

# FOSA

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## FOSA Continuing Education

### Pre-Clovis: A Critical Analysis

#### SYLLABUS

#### **Class #1. 06 Feb 2024, 7:30 PM via Zoom**

Assigned Readings:

- Morrow, Juliet E. "After Anzick: Reconciling new genomic data and models with the archaeological evidence for peopling of the Americas." *Quaternary International* 444 (2017) 1-3, <http://dx.doi.org/10.1016/j.quaint.2017.07.002>, 1040-6182/© 2017 Published by Elsevier Ltd. Accessed 10/26/23.
- Fiedel, Stuart J., Initial Human Colonization of the Americas, *Redux, Radiocarbon*, 64, 4, (845-897), (2022). <https://doi.org/10.1017/RDC.2021.103>
- G. Haynes 2002, Selection from Chapter 2, Section 2.4 Defining Clovis: Is It a Culture? Pgs. 83-92.

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- I. Introduction – Class Purpose & Organization
  - II. Introduction – Critical Thought Skills
  - III. Overview – History of Paleoindian Research & Theories
  - IV. Radiocarbon Dating, Calibration - Revisions to Pleistocene / Holocene Dating
  - V. The Pleistocene - Holocene Transition
    - a. Climates
    - b. Environments
    - c. Sediments
  - VI. Clovis Paleoindian Horizon / Tradition

#### **Class #2. 13 Feb 2024, 7:30 PM via Zoom**

Assigned Readings:

- Williams, et. al., Stone Tool Technology at the Gault Site. In. Suarez & Ardelean, *People & Culture in Ice Age Americas.* The University of Utha Press, 2019.
- Potter, et. al., Current Understanding of the Earliest Human Occupations in the Americas: Evaluation of Becerra-Valdivia and Higham (2020). *PaleoAmerica* 2021
- Tom D. Dillehay (2021): A Commentary on Coordinating Genetic and Archaeology Studies of First Peoples, *PaleoAmerica*, DOI: 10.1080/20555563.2021.1932340

- VII. Peopling of the Western Hemisphere – Research Questions
- VIII. Asian Origins: Who, From Where, & When? Paleogenomic Advances
- IX. Geologic, Climatic, Biotic Constraints
- X. Entry Into North America
  - i. Beringia
  - ii. Ice Free Corridor
  - iii. Coastal Route
- XI. Colonizing Dispersal Through North & South America
- II. Pre-Clovis: Review of Current Evidence
- III. Lithic Technology Antecedents

**Class #3. 20 Feb 2024, 7:30 PM via Zoom**

Assigned Readings:

- Smith, Heather L., Susan C. Kuzminsky, and Anna Linderholm. 2019. Discerning Dispersals along the Pacific and Interior Corridors: Contributions of Geometric Morphometrics to the Peopling of the Americas. *PaleoAmerica*, DOI: 10.1080/20555563.2019.1696149
- M. R. Waters, J. L. Keene, S. L. Forman, E. R. Prewitt, D. L. Carlson, J. E. Wiederhold, Pre-Clovis projectile points at the Debra L. Friedkin site, Texas-Implications for the Late Pleistocene peopling of The Americas. *Sci. Adv.* 4, eaat4505 (2018). 10.1126/sciadv.aat4505
- Chatters JC, Potter BA, Prentiss AM, Fiedel SJ, Haynes G, Kelly RL, Kilby JD, Lanoë F, Holland-Lulewicz J, Miller DS, et al. 2021. Evaluating claims of early human occupation at Chiquihuite Cave, Mexico. *PaleoAmerica*. doi: 10.1080/20555563.2021.1940441.

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- IV. Advances in Archeological Analytics
    - a. Radiocarbon Dating IntCal20 Calibration Curve
    - b. Geometric Morphometric Shape Analysis & High-resolution three-dimensional (3D) imaging
    - c. Cladistics Analysis - identification of “tool lineages”
  - V. Critically Assessing Reported Archaeological Data
    - a. Applying Critical Thought
    - b. Project Assignments for next week
  - VI. Constraints on Archaeological Interpretation from the Archaeogenomic Evidence  
Guest Speaker – Dr. Stuart Fiedel

**Class #4. 27 Feb 2024, 7:30 PM via Zoom**

Assigned Readings:

**Group 1:**

- Davis LG, Bean DW, Nyers AJ. 2017. Morphometric and technological attributes of Western Stemmed Tradition projectile points revealed in a second artifact cache from the Cooper’s Ferry site, Idaho. *American Antiquity* 82(3):536–557.
- Davis et al., Late Upper Paleolithic occupation at Cooper’s Ferry, Idaho, USA, ~16,000 years ago. *Science* 365, 891–897 (2019) 30 August 2019.
- Fiedel, SJ, Potter, BA, Morrow, JE, Faught, MK, Haynes, CV Jr, Chatters, JC. 2021. Pioneers from northern Japan in Idaho 16,000 years ago? A critical evaluation of the evidence from Cooper’s Ferry. *PaleoAmerica* 7(1):28–42.
- Davis LG, Madsen DB, Sisson DA, Izuho M. 2021. Response to review of “Late Upper Paleolithic occupation at Cooper’s Ferry, Idaho, USA, ~16,000 years ago” by Fiedel et al. *PaleoAmerica* 7(1):43–52.

**Group 2:**

- M. R. Waters, J. L. Keene, S. L. Forman, E. R. Prewitt, D. L. Carlson, J. E. Wiederhold, Pre-Clovis projectile points at the Debra L. Friedkin site, Texas-Implications for the Late Pleistocene peopling of the Americas. *Sci. Adv.* 4, eaat4505 (2018). 10.1126/sciadv.aat4505
- Waters MR, Forman SL, Jennings TA, Nordt LG, Driese SG, Feinberg JM, Keene J, Halligan JL, Lindquist A, Pierson J, Hallmark CT, Collins MB, Wiederhold JE. 2011. The Buttermilk Creek complex and the origins of Clovis at the Debra L. Friedkin site, Texas. *Science* 331(6024):1599–1603.
- Morrow JE, Fiedel SJ, Johnson DL, Kornfeld M, Rutledge M, Wood WR. 2012. Pre-Clovis in Texas? A critical assessment of the “Buttermilk Creek Complex.” *Journal of Archaeological Science* 39(12):3677–3682.
- Williams TJ, Collins MB, Rodrigues K, Rink WJ, Velchoff N, Keen-Zebert A, Gilmer A, Frederick CD, Ayala SJ, Prewitt ER. 2018. Evidence of an early projectile point technology in North America at the Gault Site, Texas, USA. *Science Advances* 4(7): eaar5954.

VII. Group Presentation - Review & Assessment of Cooper’s Ferry, Idaho Site.

VIII. Group Presentation - Review & Assessment of Buttermilk Creek complex.

IX. Class Summary and Concluding Remarks