

FRANÇOIS B. LANOË, PH.D.

Assistant Research Professor

School of Anthropology & Bureau of Applied Research in Anthropology, University of Arizona
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Research Associate

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ACADEMIC INTERESTS

Ecological Anthropology
Hunter-Gatherer Archaeology
Applied Anthropology
Zooarchaeology & Biogeochemistry

EDUCATION

Ph.D. Anthropology, 2017, University of Arizona, Tucson.
M.Sc. Quaternary Sciences, 2011, National Museum of Natural History, Paris.
B.A. Archaeology, 2009, University of Rennes, France.

EMPLOYMENT & POSITIONS

2020-on	Assistant Research Professor. School of Anthropology & Bureau of Applied Research in Anthropology, University of Arizona, Tucson.
2017-on	Research Associate. Archaeology Department, University of Alaska Museum of the North, Fairbanks.
2018-on	Self-employed consultant.
2017-19	Senior Research Specialist. Bureau of Applied Research in Anthropology, University of Arizona, Tucson.
2016-17	Field Director. Bureau of Applied Research in Anthropology, University of Arizona, Tucson.
2016-17	‘Emil Haury’ Fellow. School of Anthropology, University of Arizona, Tucson.
2014-16	Teaching Assistant. School of Anthropology, University of Arizona, Tucson.
2013-15	Research Assistant. Bureau of Applied Research in Anthropology, University of Arizona, Tucson.
2012-15	‘Lewis Binford and Clark Howell’ Fellow. School of Anthropology, University of Arizona, Tucson.
2011-12	Research Assistant. University of Rennes, France.

GRANTS & CONTRACTS

% = award credit

External Grants (\$2.20M awarded)

in prep.	National Science Foundation , Human-Environment and Geographical Sciences Program (40% - with D. McWethy and N. Zedeño). <i>Human Response and Adaptation to Holocene Climate and Ecosystem Change in the Northern Rocky Mountains</i> . \$400K
in rev.	National Endowment for the Humanities (60% - with N. Zedeño). <i>The Materiality of Survivance at Indian Boarding Schools, Blackfeet Indian Reservation, Montana</i> . \$149K.
2023-26	National Science Foundation , Arctic Social Sciences Program, OPP-2329997/2329998 (30% - with B. Potter and J. Reuther). <i>Legacy of the Broken Mammoth Site: Exploring Subsistence Economies, Technological Organization, and Site Structure in Eastern Beringia</i> . \$931K
2021-24	National Science Foundation , Arctic Social Sciences Program, supplement to PLR-1827975 (50% - with N. Zedeño). <i>Expanding Knowledge Co-Production and Translational Activities in K-12 Tribal Education</i> . \$182K
2020-23	National Science Foundation , Arctic Social Sciences Program, supplement to PLR-1827975 (50% - with N. Zedeño). <i>Origins, Archaeology & Indigenous Mapping during Covid-19</i> . \$87K
2021-22	Bureau of Land Management (25% - with E. Pickering). <i>Western Montana Cultural Landscapes: Interactive Mapping and Virtual Reality Educational Resource</i> . \$80K
2019-22	National Science Foundation , Arctic Social Sciences Program, PLR-1827975 (50% - with N. Zedeño). <i>Matumaatapi: Integrating Archaeological and Indigenous Data Sources to Explore the Peopling of the North American Continent Along the Ice-Free Corridor</i> . \$885K
2015-17	National Science Foundation , Archaeology Program, DDIG BCS-1504654. <i>Human Palaeoecological Integration in Eastern Beringia</i> . \$25K
2015-16	National Geographic Society , Research and Exploration Grant #9708-15. \$5K
2015-16	American Philosophical Society , Lewis and Clark Fund. \$4K

External Contracts (\$229K awarded)

2023-24	University of Alaska Museum of the North . <i>Analysis of the Faunal Materials from the Carpenter Quarry Site</i> . \$6K
2023	Blackfeet Nation (50% - with N. Zedeño). <i>Class III Survey of the Two Medicine Road</i> . \$13K
2022-23	Municipality of Skagway, Alaska (50% - with N. Zedeño). <i>Archaeological Assessment of the Pius X Mission School Site</i> . \$112K
2022	Siyeh Communication (25% - with N. Zedeño and E. Pickering). <i>Fiber Optic Construction in the Blackfeet Indian Reservation, Montana – Archaeological Compliance Survey</i> . \$15K
2018-19	Blackfeet Nation (50% - with N. Zedeño). <i>Archaeological Monitoring at Glacier Route 3</i> . \$15K
2018-19	Blackfeet Nation (95% - with N. Zedeño). <i>Four Horns Dam: Survey Records, Tribal Para-Archaeology Training, and TCP Nominations</i> . \$25K
2018-19	Blackfeet Nation (50% - with N. Zedeño). <i>Blackfeet Communal Hunting and Landscape Engineering in the Northern Rocky Mountain Front</i> . \$43K

Internal Grants (\$44K awarded)

As Faculty

- 2022-23 **School of Anthropology**, University of Arizona. *Research Assistant Training: Survey and GIS Mapping of Caribou Drive Lines at Tukuto Lake, Alaska*. \$20K
- 2022-23 **Social and Behavioral Sciences Research Institute**, University of Arizona. \$4K

As Student

- 2013-17 **School of Anthropology** and **Arizona State Museum**, University of Arizona (multiple grants). \$14K
- 2015-16 **Social and Behavioral Sciences Research Institute**, University of Arizona. \$2K
- 2013-16 **Graduate and Professional Student Council**, University of Arizona (multiple grants). \$4K

FELLOWSHIPS & AWARDS

- 2020 Postdoctoral Researcher Award. University of Arizona.
- 2017 Edwin Hall Paper Award. Alaska Anthropological Association.
- 2016 Emil Haury Dissertation Writing Fellowship. University of Arizona.
- 2012 Lewis Binford and Clark Howell Fellowship. University of Arizona.
- 2011 Graduate Studies Fellowship. National Museum of Natural History, Paris.

PUBLICATIONS – BOOKS

- Binnema, T., F.B. Lanoë, and H. Pyszczyk (in press)
Cartographic Poetry: An Examination of Five Blackfoot Maps from 1801 and 1802. Edmonton:
University of Alberta Press.

PUBLICATIONS – PEER-REVIEWED ARTICLES

- Rowe, A., C. Bataille, S. Baleka, E.A. Combs, B.A. Crass, D. Fisher, S. Ghosh, C.E. Holmes, K.E. Krasinski, F.B. Lanoë, T.J. Murchie, H. Poinar, B.A. Potter, J. Rasic, J.D. Reuther, G.M. Smith, K.J. Spaleta, B.T. Wygal, and M.J. Wooller (2024)
A Female Woolly Mammoth's Lifetime Movements End in an Ancient Alaskan Hunter-Gatherer Camp. *Science Advances* 10: eadk0818.
- Potter, B.A., C.M. Halfman, H.J. McKinney, J.D. Reuther, B.P. Finney, F.B. Lanoë, J.A. López, C.E. Holmes, E. Palmer, M. Capps, and B.M. Kemp (2023)
Freshwater and Anadromous Fishing in Ice Age Beringia. *Science Advances* 9: adg6802.
- Kielhofer, J.R., J.E. Tierney, J.D. Reuther, B.A. Potter, C.E. Holmes, F.B. Lanoë, J. Esdale, M.J. Wooller, and N. Bigelow (2023)
The First brGDGT Temperature Reconstruction from Interior Alaska: Assessing 14,000 years of Deglacial to Holocene Temperature Variability and Potential Effects on Early Human Settlement. *Quaternary Science Reviews*.
- Reuther, J.D., C.E. Holmes, G.M. Smith, F.B. Lanoë, B. Crass, A. Rowe, and M.J. Wooller (2023)
The Swan Point Site: The Chronology of a Multi-Component Archaeological Site in Eastern Beringia. *Radiocarbon*.

- Chatters, J.C., B.A. Potter, A.M. Prentiss, S.J. Fiedel, G. Haynes, R.L. Kelly, J.D. Kilby, F.B. Lanoë, J. Holland-Lulewicz, D.S. Miller, J.E. Morrow, A.E. Perri, G. Politis, K.M. Rademaker, J.D. Reuther, B.T. Ritchison, G. Sanchez, I. Sánchez-Morales, M. Spivey-Faulkner, J.W. Tune, and C.V. Haynes (2022)
Evaluating Claims of Early Human Occupation at Chiquihuite Cave, Mexico. *PaleoAmerica* 8: 62-76.
- Lanoë, F.B., M.N. Zedeño, A.M. Jansson, V.T. Holliday, and J.D. Reuther (2022)
Glacial Kettles as Archives of Early Human Settlement along the Northern Rocky Mountain Front. *Quaternary Research* 105: 135-150.
- Potter, B.A., J.C. Chatters, A.M. Prentiss, S.J. Fiedel, G. Haynes, R.L. Kelly, J.D. Kilby, F.B. Lanoë, J. Holland-Lulewicz, D.S. Miller, J.E. Morrow, A.E. Perri, G. Politis, K.M. Rademaker, J.D. Reuther, B.T. Ritchison, G. Sanchez, I. Sánchez-Morales, M. Spivey-Faulkner, J.W. Tune, and C.V. Haynes (2022)
Current Understanding of the Earliest Human Occupations in the Americas: Evaluation of Valdivia-Becerra and Higham (2020). *PaleoAmerica* 8: 1-16.
- Shasseh, E.M., P. Fernandez, S.L. Kuhn, M.C. Stiner, S. Mentzer, D. Colarossi, A.E. Clark, F.B. Lanoë, M.C. Pailles, D. Hoffmann, A. Benson, E. Rhodes, M. Benmansour, A. Laissaoui, F. Malek, I. Ziani, P. Vidal Matutano, J. Morales, Y. Djellal, B. Longuet, J.-J. Hublin, M. Mouhiddine, F.-Z. Rafi, K.B. Worthey, I. Sánchez Morales, and A. Bouzouggar (2021)
Early Middle Stone Age Personal Ornaments from Bizmoune Cave (Morocco). *Science Advances* 7: eabi8620.
- Zedeño, M.N., E.R. Pickering, and F.B. Lanoë (2021)
Oral Tradition as Emplacement: Ancestral Blackfoot Memories of the Rocky Mountain Front. *Journal of Social Archaeology* 21: 306-328.
- Halfman, C.M., B.A. Potter, H.J. McKinney, T. Tsutaya, B.P. Finney, B.M. Kemp, E.J. Bartelink, M.J. Wooller, M. Buckley, C.T. Clark, J.J. Johnson, B.L. Bingham, F.B. Lanoë, R.A. Sattler, and J.D. Reuther (2020)
Ancient Beringian Paleodiets Revealed through Multi-Proxy Stable Isotope Analysis. *Science Advances* 6: eabc1968.
- Kielhofer, J.R., C. Miller, J.D. Reuther, C.E. Holmes, B.A. Potter, F.B. Lanoë, J. Esdale, and B. Crass (2020)
The Micromorphology of Loess-Paleosol Sequences in Central Alaska: A New Perspective on Soil Formation and Landscape Evolution since the Late Glacial Period (c. 16,000 cal yr BP to Present). *Geoarchaeology* 35: 701-728.
- Lanoë, F.B., J.D. Reuther, C.E. Holmes, and B.A. Potter (2020)
Small Mammals and Paleoenvironmental Context of the Terminal Pleistocene and Early Holocene Human Occupation of Central Alaska. *Geoarchaeology* 35:164-176.
- Lanoë, F.B., M.N. Zedeño, D.R. Soza, A.M. Jansson, and Blackfeet THPO (2020)
McKean in the Northern Rocky Mountain Front: Economic Landscape and Ethnogenesis. *Plains Anthropologist* 65: 227-248.
- Stephens, L., D. Fuller, N. Boivin, ... F.B. Lanoë, ... and E.C. Ellis [120 authors] (2019)
Archaeological Assessment Reveals Earth's Early Transformation Through Land Use. *Science* 365: 897-902.
- Lanoë, F.B., J.D. Reuther, C.R. Holloway, C.E. Holmes, and J.R. Kielhofer (2018).
The Keystone Dune Site: A Bølling-Allerød Hunting Camp in Eastern Beringia. *PaleoAmerica* 4: 151-161.

- Lanoë, F.B., J.D. Reuther, and C.E. Holmes (2018).
Task-Specific Sites and Paleoindian Landscape Use in the Shaw Creek Flats, Alaska. *Journal of Archaeological Method and Theory* 25: 818-838.
- Lanoë, F.B., J.D. Reuther, C.E. Holmes, and G.W.L. Hodgins (2017).
Human Paleoecological Integration in Subarctic Eastern Beringia. *Quaternary Science Reviews* 175: 85-96.
- Lanoë, F.B., and C.E. Holmes (2016).
Animals as Raw Material in Beringia: Insights from the Site of Swan Point CZ4b, Alaska. *American Antiquity* 81: 682-696.
- Reuther, J.D., B.A. Potter, C.E. Holmes, J.K. Feathers, F.B. Lanoë, and J.R. Kielhofer (2016).
The Rosa-Keystone Dunes Field: The Geology and Paleoecology of a Late Quaternary Stabilized Dune Field in Eastern Beringia. *The Holocene* 26: 1939-1953.
- Lanoë, F.B., S. Péan, and O. Yanevich (2015).
Saiga Antelope Hunting in Crimea at the Pleistocene-Holocene Transition: The Site of Buran-Kaya III Layer 4. *Journal of Archaeological Science* 54: 270-278.
- Péan, S., S. Puaud, L. Crépin, S. Prat, J. van der Plicht, H. Valladas, A.J. Stuart, D. Drucker, M. Patou-Mathis, F.B. Lanoë, and O. Yanevich (2013).
The Middle to Upper Palaeolithic Sequence of Buran-Kaya III (Crimea, Ukraine): New Stratigraphic, Palaeoenvironmental, and Chronological Results. *Radiocarbon* 55: 1454-1469.
- Lanoë, F.B. (2012).
Identification of *Vulpes corsac* (L., 1768) Within Upper Pleistocene Assemblages: Osteometric Data and Morphological Key of the Dentition. *Bulletin de la Société Préhistorique Française* 109: 331-334 [in French].

PUBLICATIONS – BOOK CHAPTERS

- Lanoë, F.B. (2023)
Periglacial Aeolian Sediments and the Peopling of North America. In Naudinot, N., and G. Marchand (eds.), *Préhistoire et Protobistoire de l'Ouest de la France : Nouvelles Perspectives en Hommage à Jean-Laurent Monnier*. Supplément à la Revue Archéologique de l'Ouest [in French].
- Hill, M.E., M.A. Wismer, E.J. Eastman, F.B. Lanoë, and M. Muschal (2016).
Analysis of the 10OA275 Zooarchaeological Material. In Arkush, B. (ed.), *Late Prehistoric Big-Game Hunting in Curlew Valley: Archaeological Investigations at 10OA275*. Boise: Idaho Historical Society, pp. 49-82.
- Marguerie, D., N. Bhiry, D. Todisco, S. Steelandt, P. Desrosiers, D. Gendron, C. Desbiens, F.B. Lanoë, and A. Schaffhauser (2015).
Environmental Changes of the Last Millennia in Nunavik (Québec Low Arctic) and their Impacts on Human Societies: the LOTECHAIN Project. In *2013-2014 Campaigns of the French Polar Institute*. Plouzané, France: IPEV, pp. 24-29 [in French].
- Tuffreau, A., R. Dobrescu, A. Petculescu, E. Ştiucă, S. Bălescu, F.B. Lanoë, and M.A. Wismer (2013).
La Adam Cave, Romania: A Carnivore Den Visited by Palaeolithic Hunters. In Saint-Martin, J.-P. (ed.), *Interdisciplinary Research in Dobrogea*. Bucharest: Amanda Edit, pp. 75-86 [in French].

WEBSITES

Lanoë, F.B. (2022)

Blackfoot Atlas of Place Names, Oral History, and Archaeology. University of Arizona Bureau of Applied Research in Anthropology Website for the Blackfeet Nation, Browning, Montana, and the Piikani First Nation, Brocket, Alberta. www.blackfootatlas.xyz

REPORTS & COMMISSIONS

Lanoë, F.B., J.D. Reuther, C.E. Holmes, G.M. Smith, and B. Doering (in prep.)

Hollembaek's Hill Excavations (2016-23). Report prepared for the Alaska Office of History and Archaeology and the State Historic Preservation Office, Anchorage. University of Alaska Museum of the North.

Lanoë, F.B., and M.N. Zedeño (2023)

Class III Survey of the Two Medicine Road, Blackfeet Indian Reservation, Montana. Report prepared for the Office of Federal Lands Highway, Vancouver, Washington, and the Blackfeet Tribe Historic Preservation Office, Browning. University of Arizona Bureau of Applied Research in Anthropology.

Lanoë, F.B., M.N. Zedeño, L. Bond, L. Bridgeman, and R. Bowman (2023)

Archaeological Assessment of the Pius X Mission School in Skagway, Alaska (SKG-00577). Report prepared for the Municipality of Skagway and the Skagway Traditional Council, Alaska. University of Arizona Bureau of Applied Research in Anthropology.

Zedeño, M.N., F.B. Lanoë, and E.R. Pickering (2022)

Fiber to the Premise Project, Blackfeet Reservation, MT: Class III Cultural Resource Survey. Report prepared for Siyeh Communications, Turtle Island Communications, Inc., and the Blackfeet Tribe Historic Preservation Office, Browning, Montana. University of Arizona Bureau of Applied Research in Anthropology.

Zedeño, M.N., E.R. Pickering, F.B. Lanoë, and D.R. Soza (2020)

Old Agency and Ghost Ridge. Nomination to the National Register of Historic Places prepared for the Blackfeet Tribe Historic Preservation Office, Browning, Montana, and the Bureau of Indian Affairs, Billings, Montana. University of Arizona Bureau of Applied Research in Anthropology.

Lanoë, F.B., D.R. Soza, E.R. Pickering, and M.N. Zedeño (2019).

Four Horns Lake Archaeological Survey Area of Potential Effect and Owl Child Complex. Report prepared for the Bureau of Indian Affairs, Billings, Montana, and the Blackfeet Tribe Historic Preservation Office, Browning. University of Arizona Bureau of Applied Research in Anthropology.

Lanoë, F.B., and M.N. Zedeño (2019).

Archaeological Monitoring at Glacier Route Three. Report prepared for the Office of Federal Lands Highway, Vancouver, Washington, and the Blackfeet Tribe Historic Preservation Office, Browning. University of Arizona Bureau of Applied Research in Anthropology.

Pickering, E.R., F.B. Lanoë, D.R. Soza, and M.N. Zedeño (2019).

Old Agency on Badger Creek Historical and Archaeological Assessment. Report prepared for the Bureau of Indian Affairs, Billings, Montana, and the Blackfeet Tribe Historic Preservation Office, Browning. University of Arizona Bureau of Applied Research in Anthropology.

- Smith, G.M., J.D. Reuther, C.E. Holmes, F.B. Lanoë, T. Parsons, and E.T. Perez (2019). *Western Shaw Creek Flats Archaeology and Geoarchaeology Project: 2018 Field Results*. Report prepared for the Alaska Office of History and Archaeology and the State Historic Preservation Office, Anchorage. University of Alaska Museum of the North. [progress report in 2017]
- Zedeño, M.N., E.R. Pickering, and F.B. Lanoë (2019). *Blackfoot Land and Life: Land Claims Report I & II*. Report prepared for the Kainai First Nation, Stand Off, Alberta. University of Arizona Bureau of Applied Research in Anthropology.
- Lanoë, F.B. (2018). *Nitawahsi: The Niitsitapi Territory and Associated Place Names*. Map prepared for the Piikani First Nation, Brocket, Alberta. University of Arizona Bureau of Applied Research in Anthropology.
- Zedeño, M.N., and F.B. Lanoë (2018). *Archaeology and Toponymy of the Blackfoot Aboriginal Territory*. Report prepared for the Piikani First Nation, Brocket, Alberta. University of Arizona Bureau of Applied Research in Anthropology.
- Zedeño, M.N., F.B. Lanoë, A.M. Jansson, A.J. Thompson, and D.R. Soza (2018). *Prehistoric Occupation Along the Rocky Mountain Front in the Blackfeet Indian Reservation: Billy Big Springs (24GL304)*. Report prepared for the Montana Department of Transportation, Helena, and the Blackfeet Tribe Historic Preservation Office, Browning. University of Arizona Bureau of Applied Research in Anthropology. [progress report in 2017]
- Lanoë, F.B. (2017). *Human Ecological Integration in Subarctic Eastern Beringia*. Unpublished Ph.D. Dissertation, University of Arizona, Tucson. Committee: Mary Stiner and Joshua Reuther (chairs), Vance Holliday, Steven Kuhn, and John Olsen.
- Reuther, J.D., C.E. Holmes, F.B. Lanoë, J.R. Kielhofer, C. Holloway, and G.M. Smith (2017). *Western Shaw Creek Flats Archaeology and Geoarchaeology Project: 2014-2016 Field Results*. Report prepared for the Alaska Office of History and Archaeology and the State Historic Preservation Office, Anchorage. University of Alaska Museum of the North. [progress reports in 2015, 2016]
- Zedeño, M.N., M.C. Pailes, F.B. Lanoë, J.A. Ballenger, C.S. Daughtrey, B.E. Bethke, and W.A. White (2016). *Archaeological Investigations at the St. Mary River Bridge Site (24GL203), Montana: Final Research Report*. Report prepared for the National Park Service, Rocky Mountain Region, Denver, Colorado. University of Arizona Bureau of Applied Research in Anthropology. [progress reports in 2014, 2015]
- Lanoë, F.B. (2011). *Faunal Analysis of the Buran-Kaya III Rockshelter – Layer 4 (Ukraine). Subsistence Economy during the Final Palaeolithic (Swiderian) in Crimea (Ukraine)*. Unpublished M.S. Thesis, National Museum of Natural History, Paris [in French]. Committee: Stéphane Péan (chair) and Marylène Patou-Mathis.
- Lanoë, F.B. (2010). *Faunal Analysis of the Abri Raymonden at Chancelade (Dordogne, France), Lower Terrace, Layer III*. Unpublished M.S. Internship Thesis, National Museum of Natural History, Paris [in French].

INVITED TALKS

- 2022 Department of Archaeology, Tel-Aviv University, Israel, September 11.
- 2022 Department of Archaeology, Simon Fraser University, British Columbia, Canada, April 7.
- 2022 Yukon Beringia Centre, Whitehorse, Canada, March 17.
- 2021 Archaeological Society of Alberta, Calgary, Canada, November 17.
- 2020 Department of Anthropology, University of Alaska Fairbanks, November 13.
- 2019 Piikani Nation, Brocket, Alberta, Canada, March 15.
- 2018 Department of Anthropology, University of Alaska Fairbanks, June 5.
- 2017 Department of Anthropology, University of Alaska Fairbanks, June 11.
- 2017 School of Anthropology, University of Arizona, Tucson, April 13.
- 2016 Yukon College, Whitehorse, Canada, September 14.
- 2016 Max Planck Institute for the Science of Human History, Jena, Germany, December 15.

ORGANIZED CONFERENCE SYMPOSIA

- 2022 *New Archaeological Research in the Middle Tanana Valley*. 49th Meeting of the Alaska Anthropological Association, February 28 - March 4.
- 2016 *Late Glacial Northern Landscapes: An Integrative Approach to Paleolandscape and Human Land Use Reconstructions*. 4th Landscape Archaeology Conference, Uppsala, Sweden, August 23-25.
- 2016 *Human Adaptations to Late Glacial and Early Holocene Climate and Environmental Changes: Towards a Trans-Atlantic Perspective*. 81st Annual Meeting of the Society for American Archaeology, Orlando, Florida, April 6-10.

CONFERENCE PRESENTATIONS

*major author

- 2024 **World Visions: Plains Vision Questing as Epistemology*. Paper, 89th Meeting of the Society for American Archaeology, New Orleans, Louisiana, April 17-21.
- 2024 *Pius X Mission School, Alaska: An Archaeological Investigation*. Paper, as above.
- 2024 *Northern Brooks Range Caribou Hunting Architecture*. Poster, as above.
- 2024 *Understanding the Later Denali / Northern Archaic Transition in the Middle Tanana and Middle Susitna River Basins, Alaska*. Paper, as above.
- 2024 *Site Assemblage Insights from the North Gerstle Point Site in the Middle Tanana River Basin, Alaska*. Paper, 51st Meeting of the Alaska Anthropological Association, Fairbanks, February 21-24.
- 2023 **The Porcupine Tail Site Complex, and the Concentration of the Archaeological Record on Isolated Hills of Interior Alaska*. Paper, 88th Meeting of the Society for American Archaeology, Portland, Oregon, March 29 – April 2.
- 2023 *The Carpenter Quarry Site – A Unique Excavation Strategy*. Paper, as above.
- 2023 *Adding to the Paleoenvironmental Framework for Early Settlement of Interior Alaska: New Perspectives on Local Changes in Vegetation and Hydrology from Plant Wax N-Alkanes*. Paper, as above.
- 2023 *Salvage Archaeology at the Carpenter Rock Mining Quarry in the Middle Tanana Valley*. Poster, 50th Meeting of the Alaska Anthropological Association, Anchorage, March 1-4.
- 2022 *Atsot-akeeh'-tuksin (From all Sides a Cairn for Posterity): Ancient Monuments and Collective Action Strategies in the North American Archaic*. Paper, University of Michigan Museum of Anthropological Anthropology at 100 Conference, September 9 – October 2.

- 2022 *After the Ashfall: What Ancient Environmental Disasters Can Tell Us About Human Attachments to the Landscape*. Paper, International Mountain Conference, Innsbruck, Austria, September 11-15.
- 2022 *Redefining the Archaic in the Northwestern Plains*. Paper, 87th Meeting of the Society for American Archaeology, Chicago, Illinois, March 30 - April 3.
- 2022 **Large Canid Remains from Late Pleistocene and Early Holocene Occupations of the Middle Tanana Valley*. Paper, 49th Meeting of the Alaska Anthropological Association, February 28 - March 4.
- 2022 *Soil Bacterial Compounds and Temperature Reconstruction at Early Archaeological Sites of the Middle Tanana Valley, Central Alaska*. Paper, as above.
- 2022 *Obsidian Procurement and Use in the Middle Tanana Valley*. Paper, as above.
- 2021 *After the Ash Fall: New Information on the Early Archaic Occupation at the Billy Big Spring Site, Montana*. Poster, 78th Plains Anthropological Conference, Boulder, Colorado, November 10-13.
- 2019 *That's the Spot! Long-Term Persistence in the Greater Northwest Plains*. Poster, 77th Plains Anthropological Conference, Bloomington, Indiana, October 16-19.
- 2019 **Environmental Change and Human Ecology in Central Alaska during the Early Holocene*. Poster, 84th Meeting of the Society for American Archaeology, Albuquerque, New Mexico, April 10-14.
- 2019 *Four Horns Lake, Montana: Physical and Spiritual Interactions*. Poster, as above.
- 2019 **Early Holocene Occupation of the Hollembaek's Hill Site, Central Alaska*. Paper, 46th Meeting of the Alaska Anthropological Association, Nome, February 27 – March 2.
- 2018 *Owl Child: Archaeology and Legends at Four Horns Lake, Montana*. Poster, 76th Plains Anthropological Conference, San Antonio, Texas, October 24-27.
- 2018 **Late Quaternary Floral Landscapes of the Rocky Mountain Front: A View from Billy Big Spring, Montana*. Poster, 83rd Meeting of the Society for American Archaeology, Washington, DC, April 11-15.
- 2018 *Beringian Landscapes and Human Responses in the Middle Tanana Valley, Alaska*. Paper, as above.
- 2018 *Dating and Summation of Seven Holocene Shoreline Sites at Quartz Lake, Interior Alaska*. Paper, 45th Meeting of the Alaska Anthropological Association, Anchorage, March 21-24.
- 2018 **Recolonization of the Northern Rocky Mountain Front after the Mount Mazama Eruption*. Poster, Volcanic Impact on Climate and Society 3rd Meeting, Tucson, Arizona, January 12-14.
- 2017 *An Organic Geochemistry Perspective on Deglacial Paleoclimate Variability in Central Alaska*. Paper, Geological Society of America Meeting, Seattle, Washington, October 22-25.
- 2017 *The Middle Archaic on the Rocky Mountain Front: A View from the Billy Big Springs Site, Montana*. Paper, 75th Plains Anthropological Conference, Bismarck, North Dakota, October 4-7.
- 2017 **Mobility and Territory Use in the Shaw Creek Flats, Beringia*. Poster, 82nd Meeting of the Society for American Archaeology, Vancouver, British Columbia, March 29 – April 2.
- 2017 **The Lion's Share: Human Palaeoecological Integration in Eastern Beringia*. Paper, 44th Meeting of the Alaska Anthropological Association, Fairbanks, February 28 – March 2.
- 2017 *Archaeobotanical Remains from the Keystone Dune Site*. Paper, as above.
- 2017 *Holocene Shoreline Sites and Lake Level Change at Quartz Lake, Alaska*. Paper, as above.
- 2017 *Late Quaternary Landscape Evolution of the Shaw Creek Basin*. Paper, as above.
- 2016 *Soil and Cultural Stratigraphy of the Billy Big Springs Site, Montana*. Paper, 74th Plains Anthropological Conference, Lincoln, Nebraska, October 12-15.
- 2016 **Resource and Landscape Use in Late Pleistocene Beringia: A View from the Shaw Creek Flats*. Paper, 4th Landscape Archaeology Conference, Uppsala, Sweden, August 23-25.

- 2016 *Landscape Evolution and Human Occupation of the Middle Tanana Basin: A High-Resolution Record of Late Glacial and Early Holocene Environmental Change and Hunter-Gatherer Land Use in Eastern Beringia*. Paper, as above.
- 2016 **Animal Resources and Technology in Eastern Beringia during the Late Pleistocene*. Paper, 81st Meeting of the Society for American Archaeology, Orlando, Florida, April 6-10.
- 2016 **Archaic Bison of the Southwest: The Cave Creek Midden Site (Arizona) and Beyond*. Paper, 39th Conference of the Society of Ethnobiology, Tucson, Arizona, March 16-19.
- 2016 **The Keystone Dune Site: Identifying a Bolling-Allerød Short-Term Hunting Camp*. Paper, 43rd Meeting of the Alaska Anthropological Association, Sitka, March 2-6.
- 2016 *Arizona Archaeological and Historical Society Sponsored Research*. Poster, 15th Southwest Symposium, Tucson, Arizona, January 14-16.
- 2015 **A Winter at Akulivik: Faunal Analysis of a Thule House at the site of Kangiakallak-1 (Nunavik, Québec)*. Poster, 80th Meeting of the Society for American Archaeology, San Francisco, California, April 15-19.
- 2015 *Coming-for-the-Bison, Going-to-the-Sun – Evolution and Significance of Staging Places on the Northern Rocky Mountain Front*. Paper, as above.
- 2015 *A Place to Pause: Investigations at the St. Mary Bridge Site (24GL203), Glacier County, Montana*. Poster, as above.
- 2015 *Summer at the Lake: New Carbon-14 (¹⁴C) Dates on “Old” Cultural Components at Quartz Lake, Interior Alaska*. Poster, as above.
- 2014 **Prehistoric Hunting and Fishing at the Saint Mary Bridge Site, Montana, USA*. Poster, 12th International Conference of ArchaeoZoology, San Rafael, Argentina, September 22-27.
- 2014 *Environmental Changes of the Last Millennia in Nunavik (Quebec Low Arctic) and their Impacts on Human Populations*. Paper, 10th Meeting of the Committee of Arctic and Antarctic Research, Rennes, France, May 26-27 [in French].
- 2013 *Hunting and Fishing at the Prairie’s Edge: The Saint Mary Bridge Site, Montana*. Poster, 71st Plains Anthropological Conference, Loveland, Colorado, October 2-6.
- 2013 **Subsistence in Crimea during the Younger Dryas, A Case Study: Buran-Kaya III Rock-Shelter*. Poster, 78th Meeting of the Society for American Archaeology, Honolulu, Hawai’i, April 3-7.
- 2013 *Exploring Late Prehistoric Subsistence Change at the West Fork Rock Creek Site (10Oa275), Idaho*. Poster, as above.
- 2012 *The Middle to Upper Palaeolithic Sequence of Buran-Kaya III (Crimea, Ukraine): New Stratigraphic, Palaeoenvironmental, and Chronological Results*. Paper, 21st International Radiocarbon Conference, Paris, France, July 9-13.
- 2012 *La Adam Cave, Romania: A Carnivore Den Visited by Palaeolithic Hunters*. Paper, Interdisciplinary Research in Dobrogea Meeting, National Museum of Geology, Bucharest, Romania, May 17-18 [in French].
- 2012 *Taphonomy Examined: New Investigations at La Adam Cave (Romania)*. Poster, 77th Meeting of the Society for American Archaeology, Memphis, Tennessee, April 18-22.
- 2012 *Spatial Organization in the Terminal Mousterian: Taphonomy and Neanderthal Behavior at the Grotte du Bison, Arcy-sur-Cure (France)*. Paper, as above.

TEACHING

Classroom Instruction

As Instructor

- 2024 **Ancient Peoples and Animals of Alaska.** Pre-college course for Indigenous Alaskans, University of Alaska Fairbanks
- 2020-23 **Principles of Archaeology.** Core undergraduate course, University of Arizona
- 2017 **Laboratory Zooarchaeology** (co-Instructor). Advanced undergraduate / graduate course, University of Arizona

As Teaching Assistant

- 2014 **Introduction to Archaeology.** Gen-ed undergraduate course, University of Arizona
- 2016 **Introduction to Biological Anthropology.** Gen-ed undergraduate course, University of Arizona

Committee Membership

- 2023-on **Lauren Bridgeman**, School of Anthropology, University of Arizona (Ph.D.)
- 2020-on **Miranda LaZar**, School of Anthropology, University of Arizona (M.A., Ph.D.)
Thesis: *Analysis of Lagopus Remains from a Nunamint Residential Site in Alaska.*
Dissertation: *Cultural and Ecological Relationships between the Unangaꝥ and Seabirds in the Aleutian Archipelago, Alaska*
- 2020-on **Korovin Ellis**, Department of Anthropology, University of Alaska Fairbanks (M.A.)
Thesis: *Lithic Debitage Analysis at the Hollembaek's Hill Site, Alaska.*
- 2021-22 **Caitria O'Shaughnessy**, School of Anthropology, University of Arizona (M.A.)
Thesis: *Impact of Federal Deregulations on Cultural Resources at Quitobaquito Springs, AZ*
- 2020-22 **Lauren Franklin**, School of Anthropology, University of Arizona (Ph.D.)

Research Assistant Mentorship

- 2020-on Lauren Bridgeman. Fieldwork & lithic analysis
- 2022-23 Miranda LaZar. Fieldwork, GIS & zooarchaeology
- 2019-23 Lucas Bond. Fieldwork & lithic analysis
- 2017-22 Danielle Soza. Fieldwork & lithic analysis
- 2020-21 Caitria O'Shaughnessy. GIS & zooarchaeology
- 2016-17 Ashleigh Thompson. Fieldwork
- 2016-17 Anna Jansson. Fieldwork & zooarchaeology

SERVICE

Grant Review

- 2023-24 National Science Foundation
- 2022 University of Arizona, Postdoctoral Affairs
- 2014-17 University of Arizona, Graduate and Professional Students Council

Journal Review

Canadian Journal of Archaeology

Journal of Biogeography

Quaternary International

Conference Staff

2013 Society for American Archaeology Meeting, Honolulu, Hawai'i

2010 International Council for ArchaeoZoology Conference, Paris, France

PROFESSIONAL MEMBERSHIP

Alaska Anthropological Association

Arizona Archaeological Council

International Council of ArchaeoZoology

Paleoanthropology Society

Plains Anthropological Society

Society for American Archaeology

Western Archaeological Association, France (AFO)

LANGUAGE SKILLS

native speaker:	French
fluent:	English
conversational:	Spanish, Gallo
reading:	Italian, Breton
technical knowledge:	Blackfoot [<i>niitsipowahsin</i>]

RESEARCH EXPERIENCE

Fieldwork:

Excavation and survey (academic and CRM)

Training of crew, students, and Indigenous people

Mapping (manual/robotic total station, handheld/external GPS)

Logistics (ATV/UTV, pack animals, land clearing) and safety (bears, firearms, aviation)

Analysis:

Zooarchaeology of terrestrial and marine mammals, birds, marine mollusks

Extraction of bone collagen and CO₂; stable isotopes ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$)

Preparation and curation of osteological comparative collections

Cartography (ArcGIS, Nunaliit) and statistics (R)

Applied:

Consultation and collaboration with Indigenous communities

Reporting and recommendation (NHRP) of sites and traditional places

Development of educational material

Indigenous Partners

2023-on	Healy Lake Village [<i>dineb</i>], Alaska
2013-on	Blackfeet Nation [<i>piikani</i>], Montana
2017-on	Piikani Nation, Alberta
2018-on	Kainai Nation, Alberta
2022-23	Skagway Village [<i>tlingit</i>], Alaska

Study Sites

D: (Co-)Director; I: Investigator; v: Volunteer

Alaska, Late Palaeolithic to Postcontact

in prep.	I	Hoholitna Caves, Kuskokwim
2023-on	I	Broken Mammoth [<i>daats'ebwt'ee denb ddbele</i>], Delta
2022-on	I	Carpenter Quarry [<i>ttbeethen t'ox</i>], Delta
2016-on	D	Hollembaek's Hill and North Gerstle Point [<i>nuun che</i>], Delta
2022-23	I	Tukuto Lake [ᑕᑕ], North Slope
2022-23	D	Pius X Mission School, Skagway
2014-20	D/I	misc. sites near Quartz Lake [<i>ttbeech'el menn</i>], Delta
2014-20	I	misc. paleontological megafauna statewide
2015-19	I	Swan Point [<i>ch'etthij' ddbele</i>], Delta
2013-18	v	Upward Sun River [<i>xaasaa na</i>], Salcha
2014-16	D	Keystone Dune, Delta

Montana, Paleoindian to Postcontact

in prep.	D	Heart Butte [<i>úskitsipupi-istúki</i>], Blackfeet Res.
2023-on	D	Willow Creek [<i>asitachtai</i>] School, Blackfeet Res.
2023-on	D	Holy Family Mission School, Blackfeet Res.
2023	I	misc. sites in the Madison valley, Madison/Gallatin Co.
2023	D	Two Medicine [<i>mátoki-okás</i>] Road, Blackfeet Res.
2016-22	D	Billy Big Spring [<i>asisinski-sisaxtai</i>], Blackfeet Res.
2022	I	Highway 89, Blackfeet Res.
2018-21	v	misc. tipi ring sites, Blackfeet Res.
2018-19	D	Old Blackfeet Agency [<i>ikae-tunyope</i>], Blackfeet Res.
2018-19	D	Four Horns Lake [<i>niso-otskina</i>], Blackfeet Res.
2018	D	Glacier Route 3 [<i>iksikwoyi-ituktai</i>], Blackfeet Res.
2013-16	I	St Mary Bridge [<i>púht-omuksikimiks</i>], Glacier NP

Europe and North Africa, Palaeolithic

2021-on	I	Mont-Dol, France
2015-21	I	Bizmoune Cave [ΘΞΧΕ:Ι], Morocco
2010-11	I	Buran-Kaya III [Бурян Кая], Crimea
2010-11	I	La Adam Cave [Peçtera Adam], Romania
2008-11	v	Grotte du Bison, Arcy-sur-Cure, France
2007-10	v	Menezh-Dregaň, Ploeneg, France
2010	I	Abric Raymonden, Chancelade, France
2010	v	Cauna de l'Aragó, Tautavel, France
2010	v	La Noira and La Terre-des-Sablons, Lunery, France

2010	v	Les Bossats, Ormesson, France
2009	v	Buisson-Campin, Verberie, France
2008	v	Grotte à Margot, Saulges, France

Miscellaneous

2023	v	Río Suchilapan, Veracruz, Mexico (Preclassic)
2022	v	Ceibal  , Petén, Guatemala (Preclassic to Classic)
2022	v	La Bonita de Buenos Aires, Tonosí, Panamá (Late Precontact)
2013-16	v	misc. sites in the Four Corners, Utah-Colorado (Archaic to Late Precontact)
2014-15	I	Cave Creek Midden [<i>chivi kanv</i>], Arizona (Archaic)
2015	v	Fin del Mundo, Sonora, Mexico (Paleoindian)
2011-14	v	misc. sites near Iowa City, Iowa (Up. Pleistocene to Postcontact)
2014	v	University Indian Ruins [<i>cuk son</i>], Arizona (Late Precontact)
2014	I	Kangiakallak [<i>bʰʳʌbʌʰ</i>], Nunavik, Canada (Late Precontact)
2011-12	v	Port-Blanc [<i>Porʷ Guen</i>], Edig, France (Iron Age)
2012	v	West Fork Rock Creek, Idaho (Late Precontact)
2012	v	Clos-du-Moulin, Piriac-sur-Mer, France (Middle Ages)
2012	v	Passe de l'Écuissière, Oléron, France (Neolithic)
2011	v	Maison-Champlain, Brouage, France (Modern)
2011	v	Villa de la Gare, Ar C'haeou, France (Antiquity)
2009	v	Guildo Castle, Qerhin, France (Middle Ages)
2008	v	Fanum des Châteliers, Amboise [AMBACIA], France (Antiquity)
2007	v	Le Goënidou, Berrien, France (Middle Ages)
2007	v	Pont-Calleck, Berne, France (Middle Ages)