

DEVIN B. PETTIGREW

Archaeologist, PhD

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–RESEARCH AND TEACHING INTERESTS–

- ❖ North American Prehistory
- ❖ Hunter-gatherer Archaeology
- ❖ Experimental Archaeology
- ❖ Ancient hunting weapons, tools, and tactics
- ❖ Stone tool macroscopic and microscopic use-wear analysis
- ❖ Preserved organic artifact analysis and replication
- ❖ Sociopolitical and ecological intersections between traditional and modern hunting
- ❖ Public Archaeology—engaging public through reproduced hunter-gatherer technology

–EDUCATION–

- Ph.D.** Anthropology, University of Colorado Boulder 2021
Dissertation: The Origins and Evolution of Pre-Industrial Hunting Weapons: Ongoing Challenges and Recent Developments,
<https://www.proquest.com/docview/2619532514/abstract/20DD12428FC54836PQ/1>
- M.A.** Anthropology, University of Arkansas Fayetteville 2015
Thesis: The Ballistics of Archaic North American Atlatls and Darts,
<https://search.proquest.com/docview/1679469298/abstract/8B5DA24101844E4EPQ/1>
- B.A.** Fine Art and Anthropology, University of Arkansas Fayetteville 2008
Cum laude

–PUBLICATIONS–

- Pettigrew, Devin B., and William Taylor**
2023 Reassessing the terminal ballistic performance of trilobate and quadrilobate arrow points on Iron Age battlefields. *PLOS ONE* 18(7):e0288483.
- Pettigrew, Devin B., Justin Garnett, Caden Ryals-Luneberg, and Eric A. Vance**
2023 Terminal Ballistics of Stone-Tipped Atlatl Darts and Arrows: Results From Exploratory Naturalistic Experiments. *Open Archaeology* 9(1):20220299.

Pettigrew, Devin B., and Douglas B. Bamforth

2023 On the (Non-)scalability of target media for evaluating the performance of ancient projectile weapons. *Open Archaeology* 9(1):20220295.

Pettigrew, Devin B.

2018 Ozark Atlatls and Darts: Old Finds and New Interpretations. *Plains Anthropologist* 63:245(4-25).

Pettigrew, Devin B., John C. Whittaker, Justin Garnett, and Patrick Hashman

2015 How Atlatl Darts Behave: Beveled Points and the Relevance of Controlled Experiments. *American Antiquity* 80(3):590-601.

Taylor, W., I. Hart, C. Pan, J. Bayarsaikhan, J. Murdoch, G. Caspari, M. Klinge, K. Pearson, U. Bikhumar, S. Shnaider, A. Abdykanova, P. Bittner, M. Zahir, N. Jarman, M. Williams, **D. B.**

Pettigrew, M. Petraglia, C. Lee, E. J. Dixon, and N. Boivin

2021 High altitude hunting, climate change, and pastoral resilience in eastern Eurasia. *Scientific Reports* 11(1):14287.

Whittaker, John C., **Devin B. Pettigrew**, and Ryan Grohsmeyer

2017 Atlatl Dart Velocity: Accurate Measurements and Implications for Paleoindian and Archaic Archaeology. *PaleoAmerica* 3(2):161-181.

–CONFERENCE PRESENTATIONS–

Hilliard, Jerry and Devin B. Pettigrew

2014 Bluffs of the Ancestors. Poster presented at the 72nd meeting of the Plains Anthropological Society, Fayetteville, Arkansas.

Pettigrew, Devin B.

2013 Atlatls of the Ozark Bluffs. Poster presented at the 71st meeting of the Plains Anthropological Society, Loveland, Colorado.

2014 Atlatls of the Ozarks: Old Finds and New Interpretations. Paper presented at the 72nd meeting of the Plains Anthropological Society, Fayetteville, Arkansas.

2016 Ancient Projectile Weapons in Teaching and Public Outreach. Poster presented at the 81st annual meeting of the Society for American Archaeology, Orlando, Florida.

2018 Results and Effective Protocol of a Naturalistic Projectile Experiment. Paper presented at the 76th meeting of the Plains Anthropological Society, San Antonio, Texas.

2021 What Can You Hunt with an Atlatl? Improving Validity in Realistic Experiments. Paper presented at the 78th meeting of the Plains Anthropological Society, Boulder, Colorado.

2022 What Can Controlled Archaeological Projectile Experiments Tell Us? Paper presented at the 44th meeting of the Colorado Council of Professional Archaeologists, Denver, Colorado.

2023 Treating the Problem of Target Non-scalability in Archaeological Projectile Experiments. Paper presented at the 88th annual meeting of the Society for American Archaeology, Portland, Oregon.

Pettigrew, Devin B. and Jared Pebworth

2017 Ancient Weaponry from Ozark Bluffs. Paper presented at the 74th meeting of the Southeastern Archaeological Conference, Tulsa, Oklahoma.

Pettigrew, Devin B., Krista Evans, and Joanna Wurst

2012 Hell Gap: Resumed Excavations—Where are We Now? Poster presented at the spring meeting of the Wyoming Archaeological Society, Gillette.

Pettigrew, Devin B., and Marvin Kay

2015 Atlatl Dart and Arrowhead Microwear from the Woo-Pig Experiment. Poster presented at the 72nd meeting of the Plains Anthropological Society, Iowa City, Iowa.

Pettigrew, Devin B. and Tyler M. Harms

2022a Iowa Hunter Success After 40 Years of Weapon Development. Poster presented at the 82nd Midwest Fish and Wildlife Conference, Des Moines, Iowa.

2022b Iowa Hunter Success After 40 Years of Weapon Development. Poster presented at the Iowa Chapter of the Wildlife Society, Ames, Iowa.

Whittaker, John C., Devin B. Pettigrew, Justin Garnett, and Patrick Hashman

2014 Archaic Bevels and Atlatl Dart Performance. Paper presented at the 72nd meeting of the Plains Anthropological Society, Fayetteville, Arkansas.

–INVITED TALKS–

Backcountry Hunters and Anglers Black Bear Bonanza

May 2023

Ancient Bear Hunters and Atlatls

University of Tennessee Chattanooga

October 2021

Weapon Technology, Hunting Success, and the Search for Modern Behavior in Our Species

Colorado Archaeological Society, Indian Peaks Chapter

December 2021

What Can You Hunt with an Atlatl? Improving Validity in Realistic Experiments

–PUBLIC APPEARANCES–

A Life in Ruins Podcast, Episodes 18, 19, 75, 112, 170

March 2020-August 2023

Year of Plenty Podcast

January 2022

Bear Grease Podcast, Season 1, Episode 34

December 2021

–TEACHING EXPERIENCE–

Certificate in College Teaching

May 2021

Center for Teaching and Learning, University of Colorado Boulder

Lead Anthropology Graduate Teaching Assistant

August 2020 – May 2021

Center for Teaching and Learning, University of Colorado Boulder—Responsibilities: Planning and conducting coaching events to assist new and extant graduate teaching assistants and providing a point of contact between Anthropology and the Center for Training and Learning.

Graduate Teaching Assistant

August 2016 – May 2021

Anthropology Department, University of Colorado Boulder—Responsibilities: Creating recitation syllabi, planning and conducting formal lectures, creating and conducting recitation/lab activities, creating and grading assignments including lecture exams.

ANTH 1105 Exploring a Non-Western Culture: Tibet

ANTH 1140 Exploring a Non-Western Culture: The Maya

ANTH 1145 Exploring a Non-Western Culture: The Aztecs

ANTH 1190 Origins of Ancient Civilizations

ANTH 2200 Archaeology of Human History

ANTH 3000 Primate Behavior

ANTH 4350/4390 Summer Archaeological Field School

Graduate Teaching Assistant

August 2014 – May 2015

Anthropology Department, University of Arkansas Fayetteville—Responsibilities: Planning and conducting formal lectures and conducting group lab activities.

ANTH 1011L Introduction to Biological Anthropology Laboratory

–WORK EXPERIENCE–

PaleoWest

May 2022 – Sept. 2022

Senior Project Archaeologist/Crew Chief (full-time)—cultural compliance monitoring, pedestrian survey, site recording, and report writing for projects throughout the high plains and inter-mountain regions of Colorado and Wyoming. Office responsibilities included site mapping, creating and updating site forms, writing regional prehistoric overviews, and writing site environmental and cultural context narratives.

PaleoWest

2017 – Apr. 2022

Archaeological Technician (seasonal)—pedestrian survey and site recording throughout the high plains and inter-mountain regions of Colorado and Wyoming. Projects included survey of planned vegetation management areas on government lands, survey of a large proposed wind farm, revisiting rock art sites, and surveying visibility impacts of proposed

telecommunications towers on historical districts. Documented cultural contexts spanned the full range from historical early 20th c. to late Pleistocene.

Flat Earth Archeology, LLC

Nov. 2015 – Aug. 2016

Crew Chief (full-time)—pedestrian shovel-test survey, artifact photography, report writing, mapping and excavation of early Euroamerican homesteads in the Arkansas River valley.

Flat Earth Archeology, LLC

May 2015 – Nov. 2015

Archaeological technician (full-time)—excavation of a large multicomponent prehistoric campsite along Spring Creek in northwest Arkansas.

Arkansas Archeological Survey

2007 – Aug. 2014

Archaeological Technician (seasonal and full-time)—site survey and excavation, artifact curation and data analysis, artifact photography and Photoshop editing. Projects included curating an artifact collection from Pea Ridge Civil War Battlefield, a metal detecting survey at Prairie Grove Civil War Battlefield and subsequent artifact curation, a metal detecting survey of an 18th c. French and Indian camp site along the Black River, Ozark bluff shelter surveys, analysis of early 20th c. Ozark bluff shelter museum collections, rock art surveys, and excavations at Carden Bottoms, a 15th c. coalescent Native American village along the Arkansas River.

Panamerican Consultants

Summer 2013

Archaeological Technician (full-time)—excavation of a large multicomponent prehistoric campsite along Sugar Creek in Northwest Arkansas.

Bureau of Land Management, Newcastle, Wyoming

Summer 2012

Archaeological Technician (full-time)—reviewing cultural resources reports and energy extraction permits, management of a large paleo-archaic rock art site, surveying a proto-historic antelope trap, and surveying sites impacted by a 62,000-acre forest fire in the Black Hills of Wyoming.

–GRANTS AND AWARDS–

Lead Graduate Student Teaching Fellowship

Aug. 2020 – May 2021

\$2,500 teaching stipend, Center for Teaching and Learning, University of Colorado Boulder.
Role: teaching fellow

J. Tour Scholarship in Arts and Sciences

Aug. 2020 – May 2021

\$2,000 research stipend. Role: recipient

Center for the Study of Origins Fellowship

Aug. 2019 – Dec. 2019

\$11,400 research stipend. Role: graduate student research fellow

Beverly Sears Research Grant

January 2019

\$1,000 research grant. Role: recipient

Alice Hamilton Scholarship Fund

March 2018

\$600 research grant, Colorado Council of Professional Archaeologists. Role: recipient

–MEMBERSHIPS–

Texas Archaeological Society

August 2023 – Present

Colorado Council of Professional Archaeologists

March 2022 – Present

Golden Key International Honour Society

November 2015 – Present

Society for American Archaeology

April 2014 – Present

Plains Anthropological Society

October 2013 – Present

World Atlatl Association

March 2008 – Present

❖ Editor of the Newsletter, July 2014 – January 2016

❖ Vice President, September 2021 – Present