friedkin archaeological site.
- Date: May - July 2015
Supervisor: Dr. Michael Waters, Texas A&M University.
Experience: Field Director of excavations at the Debra L. Friedkin Paleoindian archaeological site in Bell County, TX. Duties include hiring, education and management of both experienced and inexperienced undergraduate and graduate student field technicians, block excavation, site and camp logistics, field data recording and processing, site mapping, excavation and water screening.
- Date: September 2014 - May 2015
Supervisor: Dr. Ted Goebel, Texas A&M University

- Experience: Editorial assistant and graphic designer for new peer-reviewed journal, *Paleo.America*, including the following duties: digital figure and table illustration, proofreading/editing scholarly articles, artifact and artistic illustration, development of journal style guide, and correspondence with authors and reviewers.
- Date: 2009 - 2015
- Supervisors: Drs. Michael R. Waters, Ted Goebel, Texas A&M University
- Experience: Part-time archaeological lab technician, including the following duties: supervision of undergraduate and graduate volunteers and employees, artifact illustration, 3d artifact scanning, lithic analysis, research, digital figure and table illustration, XRF analysis.
- Date: May - August 2013
- Supervisor: Hollie Gilbert, BEA, Idaho National Laboratory
- Experience: Archaeological Survey and Excavation Collaboration Internship. Crew chief/PI for 2013 Excavation at the Pioneer site 10BT676. Duties included supervision of graduate student volunteers and INL employees, site and camp logistics, field data recording and processing, site mapping, excavation, and subsequent lab cataloging, data entry, analysis, and artifact curation as part of my ongoing Ph.D. research.
- Date: January 2013
- Supervisor: Dr. Jessi Halligan, Texas A&M University
- Experience: Crew chief for terrestrial shovel-testing project along the Aucilla river, Florida, as part of the Page-Ladsen project. Duties included supervision and instruction for undergraduate, graduate, and avocational volunteers, laying out and helpin organize a shovel test grid, test excavation and screening.
- Date: June - July 2012
- Supervisor: Drs. Ted Geobel and Kelly Graf, Texas A&M University
- Experience: Crew chief (Devil Creek survey) and PI (Pioneer site excavation and Adams Gravel Quarry sites surface survey) for TAMU archaeology field school. Duties included first-hand education and supervision of 10 undergraduate field school students. Taught methods for botanical and geologic field identification, diagnostic point identification, archaeological survey, shovel testing, site recording using SHPO criteria, total-station operation, block excavation and dry-screening of sediments. Other duties included site and camp logistics, field data recording and processing, site mapping, excavation, and subsequent lab cataloging, data entry, analysis, and artifact curation as part of my ongoing Ph.D. research.
- Date: May - August 2010, May-September 2011
- Supervisor: Clayton Marler, BEA, Idaho National Laboratory
- Experience: Geoarchaeologist/Geomorphologist Graduate Summer Intern. Crew chief/PI for 2010-2011 Paleoindian testing project along Big Lost River, particularly at the Pioneer site 10BT676. Duties included supervision of INL employees, including instruction and supervision of undergraduate interns,

and local Shoshone-Bannock Tribe volunteers/CRM archaeologists. Other duties included surface survey, test excavation, block excavation, site logistics, field data recording and processing, site mapping, excavation, and subsequent lab cataloging, data entry, analysis, and artifact curation as part of my ongoing Ph.D. research.

Date: June - August 2009
Supervisor: Drs. Ted Goebel and Kelly Graf, Center for the Study of the First Americans
Experience: Field technician at archaeological excavations of the Owl Ridge site near Denali National park and the Serpentine Hot Springs site in Bering Land Bridge National Preserve.

Date: June 2009
Supervisor: Dr. Michael Waters, Center for the Study of the First Americans
Experience: Field technician at the archaeological excavation of the Buttermilk Creek site (41BL1239) in Bell County, TX.

Date: June - July 2008
Supervisor: Dr. Ted Goebel, Center for the Study of the First Americans
Experience: Field technician at archaeological survey of Nenana River Valley near Healy, AK.

Date: June - July 2008
Supervisor: Dr. Michael Waters, Center for the Study of the First Americans
Experience: Assistant field director and field technician at the archaeological excavation of the Friedkin site (41BL1239) in Bell County, TX.

Date: June-July 2006, May-July 2007, May-June 2008
Supervisor: Dr. Michael Waters, Center for the Study of the First Americans
Experience: Field technician at the Friedkin site (41BL1239) in Bell County, TX.

Date: Summers, 2004 - 2006
Supervisor: Stan Gough, Archaeological and Historical Services, Eastern Washington University
Experience: Full-time archaeological field technician, involving test excavations, archaeological surveying and analysis of sites in Washington, Oregon, and Idaho. Part time artifact analysis and lab work from September 2004 to May 2005.

Date: 2004 - 2006
Supervisor: Dr. Jerry Galm, Eastern Washington University
Experience: Part-time archaeological lab technician, including lithic analysis of site materials and basic artifact cataloging.

Date: 2003, 2004
Supervisor: Drs. Jerry Galm and Sarah Keller, Eastern Washington University

Experience: Participated in two summer sessions at EWU's Archaeological Field School at Escure Ranch, Washington. Performed site survey work and test excavations at the Longmound site (45WT282).

Relevant Graduate Coursework (Texas A&M University)

- ANTH 601 – Biological Methods and Theory (3 credits)
- ANTH 602 – Archaeological Methods and Theory (3 credits)
- ANTH 604 – Cultural Methods and Theory (3 credits)
- ANTH 611 – Nautical Archaeology (3 credits)
- ANTH 620 – Prehistory of Texas (3 credits)
- ANTH 621 – Prehistoric Technology (3 credits)
- ANTH 624 – Geoarchaeology (3 credits)
- ANTH 630 – Human Evolutionary Ecology (3 credits)
- ANTH 637 – Paleoethnobotany (4 credits)
- ANTH 642 – Research Design in Anthropology (statistics, 3 credits)
- ANTH 646 – Ceramic Artifact Analysis (3 credits)
- ANTH 647 – Lithic Artifact Analysis (3 credits)
- ANTH 638 – Anthropology Proposal Writing (3 credits)
- GEOG 331 – Geomorphology (3 credits)
- GEOG 626 – Fluvial Geomorphology (3 credits)
- GEOG 660 – Applications in GIS (3 credits)
- GEOG 686 – Quaternary Geomorphology (3 credits)
- SCSC 310 – Soil Morphology and Interpretation (3 credits)
- ANTH 625 – Zooarchaeology (4 credits)
- ANTH 685 – Directed studies in Great Basin Archaeology (2 credits) and Advanced Archaeological theory (3 credits)
- ANTH 689 – Prehistory and Paleoecology of the Great Basin
- ANTH 689 – First Americans
- ANTH 689 – Prehistory of Northeast Asia and Alaska

Graphics Design Experience

Artword Editor

- 2015 *PaleoAmerica*, the interdisciplinary journal of the Center for the Study of the First Americans (v.1, iss. 1-3). Maney Publishing, Leeds.

Figure Designer and Artifact Illustrator

- Waters, Michael R., and Thomas A. Jennings

2015 *The Hogeve Clovis Cache*. Texas A&M University Press, College Station.

- Waters, Michael R., Charlotte D. Pevny, and David L. Carlson
2011 *Clovis Lithic Technology: Investigation of a Stratified Workshop at the Gault Site, Texas*. Texas A&M University Press, College Station.
- Pevny, Charlotte
2010 *Clovis Lithic Debitage from Excavation Area 8 at the Gault Site (41BL323), Texas: Form and Function*. Unpublished Ph.D. dissertation, Department of Anthropology, Texas A&M University, College Station.
- Goebel, Ted, Bryan Hockett, Kenneth D. Adams, David Rhode, and Kelly Graf
2011 Climate, environment, and humans in North America's Great Basin during the Younger Dryas, 12,900-11,600 calendar years ago. *Quaternary International* 242: 479-501
- Waters, Michael R., Thomas W. Stafford, Jr., H. Gregory McDonald, Carl Gustafson, Morten Rasmussen, Enrico Cappellini, Jesper V. Olsen, Damian Szklarczyk, Lars Juhl Jensen, M. Thomas P. Gilbert, and Eske Willerslev
2011 Pre-Clovis Mastodon Hunting 13,800 Years Ago at the Manis Site, Washington. *Science* 334:351-353.

Software/Hardware Competency

- Bruker Tracer III-SD pXRF and associated software
- Adobe Photoshop/Illustrator/Acrobat/ Dreamweaver
- Microsoft Office (Word, Excel, Access, PowerPoint)
- ArcGIS
- Autocad
- Surfer and Voxler (Goldensoft)
- SPSS
- R
- Nokia Set 630r Total Station via Carlson handheld device and manual operation
- FARO Arm 3d Laser Scanner and Geomagic 3d software

Professional Organization

2006-present, Member of the Society of American Archaeology
2016 – Tribal Consultation Basics SAA seminar

References

Dr. Michael Waters, Professor of Anthropology at Texas A&M University, Director of the Center for the Study of the First Americans

mwaters@tamu.edu

Dr. Ted Goebel, Professor of Anthropology at Texas A&M University, Associate Director of the Center for the Study of the First Americans

goebel@tamu.edu

Dr. Jessi Halligan, Assistant Professor of Anthropology at Florida State University

jessi.halligan@gmail.com

Dr. Kelly Graf, Assistant Professor of Anthropology at Texas A&M University

kgraf@tamu.edu