

Andrew D. Gillreath-Brown, PhD Candidate, RPA

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RESEARCH INTERESTS *Paleoecology and paleoclimatology, future climate projections and agricultural impacts, Inequality, landscape ecology, GIS and spatial analysis, agent-based modeling, computational modeling, evolutionary archaeology, computational and quantitative methods in archaeology, complex adaptive systems, human settlement and demography, subsistence, agriculture, modern applications of archaeology, zooarchaeology, paleoethnobotany, hydrology, southwestern Archaeology*

EDUCATION

Expected 2021 **Washington State University**, Pullman, Washington
PhD, Anthropology, Specialization Track: Archaeology (GPA: 4.0)
Committee: Timothy Kohler (chair), Andrew Duff, Shannon Tushingham

August 2016 **University of North Texas**, Denton, Texas
MS, Applied Geography, emphasis in Environmental Archaeology (GPA: 4.0)
Thesis: *Looking Outward from the Village: The Contingencies of Soil Moisture on the Prehistoric Farmed Landscape near Goodman Point Pueblo*
Committee: Lisa Nagaoka (chair), Feifei Pan, Reid Ferring, Steve Wolverton

December 2011 **Middle Tennessee State University**, Murfreesboro, Tennessee
BS, Anthropology and Archaeology, Minor in Music
Senior Thesis: *An Exploration of Turtle Shell Rattle Manufacture in the Mississippian Period*
Committee: Tanya M. Peres (director), Jackie Eller (chair), Kevin Smith, William Leggett

May 2008 **Freed-Hardeman University**, Henderson, Tennessee
BS, Mathematics and Natural Sciences
BA, Religious Studies

August 2005 **Wallace State Community College**, Hanceville, Alabama
AS, Pre-Engineering

EDITORIAL POSITIONS

March 2015 – Present Editorial Assistant for *Ethnobiology Letters* ([ISSN 2159-8126](https://doi.org/10.1007/s12245-015-9312-1))

July 2016 – June 2017 Guest Editor for [Special Issue](https://doi.org/10.1007/s12245-017-9312-1) (June 2017 – Issue 2) in *Journal of Ethnobiology* ([Online ISSN: 2162-4496](https://doi.org/10.1007/s12245-017-9312-1))

AWARDS, ACCOLADES, AND GRANTS

2020–2021 **Dissertation Year Fellowship**
Graduate School, Washington State University, \$20,000 stipend, health insurance, and \$1,000 for travel

2020–2021 **Anne and Russ Fuller Fellowship for Interdisciplinary Research/Scholarship**
Graduate School, Washington State University, \$4,000

2020–2021 **Richard & Phyllis Daugherty Scholarship**
Department of Anthropology and College of Arts and Sciences, Washington State University, \$750

2019–2020	GPSA Dissertation Grant Graduate and Professional Student Association (GPSA), Washington State University, \$500
2019–2020	GPSA Chair-of-the-Year Graduate and Professional Student Association (GPSA), Washington State University
2019–2020	Anne and Russ Fuller Fellowship for Interdisciplinary Research/Scholarship Graduate School, Washington State University, \$4,000
2019–2020	Graduate School Scholarship Graduate School, Washington State University, \$1,000
2019–2020	Graduate and Professional Student Association (GPSA) College Representative and Director Scholarship Washington State University, \$2,500
2019	Graduate and Professional Student Association (GPSA) Research Exposition Award Washington State University GPSA Research Exposition and Academic Showcase, March 28, 2019. Award in Physical and Social Sciences category, Scholarship, \$500
2018–2019	Washington State Employees Credit Union (WSECU) Scholarship , \$2,500
2018–2019	Graduate and Professional Student Association (GPSA) Senator Scholarship Washington State University, \$500
2018	Lawrence R. Stark Archives Graduate Fellowship Manuscripts, Archives, and Special Collections, Washington State University Libraries, Washington State University, \$2,000
2018	Center for Digital Scholarship and Curation (CDSC) Summer Fellowship WSU Libraries and the College of Arts and Sciences, Washington State University, \$1,500
2017	Nicholas Michael Scoales Scholarship in Archaeology Department of Anthropology, Washington State University, \$1,000
2017	NWAC Graduate Student Paper Award Northwest Anthropological Conference, 70 th Annual Meeting in Spokane, Washington, April 12–15, 2017, \$150
2017	Anthropology Development Fund Department of Anthropology, Washington State University, \$1,000
2017–2018	Graduate and Professional Student Association (GPSA) Senator Scholarship Washington State University, \$500
2017–2019	Graduate Research Assistant Department of Anthropology, WSU Graduate School, Washington State University, \$10,890 for tuition (in-state), and \$15,178.68 for research assistantship stipend for fall and spring semesters, as well as hourly in Summer 2017
2016–2017	Graduate Research Assistant Department of Anthropology, WSU Graduate School, Washington State University, \$24,322 for tuition and fees (out-of-state), and \$14,764.50 for research assistantship stipend for fall and spring semesters
2016	Graduate Recruitment Fellowship Department of Anthropology, Washington State University, \$1,000
2016	Barbara Lawrence Award (Student Paper Award) Society of Ethnobiology, 39 th Annual Conference in Tucson, Arizona, March 16-19, 2016, \$350
2016	F. Andrew Schoolmaster Award for Outstanding Graduate Student Honors College, Award for Department of Geography and the Environment, University of North Texas, \$1,000
2015–2016	Graduate Academic Excellence (3.8 GPA or Higher) Department of Geography and the Environment, University of North Texas

- 2014–2016 **Graduate Assistantship Tuition Scholarship (GATS)**
Toulouse Graduate School, University of North Texas, \$17,142.84 for tuition and fees, and \$27,295.92 for teaching assistantship stipend for fall, spring, and summer semesters
- 2011 **Undergraduate Research Experience and Creative Activity (URECA) Grant**
Project: “Zooarchaeological Evidence for Turtle Shell Rattle Production.” Undergraduate Research Center, Middle Tennessee State University, Murfreesboro, TN, \$3,500

PEER-REVIEWED ARTICLES

- 2021 Shaw, Jack O., Emily Coco, Kate Wootton, Dries Daems, **Andrew Gillreath-Brown**, Anshuman Swain, and Jennifer A. Dunne
Disentangling Ecological and Taphonomic Signals in Ancient Food Webs. *Paleobiology* 47(3):385–401. <https://doi.org/10.1017/pab.2020.59>
- 2019 **Gillreath-Brown, Andrew**
Creation to Rhythm: An Ethnographic and Archaeological Survey of Turtle Shell Rattles and Spirituality in the United States. *Journal of Ethnobiology* 39(3):425–444. <https://doi.org/10.2993/0278-0771-39.3.425>
- 2019 **Gillreath-Brown, Andrew**, Lisa Nagaoka, and Steve Wolverton
A Geospatial Method for Estimating Soil Moisture Variability in Prehistoric Agricultural Landscapes. *PLOS ONE* 14(8):e0220457. <https://doi.org/10.1371/journal.pone.0220457>
- 2019 **Gillreath-Brown, Andrew**, Aaron Deter-Wolf, Karen R. Adams, Valerie Lynch-Holm, Samantha Fulgham, Shannon Tushingham, William D. Lipe, and R. G. Matson
Redefining the Age of Tattooing in Western North America: A 2,000-year-old Artifact from Utah. *Journal of Archaeological Science: Reports* 24:1064–1075. <https://doi.org/10.1016/j.jasrep.2019.02.015>
- 2018 Kohler, Timothy A., Phillip I. Buckland, Keith W. Kintigh, R. Kyle Bocinsky, Adam Brin, **Andrew Gillreath-Brown**, Bertram Ludäscher, Timothy M. McPhillips, Rachel Opitz, and Jeffrey Terstriep
Paleodata for and from Archaeology. *Past Global Changes Magazine* 26(2):68–69. <https://doi.org/10.22498/pages.26.2.68>
- 2018 Damitio, William J., **Andrew Gillreath-Brown**, and Shannon Tushingham
[Seeing the Forest for the Trees: A Spatial Database to Enhance Potential of Legacy Collections at the Washington State University Museum of Anthropology](https://doi.org/10.1016/j.jasrep.2019.02.015). *Journal of Northwest Anthropology* 52(2):183–199.
- 2018 **Gillreath-Brown, Andrew**, and Tanya M. Peres
An Experimental Study of Turtle Shell Rattle Production and the Implications for Archaeofaunal Assemblages. *PLOS ONE* 13(8):e0201472. <https://doi.org/10.1371/journal.pone.0201472>
- 2017 **Gillreath-Brown, Andrew**, and Tanya M. Peres
Identifying Turtle Shell Rattles in the Archaeological Record of the Southeastern United States. *Ethnobiology Letters* 8(1):109–114. <https://doi.org/10.14237/eb1.8.1.2017.979>
- 2017 **Gillreath-Brown, Andrew**, and R. Kyle Bocinsky
A Dialogue between Empirical and Model-based Agricultural Studies in Archaeology. *Journal of Ethnobiology* 37(2):167–171. <https://doi.org/10.2993/0278-0771-37.2.167>

BOOK CONTRIBUTIONS (*peer-reviewed)

- *2019 **Gillreath-Brown, Andrew**, and Aaron Deter-Wolf
Modeling Archaic Settlement Patterns and Ecology in the Middle Cumberland River Valley of Tennessee. In *The Cumberland River Archaic of Middle Tennessee*, edited by Tanya M. Peres and Aaron Deter-Wolf, pp. 145–166. University Press of Florida, Gainesville, Florida. 264 pp. ISBN: [9781683400837](https://doi.org/10.5744/florida/9781683400837.003.0009). <https://doi.org/10.5744/florida/9781683400837.003.0009>

DIGITAL PUBLICATIONS

- 2018 **Gillreath-Brown, Andrew**, J. Philip Gruen, Mark O'English, Jeffrey Sanders, Anna-Maria Shannon, Michael Wynne, Washington State University Historic Preservation Committee, Washington State University Center for Digital Scholarship and Curation, and Washington State University Libraries Manuscripts, Archives and Special Collections
Washington State University Buildings and Landscapes. Project used Scalar, digital humanities publishing platform. <http://cdsc.libraries.wsu.edu/scalar/wsu-buildings-landscapes>.
<https://doi.org/10.13140/RG.2.2.25491.53287>

SPECIAL ISSUES

- 2017 **Gillreath-Brown, Andrew**, and R. Kyle Bocinsky, co-editors
[Empirical and Model-based Agricultural Studies in Archaeology](#). *Journal of Ethnobiology* 37(2):167–307.

EDITORIALS

- 2021 Wyndham, Felice S., Janelle Baker, Kelly Bannister, Maria Bruno, Andrew Flachs, Cynthia Fowler, **Andrew Gillreath-Brown**, Elizabeth Olson, Kali Wade, and Sarah Walshaw
When is it Appropriate to Reference Identities, Relationships of Belonging, or Knowledge Lineages in Ethnobiological Scholarship? *Ethnobiology Letters* 12(1):73–78.
<https://doi.org/10.14237/ebl.12.1.2021.1779>
- 2019 Flachs, Andrew, Elizabeth Olson, John M. Marston, and **Andrew Gillreath-Brown**
Mentoring is an Intellectual Pillar of Ethnobiology. *Ethnobiology Letters* 10(1):104–108.
<https://doi.org/10.14237/ebl.10.1.2019.1656>

REVIEWS

- 2021 **Gillreath-Brown, Andrew**
Robert J. Hard and John R. Roney: Early Farming and Warfare in Northwest Mexico. Salt Lake City: The University of Utah Press, 2020, (ISBN 9781607816782) Price \$75.00 (Hardback). Xxii +400 Pp., 16 Color Plates. *Human Ecology* 49(2):233–235. <http://doi.org/10.1007/s10745-021-00230-3>
- 2016 **Gillreath-Brown, Andrew**
Traditional Arid Lands Agriculture: Understanding the Past for the Future. Edited by Scott E. Ingram and Robert C. Hunt. 2015. The University of Arizona Press, Tucson. 392 pp. *Ethnobiology Letters* 7(1):99–103. <http://doi.org/10.14237/ebl.7.1.2016.810>

THESES

- 2016 **Brown, Andrew**
Looking Outward from the Village: The Contingencies of Soil Moisture on the Prehistoric Farmed Landscape near Goodman Point Pueblo. Master's Thesis, Department of Geography, University of North Texas, Denton, TX. Available from UNT Digital Library:
<http://digital.library.unt.edu/ark:/67531/metadc862755/>.
<http://doi.org/10.13140/RG.2.2.17680.00004>
- 2011 **Brown, Andrew**
An Exploration of Turtle Shell Rattle Manufacture in the Mississippian Period. Senior Thesis, Middle Tennessee State University library, Murfreesboro, TN. <http://doi.org/10.13140/RG.2.1.2675.5921>

REPORTS

- 2021 **Gillreath-Brown, Andrew**
Collections Management and the Strawberry Island Collection: Making Corrections to the Collection in 2021. Museum of Anthropology, Washington State University, Pullman, WA.
- 2019 **Gillreath-Brown, Andrew**, and Cassady Fairlane

Reassessment and Corrections of the Strawberry Island (45FR5) Site Collection in Summer 2019.
Museum of Anthropology, Washington State University, Pullman, WA.

- 2018 Dombrosky, Jonathan, Laura Ellyson, **Andrew Gillreath-Brown**, and Steve Wolverton
Chapter 19: Faunal Remains. In *The Goodman Point Archaeological Project: Community Testing*, edited by Grant D. Coffey. Crow Canyon Archaeological Center, Cortez, CO.
<http://doi.org/10.6067/XCV8447957>
- 2018 **Gillreath-Brown, Andrew**, and William D. Lipe
Part 3. The Turkey Pen Midden: Inventory and Research History. In *Supporting Scientific Studies of Archaeological Collections from Cedar Mesa Canyons*, W. D. Lipe, A. Gillreath-Brown, N. Fournier, S. Tushingham, editors. Bureau of Land Management Grant 1511 (UT-952), Washington State University, Pullman.
- 2018 Lipe, William D., **Andrew Gillreath-Brown**, Nichole Fournier, and Shannon Tushingham, editors
Supporting Scientific Studies of Archaeological Collections from Cedar Mesa Canyons, Bureau of Land Management Grant 1511 (UT-952), Washington State University, Pullman.
- 2013 Deter-Wolf, Aaron, Benjamin A. Steere, and **Andrew Gillreath-Brown**
Pit Features. In *The Fernvale Site (40WM51): Late Archaic and Multicomponent Occupations along the South Harpeth River in Williamson County, Tennessee*, edited by A. Deter-Wolf. Tennessee Department of Environment and Conservation, Division of Archaeology Research Series No. 19, Nashville, TN.
Available at:
https://www.tn.gov/content/dam/tn/environment/archaeology/documents/researchseries/arch_rs19_fernvale_Rev_2016.pdf.
- 2013 McKee, Larry, and **Andrew Gillreath-Brown**
Archaeological Survey of Proposed Abiff Cellular Tower Site and Access Road in Dickson County, Tennessee. TRC, Inc. Submitted on October 28, 2013.

OTHER PUBLICATIONS

- 2019 **Gillreath-Brown, Andrew**, Jeongki Lim, Harun Siljak
Simulating Dystopian Worlds: A Sci-Fi Agent-based Modeling Anthology. 2019 Complex Systems Summer School Proceedings. Santa Fe Institute, Santa Fe, NM. <https://sfi-edu.s3.amazonaws.com/sfi-edu/production/uploads/ckeditor/2019/12/10/simulating-dystopian-worlds-sci-fi-abm.pdf>

Articles Under Review or in Advance Preparation

- Submitting **Gillreath-Brown, Andrew**, R. Kyle Bocinsky, and Tim A. Kohler
Low-Frequency Temperature and the Fortunes of Maize Agriculture in the Upland United States Southwest, 4500–500 BP. Will be submitting soon to *The Holocene or Quaternary International*.

PODIUM AND POSTER

- 2021 Deter-Wolf, Aaron, **Andrew D. Gillreath-Brown**
Identifying Tattooing Tools in Archaeological Collections: Historical Perspectives and New Approaches. In organized session, *The Production and Reception of Tattoo Work*. Paper to be presented at the 2021 Annual Conference of the Mid-Atlantic Popular & American Culture Association (MAPACA), November 10–13, 2021, virtual.
- 2021 Kohler, Tim, **Andrew D. Gillreath-Brown**, Darcy Bird, R. Kyle Bocinsky
From Unconstrained to Density-dependent Growth: 900 Years of Pueblo Pre/History. In organized session, *Demography in Archaeology beyond Boom and Bust? Critical Examinations of Phases of Under- and Overpopulation*. Paper presented at the 27th Annual Meeting of the European Association of Archaeologists (EAA), September 6–11, 2021, Kiel, Germany.

- 2021 Kohler, Tim, and **Andrew Gillreath-Brown**
Modelling Ancient Agricultural Societies in the Upland US Southwest. In organized seminar, *Modelling Ancient Agricultural Societies*. Paper co-presented at the TwoRains 2021 Conference, June 22 (May 18 – June 29), 2021, virtual.
- 2021 **Andrew Gillreath-Brown**
On Point: Using Scanning Electron Microscopy to Identify the Cactus Taxon of a 2,000-year-old Tattoo Tool. Poster presented at the Washington State University Plant Science Symposium, May 20–21, 2021, virtual.
- 2020 **Gillreath-Brown, Andrew**, and Aaron Deter-Wolf
Applications of Scanning Electron Microscopy and Portable X-ray Fluorescence Spectrometry in the Identification of a 2000-year-old Tattoo Tool. In organized symposium, *Archaeological Chemistry*. Paper presented at the SciX 2020, October 11–16, 2020, virtual.
- 2020 **Gillreath-Brown, Andrew**, R. Kyle Bocinsky, and Timothy A. Kohler
Food Risk and Maize Production: Experiments in Combining Low-frequency and High-frequency Temperature Signals in the Southwestern United States. In organized symposium, *Riskier Business: Comparative Approaches to Risk and Resilience in Dryland Environments*. Paper to be presented at the 85th Annual Meeting of the Society for American Archaeology Conference, April 22–26, 2020, Austin, Texas. Cancelled due to the COVID-19 pandemic.
- 2020 **Gillreath-Brown, Andrew**, R. Kyle Bocinsky, and Timothy A. Kohler
Southwestern United States Temperatures Reconstructed from Low- and High-frequency Data and the Implications for Maize Productivity. In organized symposium, *Paleoenvironments in Spatial Archaeological Modelling Applications*. Paper to be presented at the CAA 48th International Computer Applications and Quantitative Methods in Archaeology, April 14–17, 2020, Oxford, United Kingdom. Cancelled due to the COVID-19 pandemic.
- 2019 Shaw, Jack, Kate Wootton, Emily Coco, Dries Daems, **Andrew Gillreath-Brown**, and Anshuman Swain
Disentangling Taphonomic and Ecological Signals in Fossil Food Webs. In symposium, *Paleoenvironments in Spatial Archaeological Modelling Applications*. Paper presented at The Palaeontological Association 63rd Annual Meeting, December 15–21, 2019, University of Valencia, Spain.
- 2019 **Gillreath-Brown, Andrew**, Harun Siljak, and Jeongki Lim
Simulating Dystopian Worlds: A Sci-Fi Agent-based Modeling Anthology. Paper presented at CoMSES Network Virtual Conference, October 7–25, 2019. <https://forum.comses.net/t/simulating-dystopian-worlds-a-sci-fi-agent-based-modeling-anthology/7931>
- 2019 Knippenberg, Erwin, **Andrew Gillreath-Brown**, Alexander Bakus, Pam Mantri, Dan Krofcheck, and Fabian Dablander
Food Security and Resilience: A New Paradigm. 2019 Santa Fe Institute Complex Systems Summer School, July 3, 2019, Santa Fe, New Mexico.
- 2019 Malloy, John, Chris Boyce-Jacino, Dakota Murray, Mackenzie Johnson, Kyle Furlong, Ritwika VPS, and **Andrew Gillreath-Brown**
Lost in Translation? Evaluating the Gap in Science Policy Communication. 2019 Santa Fe Institute Complex Systems Summer School, July 3, 2019, Santa Fe, New Mexico.
- 2019 Shaw, Jack, Kate Wootton, Emily Coco, Dries Daems, **Andrew Gillreath-Brown**, and Anshuman Swain
Artificial Fossilization of Animal Interaction Networks. 2019 Santa Fe Institute Complex Systems Summer School, July 3, 2019, Santa Fe, New Mexico.
- 2019 **Gillreath-Brown, Andrew**, Harun Siljak, and Jeongki Lim
Sci-Fi ABM-Thology. 2019 Santa Fe Institute Complex Systems Summer School, July 3, 2019, Santa Fe, New Mexico.

- 2019 **Gillreath-Brown, Andrew**
An Archaeomusicological Study of Turtle Shell Rattle Music Culture Across the Contiguous United States. In symposium, *Ethnobiology Through Song*. Paper presented at 42nd Annual Society of Ethnobiology Conference, May 8–11, 2019, Vancouver, British Columbia, Canada.
- 2019 **Gillreath-Brown, Andrew**, Aaron Deter-Wolf, Karen R. Adams, Valerie Lynch-Holm, Samantha Fulgham, Shannon Tushingham, William D. Lipe, and R. G. Matson
Oldest Tattoo Tool in Western North America from the Turkey Pen Site, Utah. Poster presented at 42nd Annual Society of Ethnobiology Conference, May 8–11, 2019, Vancouver, British Columbia, Canada.
<http://doi.org/10.13140/RG.2.2.18587.52000>
- 2019 **Gillreath-Brown, Andrew**, R. Kyle Bocinsky, and Timothy A. Kohler
The Impact of Temperature on the Transition to Maize Agriculture in the Northern Upland United States Southwest. In symposium, *Global Perspectives on Climate-Human Population Dynamics during the Late Holocene*. Paper presented at the 84th Annual Meeting of the Society for American Archaeology Conference, April 10–14, 2019, Albuquerque, New Mexico.
- 2019 Bocinsky, R. Kyle, **Andrew Gillreath-Brown**, Timothy A. Kohler
Cultural Canons and the BMIII Climatic/Demographic Link. In sponsored (Crow Canyon Archaeological Center) symposium, *Adopting the Pueblo Fettle: The Breadth and Depth of the Basketmaker III Cultural Horizon*. Paper presented at the 84th Annual Meeting of the Society for American Archaeology Conference, April 10–14, 2019, Albuquerque, New Mexico.
- 2019 **Gillreath-Brown, Andrew**, Aaron Deter-Wolf, Karen R. Adams, Valerie Lynch-Holm, Samantha Fulgham, Shannon Tushingham, William D. Lipe, and R. G. Matson
Oldest Tattoo Tool in Western North America from the Turkey Pen Site, Utah. Poster presented at the Graduate and Professional Student Association Research Expo and Washington State University Academic Showcase, March 28, 2019, Pullman, Washington.
- 2019 O’English, Mark, **Andrew Gillreath-Brown**, J. Philip Gruen, Jeffrey Sanders
The WSU Buildings and Landscapes Site: Creating a Gateway to our Shared History. Poster presented at the Washington State University Academic Showcase, March 28, 2019, Pullman, Washington.
<http://doi.org/10.13140/RG.2.2.18069.78566>
- 2019 Damitio, William J., **Andrew Gillreath-Brown**, and Shannon Tushingham
Expanding Research Accessibility of Archaeological Collections: Development of a Geospatial Database for the Washington State University Museum of Anthropology. Poster presented at the 72nd Annual Northwest Anthropological Conference, March 20–23, 2019, Kennewick, Washington.
- 2018 Participant of “The Human Niche” Working Group, organized by Tim Kohler and Marten Scheffer, Santa Fe Institute, July 10–13, 2018.
- 2018 **Gillreath-Brown, Andrew**, and Jade d’Alpoim Guedes
Barley (*Hordeum vulgare*) Grain Size in the Indus Valley, Pakistan: Development of Local Varieties. In session, *Agricultural Practices*. Paper presented at 2018 Society for Economic Botany and Society of Ethnobiology Conference, June 3–7, 2018, Madison, Wisconsin.
- 2018 **Gillreath-Brown, Andrew**, R. Kyle Bocinsky, Eric C. Grimm, Simon Goring, and Timothy A. Kohler
Paleotemperature Reconstructions of the United States Southwest for the Last 2,000 years. In general session, *Environmental Archaeology*. Poster presented at the 83rd Annual Meeting of the Society for American Archaeology Conference, April 11–15, 2018, Washington, DC.
- 2018 **Gillreath-Brown, Andrew**, R. Kyle Bocinsky, Eric C. Grimm, Simon Goring, and Timothy A. Kohler
Paleotemperature Reconstructions of the Upland United States Southwest for the Last 2,000 years. Poster presented at the Graduate and Professional Student Association Research Expo and Washington State University Academic Showcase, March 29, 2018, Pullman, Washington.

- 2017 **Gillreath-Brown, Andrew**, R. Kyle Bocinsky, Keith Kintigh, Timothy Kohler, Bertram Ludäscher, Ann Kinzig, Carla Van West, Margaret Nelson, Adam Brin, Sarah Oas, Johnathan Rush, Timothy McPhillips, Yang Cao
Toward Effective Cyber-Infrastructure Support of Socio-Environmental Research. Poster presented at the 2017 EarthCube All-Hands Meeting, June 7–9, 2017, Seattle, Washington. Available at: <https://drive.google.com/file/d/0B98ahob66g2RVWxPQ19tM1lWUVk/view>.
- 2017 **Gillreath-Brown, Andrew**
Agricultural and Social Landscapes Leading Up to the Depopulation of the Central Mesa Verde Region: A Dialogue between Archaeology and Predicting Future Effects. Paper presented at the 70th Annual Northwest Anthropological Conference, April 12–15, 2017, Spokane, Washington.
- 2017 **Gillreath-Brown, Andrew**
Looking Outward from the Village: The Effects of Soil Moisture on Prehistoric Cropland in the Central Mesa Verde Region. In general session, *Archaeology in the American Southwest II*. Paper presented at the 82nd Annual Meeting of the Society for American Archaeology Conference, March 29–April 2, 2017, Vancouver, British Columbia, Canada.
- 2017 Moonkham, Piyawit, and **Andrew Gillreath-Brown**
Mythscape: An Ethnohistorical Archaeology of Space and Narrative in the Northern Thai Cultural Landscapes. In general session, *Archaeology in Southeast Asia I*. Paper presented at the 82nd Annual Meeting of the Society for American Archaeology Conference, March 29–April 2, 2017, Vancouver, British Columbia, Canada.
- 2017 **Gillreath-Brown, Andrew**, Lisa Nagaoka, and Steve Wolverton
Modeling Agricultural Field Locations Around Mississippian Period Sites in Tennessee: A Case Study from the Mound Bottom Site. Poster presented at the 28th Annual Current Research in Tennessee Archaeology Conference, January 27–28, 2017, Nashville, Tennessee.
- 2016 **Gillreath-Brown, Andrew**
Landscape Ecology and Puebloan Settlement Patterns in the Central Mesa Verde Region. Paper presented at the Geography, Anthropology, Biology Research Activities Forum, May 16, 2016, University of North Texas, Denton, Texas.
- 2016 **Brown, Andrew**, Lisa Nagaoka, Feifei Pan, and Steve Wolverton
Exploring Agricultural Field Locations and Proximity to Puebloan Habitation Sites by Modeling Soil Moisture in the Central Mesa Verde Region, Southwestern Colorado. In poster session, *Southwestern Archaeology*. Poster presented at the 81st Annual Meeting of the Society for American Archaeology Conference, April 6–10, 2016, Orlando, Florida. <http://doi.org/10.13140/RG.2.1.3100.9680>
- 2016 **Gillreath-Brown, Andrew**
A Geospatial Soil Moisture Model: Assessing Agricultural Field Locations and Risk Management in the Goodman Point Watershed, Southwestern Colorado. In symposium, *First Farmers, First Farms: Landscape Ecology of the Early Neolithic*. Paper presented at the 39th Annual Conference of the Society of Ethnobiology, March 16–19, 2016, Tucson, Arizona. Winner of the 2016 Barbara Lawrence Award (Best Student Paper Award).
- 2015 **Brown, Andrew**, Lisa Nagaoka, and Steve Wolverton
Modeling Soil Moisture of Farmland near Mississippian Period Sites in Davidson County, Tennessee. In poster session, *Pottery, Subsistence, and Ecology*. Poster presented at the 72nd Annual Meeting of the Southeastern Archaeological Conference, November 18–21, 2015, Nashville, Tennessee. <http://doi.org/10.13140/RG.2.1.2943.8803>
- 2015 **Brown, Andrew**, Lisa Nagaoka, Feifei Pan, and Steve Wolverton
Modeling Soil Moisture of Farmland near Mesa Verde Villages at Goodman Point, Southwestern Colorado. In poster session, *The Archaeology of Subsistence Strategies in the Southwestern United States*. Poster presented at the 80th Annual Meeting of the Society for American Archaeology Conference, April 15–19, 2015, San Francisco, California. <http://doi.org/10.13140/RG.2.1.4909.9600>

- 2015 **Brown, Andrew**, Lisa Nagaoka, Feifei Pan, and Steve Wolverton
Modeling Soil Moisture of Farmland near Mesa Verde Villages at Goodman Point, Southwestern Colorado. Poster presented at the Federation of North Texas Area Universities Graduate Student Research Symposium, April 10, 2015, Texas Woman's University, Denton, Texas.
- 2015 **Gillreath-Brown, Andrew**
The Modified Faunal Remains from the Spirit Hill Site: A Taphonomic Perspective. Paper presented at the 27th Annual Current Research in Tennessee Archaeology Conference, January 23–24, 2015, Nashville, Tennessee.
- 2014 **Gillreath-Brown, Andrew**
Scraping the Surface: Bone and Shell Modification at the Spirit Hill Site (1JA642). Paper presented at the 26th Annual Current Research in Tennessee Archaeology Conference, January 24–25, 2014, Nashville, Tennessee.
- 2013 **Brown, Andrew D.**
Shaking Things Up in the Tennessee: Turtle Shell Rattles in the Mississippian Period. Paper presented at the 25th Annual Current Research in Tennessee Archaeology Conference, January 25–26, 2013, Nashville, Tennessee.
- 2012 **Brown, Andrew**
Shaking Things Up in the Southeast: Turtle Shell Rattles in the Mississippian Period. Paper presented at the 69th Annual Southeastern Archaeological Conference, November 7–10, 2012, Baton Rouge, Louisiana.
- 2012 **Brown, Andrew**
An Exploration of Turtle Shell Rattle Manufacture in the Mississippian Period. Paper presented at the 35th Annual Society of Ethnobiology Conference, April 11–14, 2012, Denver, Colorado.
- 2012 **Brown, Andrew**
An Exploration of Turtle Shell Rattle Manufacture in the Mississippian Period. Paper presented at the 47th Annual Southern Anthropological Society Conference, March 14–17, 2012, Birmingham, Alabama.
- 2012 **Brown, Andrew**, and Tanya M. Peres
An Exploration of Turtle Shell Rattle Use in the Mississippian Period. Poster presented at the 24th Annual Current Research in Tennessee Archaeology Conference, January 27–28, 2012, Nashville, Tennessee.
- 2011 **Brown, Andrew**, and Tanya M. Peres
An Exploration of Turtle Shell Rattle Use in the Mississippian Period. Poster presented at the 68th Annual Southeastern Archaeological Conference, November 3–5, 2011, Jacksonville, Florida.
<http://doi.org/10.13140/RG.2.1.2861.9605>
- 2011 **Brown, Andrew**
Drilling the Carapace: Experimental Archaeology and Turtle Shell Rattles. Paper presented at the Tennessee Undergraduate Social Science Symposium, October 31–November 1, 2011, Murfreesboro, Tennessee.
- 2009 **Brown, Andrew**, and Lauren Hughes
A Modern Refuse Investigation of the Lower and Upper Socioeconomic Status Groups, East Main and South Hancock Streets, Murfreesboro, Tennessee. Paper presented at the Tennessee Undergraduate Social Science Symposium, October 30–31, 2009, Murfreesboro, Tennessee.

FORUM AND DISCUSSION

- 2021 Panel Discussant, *Tattoos, Humanities Longest Lasting Fad*
Paradise BYOB, Reinventing the Tattoo, October 3–6, 2021, Jiminy Peak, MA (& virtual).
- 2018 Discussant, *SKOPE: How We Are Making Paleoenvironmental Data Useful and Accessible*
Society for American Archaeology, 83rd Annual Meeting, April 11–15, 2018, Washington, DC.

INVITED LECTURES AND SEMINARS

- 2018 Washington State University Buildings and Landscapes. Presentation for Washington State University Center for Digital Scholarship and Curation (CDSC) Summer Fellows Showcase on December 3, 2018 at Center for Digital Scholarship and Curation, Washington State University, Pullman, Washington.
- 2016 *Looking Outward from the Village: Evaluating the Relationship between Prehistoric Cropland and Settlement using a Geospatial Soil Moisture Model in the Goodman Watershed*. Presentation (guest seminar) on June 27, 2016 at Crow Canyon Archaeological Center, Cortez, Colorado.
- 2015 *Collaborative Research: Modeling Crop Failure Potential in Late Pueblo Mesa Verde Villages*. Presentation (guest seminar) on August 5, 2015 at Crow Canyon Archaeological Center, Cortez, Colorado.
- 2014 *The Archaeology of Ancient Turtle Shell Rattles in Tennessee and the Southeast*. Presentation (invited lecture) at the Middle Cumberland Archaeological Society Meeting on April 15, 2014, Tennessee Historical Commission, Nashville, Tennessee.

OTHER PRESENTATIONS

- 2021 *From Farming to Body Modification: The Archaeology Of Tattooing*. Lecture in Art and Society (ANTH 201) at Washington State University (online), Vancouver, Washington, March 8, 2021.
- 2019 *Ancient Tattooing: An Overview of Tattoo Tools and Traditions through Time*. Latah County Library District, Moscow, Idaho, November 21, 2019.
- 2019 *Introduction to Interactive Plotting with Plotly in R*. Package introduction presentation at Washington State University R Working Group in the Center for Environmental Research, Education and Outreach (CEREO), Pullman, Washington, February 20, 2019.
- 2017 *Paleoclimate Reconstructions and Human Adaptation of the Past, Present, and Future*. Lecture in General Anthropology (ANTH 101) at Washington State University, Pullman, Washington, November 3, 2017.
- 2017 *Pollen-Based Paleo-Temperature Reconstructions*. Research profile presentation at Washington State University R Working Group in the Center for Environmental Research, Education and Outreach (CEREO), Pullman, Washington, October 25, 2017. Available at: <https://andrewgillreathbrown.wordpress.com/2017/11/20/pollen-based-paleo-temperature-reconstructions/>.

ACADEMIC AND ORGANIZATIONAL BLOG POSTS

- 2021 The Importance of Soft-bodied Organisms in Ancient Food Webs. Blog post for Paleobiology's Featured Issue, Paleontological Society, Cambridge Core Blog, posed on August 2, 2021. Available at: <https://www.cambridge.org/core/blog/2021/08/02/the-importance-of-soft-bodied-organisms-in-ancient-food-webs/>.
- 2019 On Point (And Not NPR): Ancient Tattooing in the Southwestern United States. Blog post for the Society of Ethnobiology's Forage! Blog, posted on September 16, 2019. Available at: <https://ethnobiology.org/forage/blog/point-and-not-npr-ancient-tattooing-southwestern-united-states>.
- 2016 *The Production of Prehistoric Turtle Shell Rattles in Tennessee*. Blog post for Tennessee Archaeology Awareness Month, hosted by Tennessee Council for Professional Archaeology, posted on September 12, 2016. Available at: <https://tennesseearchaeologycouncil.wordpress.com/2016/09/12/the-production-of-prehistoric-turtle-shell-rattles-in-tennessee/>. <http://doi.org/10.13140/RG.2.2.32424.42249>
- 2016 *Experiencing the Yaqui Cultural Center during the Ethnobiology Conference 2016*. Blog post for the Society of Ethnobiology's Forage! Blog, posted on September 7, 2016. Available at: <https://ethnobiology.org/forage/blog/experiencing-yaqui-cultural-center-during-ethnobiology-conference-2016>. <http://doi.org/10.13140/RG.2.2.28553.65129>
- 2015 *Exploring Agricultural Lands and Crop Failure around Mississippian Period Sites in Middle Tennessee*. Blog post for Tennessee Archaeology Awareness Month, hosted by Tennessee Council for Professional Archaeology, posted on September 25, 2015. Available at:

<https://tennesseearchaeologycouncil.wordpress.com/2015/09/25/30-days-of-tennessee-archaeology-2015-day-25/>. <http://doi.org/10.13140/RG.2.1.1938.9926>

- 2014 *Shake it like a Turtle Shell Rattle*. Blog post for Tennessee Archaeology Awareness Month, hosted by Tennessee Council for Professional Archaeology, posted on September 7, 2014. Available at: <https://tennesseearchaeologycouncil.wordpress.com/2014/09/07/30-days-of-tennessee-archaeology-day-7/>. <http://doi.org/10.13140/RG.2.2.18163.78886>

RESEARCH OUTREACH AND PRESS (*peer-reviewed)

***Redefining the Age of Tattooing in Western North America: A 2,000-year-old Artifact from Utah**

Media Interviews

- [2,000-year-old Tattoo Needle Identified by Archaeologists](#). Krista Langlois, *National Geographic*. February 28, 2019.
- Ancient Ink: The Story of Tattoos in North America. *National Geographic History Magazine*. July/August 2019.
- [Oldest Tattoo Tool in Western North America Discovered](#). Will Ferguson, *WSU Insider*. February 28, 2019. See also, the [EurekaAlert](#).
- [Artifact](#). Jarrett A. Lobell, *Archaeology Magazine*. [May/June 2019](#).
- [2,000-year-old Tattooing Needle Made from Cactus Spines Discovered in Utah](#). Hannah Osborne, *Newsweek*. February 28, 2019.
- [Prickly Pear Cactus Needles Are Oldest Tattoo Tool in Western North America](#). Laura Geggel, *Live Science*. February 28, 2019.
- [Scientists Discover an Ancient Tattoo Tool Hidden Among Museum Artifacts](#). Sarah Sloat, *Inverse*. February 28, 2019.
- [Found: The Oldest Tattoo Needles in Western North America](#). Matthew Taub, *Atlas Obscura*. February 28, 2019.
- [Researchers Discover 2,000-year-old Tattoo Needle Made from Cactus Spines](#). Written by Sheena Goodyear. Interview on *As It Happens*, produced by Richard Raycraft, *CBC Radio*. March 1, 2019.
- Oldest Tattoo Tool. Interview on *KXL Radio* in Portland with Grant Hill. March 1, 2019.
- [Descubierta una Herramienta de Tatuaje de Hace 2.000 Años en Utah \(Estados Unidos\)](#). Alec Forssmann, *National Geographic Spain*. March 4, 2019.
- [UnDisciplined: The Archaeologist And The Chemical Engineer](#). Matthew LaPlante, *Undisciplined*. Utah Public Radio. May 17, 2019.
- [WSU Student Discovers 2,000-year-old Tattoo Tool](#). Scott Jackson, *Moscow-Pullman Daily News*. March 4, 2019.
- [Así se Tatuaban los Indios Americanos Hace 2.000 Años](#). David Ruiz Marull, *La Vanguardia*. March 4, 2019.
- [أقدم أداة للوشم بأميركا الشمالية عمرها 2000 عام](#). Mohammed El-Said, *Al Jazeera News Arabic*. March 4, 2019.
- [A 2,000-year-old Tattoo Tool is the Oldest in Western North America](#). Bruce Bower, *Science News Magazine*. March 4, 2019.
- [Artifact from Bears Ears Region Identified as a Nearly 2,000-year-old Tattoo Needle — The Oldest Ever Found in Western North America](#). Sean P. Means, *Salt Lake Tribune*. March 6, 2019.
- 2000 Year Old Tattooing Tool Found in Southern Utah. *Fox 13 News KSTU*. March 3, 2019.
- [WSU Graduate Student Discovers 2,000-year-old Artifact](#). Elayne Rodriguez, *The Daily Evergreen*. March 7, 2019.

Other Media Coverage

- [This is One of the Oldest Tattooing Needles in North America](#). Alex Fox, *Science Magazine News*. March 1, 2019.
- [2,000-Year-Old Tattooing Instrument Identified from Bears Ears Region](#). David Anderson, *Forbes*. March 1, 2019.
- [These 2,000-Year-Old Needles, Still Sharp, Are the Oldest Tattooing Instruments Found in the Southwestern U.S.](#) Meilan Solly, *Smithsonian Magazine Smart News*. March 4, 2019.
- [The United States' Oldest Tattoo Needle is an Inked-Up Cactus Spine](#). David Grossman, *Popular Mechanics*. February 28, 2019.
- [A 2,000-year-old Tattoo Needle Still has Ink on the Tip](#). Kiona N. Smith, *Ars Technica*. February 28, 2019.
- [This Surprisingly Simple Tool Is a 2,000-Year-Old Tattoo Gun](#). Mike Mcrae, *Science Alert*. March 1, 2019.
- [2,000-year-old tattoo needle found in Utah](#). Jared Leone, *Cox Media Group National Content Desk*. February 28, 2019.
- [2,000-Year-Old Tattoo Tool Identified](#). *Archaeology Magazine News*. February 28, 2019.
- [Cactus Needle from Utah is Oldest Tattoo Tool in Western North America](#). Brittany A. Roston, *SlashGear*. February 28, 2019.
- [Ancient Artifact Unintentionally Discovered by Washington Archaeologist has 'Great Significance'](#). Jennifer Earl, *FOX News Channel Online*. March 1, 2019.
- [2,000-Year-Old Tattoo Tool Found in a Washington Storage Closet](#). George Dvorsky, *Gizmodo*. March 1, 2019.
- [The Ancestral Puebloans Were Getting Tattoos at Least 2,000 Years Ago](#). UPI, *Breitbart*. February 28, 2019.
- [From Bears Ears in Utah, a 2,000-year-old Tattooing Tool is Rediscovered](#). Xeni Jardin, *BoingBoing*. March 4, 2019.
- [Rovers Search for Alien Life, A Sad Sloth and FarFarOut: This Week in Space and Science](#). Ashley Strickland, *CNN International Online*. March 2, 2019.

Washington State University Buildings and Landscapes (digital publication)

- [Preserving WSU History](#). Cheryl A. Reed, *Graduate Students in the News*. April 1, 2019.
- [Website Brings WSU's History to Life](#). Cody Schoeler, *Daily Evergreen*. January 10, 2018.
- [If These Walls Could Talk](#), *College of Arts and Sciences' Story Hub*. January 2, 2018.
- [Website Provides First Comprehensive History of WSU Pullman Campus](#), *WSU Insider*. December 18, 2018.

****An Experimental Study of Turtle Shell Rattle Production and the Implications for Archaeofaunal Assemblages***

- [The Food of Love](#). Paula Neely, *American Archaeology Magazine*. December 2018.
- [Keeping the Beat: Turtle Shells Served as Symbolic Musical Instruments for Indigenous Cultures](#). Kathleen Haughney, *Florida State University News*. September 5, 2018.
- [Not Food Scraps After All: Turtle Shells as Native American Musical Instruments](#). Amy Beringer Smith, *NewHistorian*. September 8, 2018.
- [Turtle Shells Served as Symbolic Musical Instruments for Indigenous Cultures](#). Kathleen Haughney, *Phys.org*. September 5, 2018.

FIGURES CREATED FOR PUBLICATION (when not listed as an author)

- 2019 Maps 1.3 and 8.1 to 8.3, and Figure 2.2 produced by Andrew Gillreath-Brown. Maps 1.1, 1.2, and 9.1 produced by Aaron Deter-Wolf and Andrew Gillreath-Brown. In [*The Cumberland River Archaic of Middle Tennessee*](#), edited by Tanya M. Peres and Aaron Deter-Wolf. University of Florida Press, Gainesville.
- 2016 Figure 1.1 produced by Andrew Brown. In Wolverton, Steve, Lisa A. Nagaoka, and Torben C. Rick. [*Applied Zooarchaeology: Five Case Studies*](#). Eliot Werner Publications, Clinton Corners, New York.

RESEARCH AND FIELD EXPERIENCE**

- Washington State University**, Pullman, Washington
May 2019 – Present Research Associate (no funding for this position) for [National Science Foundation RIDIR Grant](#). Project: [Collaborative Research: Developing and Deploying SKOPE: Synthesizing Knowledge of Past Environments](#). Principal Investigator: Dr. Tim Kohler
Continuing to work on the SKOPE project, including ongoing meetings.
Continuing to develop and evaluate paleoclimatic models, analyze large environmental and archaeological datasets, and help to design and develop cyber-infrastructure.
- Washington State University**, Pullman, Washington
August 2016 – May 2019 Research Assistant for [National Science Foundation RIDIR Grant](#). Project: [Collaborative Research: Developing and Deploying SKOPE: Synthesizing Knowledge of Past Environments](#). Principal Investigator: Dr. Tim Kohler
Developing and evaluating paleoclimatic models. Exploring the use of pollen data to produce low-frequency temperature reconstructions and modulate high-frequency climate data with low-frequency climate data. Analyzing large environmental and archaeological datasets and helping to design and develop cyber-infrastructure.
- Washington State University**, Pullman, Washington
August 2017 – Dec 2018 Research Assistant for National Science Foundation Archaeology Grant (no. 1460125). Project: [Collaborative Research: Modeling Crop Failure Potential in Late Pueblo Mesa Verde Villages](#). Principal Investigator: Dr. Tim Kohler
Developing a geospatial soil moisture model to predict prehistoric agricultural field locations.
- University of North Texas**, Denton, Texas
May – September 2016 Research Assistant for National Science Foundation Archaeology Grant (no. 1460122). Project: [Collaborative Research: Modeling Crop Failure Potential in Late Pueblo Mesa Verde Villages](#). Principal Investigator: Dr. Lisa Nagaoka
Developing a geospatial soil moisture model to predict prehistoric agricultural field locations. Remote sensing (drone), leaf area index, and soil moisture fieldwork at Crow Canyon Archaeological Center and nearby sites.
- University of North Texas**, Denton, Texas
May – September 2015 Research Assistant for National Science Foundation Archaeology Grant (no. 1460122). Project: [Collaborative Research: Modeling Crop Failure Potential in Late Pueblo Mesa Verde Villages](#). Principal Investigator: Dr. Lisa Nagaoka
Extensive literature review on dendrochronology, climate, and drought in relation to prehistoric agriculture; remote sensing (drone), leaf area index, and soil moisture fieldwork; assisted with experimental gardens on Crow Canyon Archaeological Center's campus.

TRC Companies, Inc., Nashville, Tennessee

June 2013 – August 2014 Archaeological Crew Chief and Senior Field/Lab Technician (full time)
25 Phase I Surveys; 4 Phase III Mitigations and Excavations; and 6
Monitoring/Delineations. Directed by Dr. Larry McKee, Hannah Guidry, Kelly
Hockersmith, and Jared Barrett
As a crew chief, I determined survey and excavation strategies, managed
crews, conducted background research, compiled data, handled GPS and GIS
data in the field, identified artifacts/features, and mapped sites.

**Texas A&M University, Center for the Study of the First Americans, College Station,
Texas**

July 2015 Archaeologist Field Technician
Excavated at the Debra L. Friedkin Site (Salado, Texas); Directed by Dr. Michael
Waters
July 2013 Archaeologist Field Technician
Excavated at the Phil Stratton Site (Kentucky); Directed by Dr. Jesse Tune
June – August 2012 Archaeologist Field Technician
Excavated at the Coats-Hines site (Franklin, Tennessee); Directed by Dr. Michael
Waters and Dr. Jesse Tune

New South Associates, Inc., Stone Mountain, Georgia

April – June 2013 Field Technician
1 Phase I Survey; 1 Phase III Excavation; and 1 Geophysics Survey. Directed by
Ryan Robinson and Shawn Patch

Cultural Resource Analysts, Inc., Evansville, Indiana

March – June 2013 Archaeological Field Technician II
1 Phase I Survey; 3 Phase II Surveys; and 1 Phase II/III Excavation. Directed by
Kevin Head and Richard Herndon

Michael Baker Jr., Inc., Moon Township, Pennsylvania

August – Sept. 2012 Cultural Resources Associate I - Archaeological Field Technician
1 Phase I Survey. Directed by Ryan Robinson

Middle Tennessee State University, Murfreesboro, Tennessee

May 2012 Field Crew Volunteer
1 excavation at White's Creek/USN Site (40DV7); Directed by Dr. Tanya Peres
June 2011 Field Crew Volunteer
Excavations at the Castalian Springs site (40SU14); Directed by Dr. Kevin Smith
June – July 2010 Field Crew, MTSU Field School
Excavations at the Castalian Springs site (40SU14); Directed by Dr. Kevin Smith

Tel-Aviv University, Beth-Shemesh, Israel

June – July 2008 Field Crew
Excavations at Tel Beth-Shemesh Site – Late Bronze Age portion of the site.
Directed by Dr. Zvi Lederman and Dr. Shlomo Bunimovitz

LAB EXPERIENCE**

Washington State University, Pullman, Washington

May – August 2021 Museum Technician and Supervisor, Museum of Anthropology
Led/supervised a team of four to evaluate and fix errors within the collection,
including artifact bags and tags, coding sheets, and database, along with

documenting and rehabbing the Strawberry Island collection. We focused on rehabbing 30 boxes in the collection. to the Strawberry Island collection. I led a team of four conducting the work.

- May – August 2019 Museum Technician, Museum of Anthropology
Worked on assessing the Strawberry Island collection and fixing errors within the collection, coding sheets, and database. Three hundred twenty-five boxes were brought from the WSU Museum of Anthropology warehouse to the Museum of Anthropology in College Hall to do a full assessment and start work on updating the collection.
- May – August 2018 Museum Technician, Museum of Anthropology
Worked on creating a digital database and geospatial database of the Museum of Anthropology Database.
- May 2017– April 2018 Museum Technician, Museum of Anthropology
Worked on the Turkey Pen Grant Project (“Supporting Scientific Studies of Archaeological Collections from Cedar Mesa Canyons”, Bureau of Land Management Grant 1511 [UT- 952]), predominantly during May to August 2017. Undertook the task of bringing together all the Turkey Pen midden samples stored at WSU, relabeling them, rebagging if necessary, and creating a complete inventory. Continued work on documenting the history of use of the Turkey Pen materials as time permitted during the subsequent 2017–2018 academic year.
- August – December 2016 Paleoethnobotanical analysis of remains from the Harrapa site located in modern day Pakistan – analysis conducted at Washington State University for the graduate course, Paleoethnobotany. Directed by Dr. Jade d’Alpoim Guedes
- August 2014 – 2016 **Crow Canyon Archaeological Center, Cortez, Colorado**
Zooarchaeological analysis of faunal remains from the Monsoon House site – analysis conducted at the University of North Texas, Denton, Texas. Directed by Dr. Steve Wolverton
- July 2013 – August 2014 **TRC, Inc., Nashville, Tennessee**
Senior Lab Technician
Artifact analysis (historic and prehistoric); artifact cataloguing and curation; artifact and project research; management of other technicians; GIS; assisting with project and report maps; and contributing to site/technical reports and management summaries (e.g., research, writing, editing, and mapping). Directed by Dr. Larry McKee and Amanda Garvin.
- February – June 2012 **Tennessee State Division of Archaeology, Nashville, Tennessee**
Volunteer lab technician
Artifact analysis and cataloguing; assisting with site inspections; contributing to site and technical reports; and analyzed and interpreted data. Directed by Aaron Deter-Wolf and Mike Moore (state archaeologist)
- February – April 2012 **Middle Tennessee State University, Murfreesboro, Tennessee**
Lab technician
Zooarchaeological analysis of an assemblage from the Castalian Springs site, Tennessee. Directed by Dr. Tanya Peres

May – August 2011	<p>Researcher for URECA Grant</p> <p>Zooarchaeological analysis of turtle remains from the Castalian Springs and Fewkes sites, Tennessee with a report to URECA. Directed by Dr. Tanya Peres</p>
Fall 2010	<p>Zooarchaeological analysis (part of Zooarchaeology course)</p> <p>Analysis of an assemblage from the Fewkes site; report of the analysis. Directed by Dr. Tanya Peres</p>
March 2012	<p>Independent researcher, McClung Museum, University of Tennessee, Knoxville, Tennessee</p> <p>Zooarchaeological analysis and catalogue descriptions of Mississippian Period turtle shell rattle specimens</p>

MUSEUM EXHIBITIONS

2019 *Tattooing in the Southwestern United States*. Museum of Anthropology, Washington State University, Pullman, WA.

RESEARCH AND TRAVEL GRANTS

2020 Arizona Archeological and Historical Society Travel Award, \$500

2019 Graduate and Professional Student Association Travel Grant, Washington State University, \$554

2019 Arizona Archeological and Historical Society Travel Award, \$500
Awarded for the Society for American Archaeology Annual Meeting 2019, Albuquerque, NM

2019 Society of Ethnobiology Conference Waiver, Society of Ethnobiology, \$55

2018 Graduate and Professional Student Association Travel Grant, Washington State University, \$635

2018 Society of Ethnobiology Travel Award, Society of Ethnobiology, \$585

2017 Graduate and Professional Student Association Travel Grant, Washington State University, \$261

2017 Graduate and Professional Student Association Travel Grant, Washington State University, \$100

2017 Arizona Archeological and Historical Society Travel Award, \$250
Awarded for the Society for American Archaeology Annual Meeting 2017, Vancouver, BC

2016 Department of Geography and the Environment at the University of North Texas, Departmental Conference Support, \$218
Awarded for the Annual Meeting of the Society for American Archaeology, Orlando, Florida

2016 College of Arts and Sciences at the University of North Texas, Graduate Student Travel Support Grant, \$300
Awarded for the Annual Meeting of the Southeastern Archaeological Conference, Nashville, Tennessee

2015 Toulouse Graduate School at the University of North Texas, Graduate Student Travel Grant (and Geography department with additional funding), \$600
Awarded for the Society for American Archaeology Annual Meeting 2015, San Francisco, California

TEACHING

Courses

2021–2022	<p>Instructor, Washington State University, Pullman, Washington</p> <p>Fall (2021)</p> <p>Instructor, <i>ANTH 101: Introduction to Anthropology</i>, 3 credit, ~80 students</p>
2019–2020	<p>Instructor, Washington State University, Pullman, Washington</p> <p>Fall and Spring (2019–2020)</p> <p>Instructor, <i>ANTH 101: Introduction to Anthropology</i>, 3 credit, ~50–95 students</p> <p>Summer (2020)</p> <p>Instructor, <i>ANTH 101: Introduction to Anthropology</i> (Online due to COVID-19 pandemic), 3 credit, ~15 students</p>

- 2014–2016 **Instructor**, University of North Texas, Denton, Texas
 Fall and Spring Graduate Teaching Assistant (Instructor), *ARCH 2800: Archaeological Science Lab*, 1 credit, 100 students per semester
 Summer 2015 Graduate Teaching Assistant (Instructor), *GEOL 1610: Introduction to Physical Geology Lab*, 1 credit, 25 students per semester
- 2008–2009 **Lexington High School**, Lexington, Tennessee
 Substitute instructor in Mathematics, Chemistry, Art, English, Physics and Engineering, and History

Workshops and Symposiums

- October 2019 Data Carpentry Workshop Helper, Washington State University. October 10–11, 2019.
<https://mbrousil.github.io/2019-10-10-wsu/>.
- May 2019 Overview of the "Washington State University Buildings and Landscapes" Project and My Perspective of Using Scalar with Andrew Gillreath-Brown. May 15, 2019.
<https://github.com/PalouseDH/symposium/blob/master/2019/day-3.md>
- March 2019 Using Scalar for History and Perceptions of Place with Andrew Gillreath-Brown. March 5, 2019.
<https://cdsc.libraries.wsu.edu/workshop/2019-cdsc-spring-symposium-workshops-using-scalar-for-history-and-perceptions-of-place-with-andrew-gillreath-brown/>
- August 2017 Software Carpentry Workshop Helper, Washington State University. August 16–17, 2017.
<https://stephlabou.github.io/2017-08-16-wsu/>.

ARCHAEOLOGICAL SERVICE

- April 2017 – Present [State Government Affairs Network State Representative](#), Tennessee Council for Professional Archaeology Representative, Society for American Archaeology.
- April 2017 – Present Legislative Committee, Tennessee Council for Professional Archaeology.
- Jan 2014 – Jan 2018 Executive Board Member for the Tennessee Council for Professional Archaeology
 Review grant applications and proposals; assist with House Bill proposals; presenting research to the public; attending public archaeology events; assisting with the organization of TCPA sponsored events (e.g., SEAC 2015); Nominations Committee 2016–2017.
- March 2017 Tennessee Council for Professional Archaeology Representative at the Council of Councils Meeting. Meeting was held in conjunction with the Society for American Archaeology Annual Meeting in Vancouver, BC, Canada on March 30, 2017.
- 2016–2018 Committee Chair for the Nominations Committee. Tennessee Council for Professional Archaeology.
- June – July 2010 Assisted with teaching and instructing field volunteers at the MTSU Archaeological Field School.

ACADEMIC SERVICE

- April 2021 – Present Secretary, Department of Anthropology, Anthropology Graduate Organization (AGO), Washington State University
- February 2018 – Present Historic Preservation Committee, Graduate Student Representative for Graduate and Professional Student Association (GPSA), Washington State University
- April 2017 – August 2020 Webmaster, Department of Anthropology, Anthropology Graduate Organization (AGO), Washington State University
- July 2019 – July 2020 Director of Outreach, Western Region of the National Association of Graduate-Professional Students
- May 2019 – May 2020 Director of Communications, Graduate and Professional Student Association (GPSA), Washington State University

August 2019 – May 2020	Research and Arts Committee, Graduate Student Representative for Graduate and Professional Student Association (GPSA), Washington State University
March 26, 2020	Judge for the Graduate Student Representative for Graduate and Professional Student Association (GPSA) Research Exposition Poster Scholarship Competition, Washington State University
April 25, 2019	WSU's Buildings and Landscapes: The Digital Gateway to our Shared History. Presentation at the Washington State University College of Arts and Sciences Golden and Diamond Reunion Lunch
March 22–24, 2019	Attended the Western Regional Conference of the National Association of Graduate-Professional Students with the WSU Graduate and Professional Student Association, Portland, Oregon
January 27–28, 2019	Group Leader, "Coug Day at the Capitol" advocacy with state representatives in Olympia, WA with the Graduate and Professional Student Association (GPSA), Washington State University
February 2018 – Present	Historic Preservation Committee, Graduate Student Representative for Graduate and Professional Student Association (GPSA), Washington State University
August 2018 – May 2019	Legislative Affairs Committee, Graduate and Professional Student Association (GPSA), Washington State University
June 2018	Chair and Moderator of <i>Agricultural Practices</i> , 2018 Society for Economic Botany and Society of Ethnobiology Conference, June 3–7, 2018, Madison, WI
January 21–22, 2018	"Coug Day at the Capitol" advocacy with state representatives in Olympia, WA with the Graduate and Professional Student Association (GPSA), Washington State University
April 2017 – August 2019	Treasurer, Department of Anthropology, Anthropology Graduate Organization (AGO), Washington State University
August 2017 – May 2019	Senator, Department of Anthropology, Graduate and Professional Student Association (GPSA), Washington State University
August 2017 – 2018	Travel Grants Committee, Graduate and Professional Student Association (GPSA), Washington State University
April 2017	Chair and Moderator of Session 15, <i>Archaeology</i> , 70 th Annual Northwest Anthropological Conference, Spokane, Washington, April 12–15, 2017
Spring 2017	Chair, Lipe Visiting Scholar Committee, Department of Anthropology, Washington State University, Pullman WA.
2017	Edited Issue, <i>Empirical and Model-based Agricultural Studies in Archaeology</i> Guest editor, <i>Journal of Ethnobiology</i>
March 2016	Organized Conference Session, <i>First Farmers, First Farms: Landscape Ecology of the Early Neolithic</i> Co-organizer and Moderator, Society of Ethnobiology, 39 th Annual Conference, Tucson, Arizona
January – August 2016	Secretary for the Gamma Theta Upsilon Alpha Alpha Chapter

RECENT VOLUNTEER EXPERIENCE

March 24, 2018	Kids' Science and Engineering Day , Society for Women's Engineers, Washington State University. Archaeology activities for kids approximately Kindergarten–5 th grade. Pullman, WA.
March 22, 2018	Sunnyside Elementary School , Volunteer Science Fair Judge for Grades 1 st through 5 th . Pullman, WA.
March 21, 2018	Franklin Elementary School , Franklin Science Fair Reviewing for 5 th Grade. Pullman, WA.

October 30, 2017	Spooky Scary Science , Moscow Public Library, Moscow, Idaho. Idaho Commission for Libraries, Fun with Math and Science Program, with funding from The Institute of Museum and Library Services.
August 17, 2017	WSU Week of Welcome College of Arts and Sciences College Kick-Off , Anthropology Museum, hands-on introduction to the four fields of Anthropology. Pullman, WA.
July 19, 2017	Washington State University Native American Camp , Atlatl activities and Anthropology introduction and tour of museum and artifacts. Pullman, WA.
April 28, 2017	Franklin Elementary School , Anthropology Kids Day for 1 st Grade Classes. Pullman, WA.
March 23, 2017	Sunnyside Elementary School , Volunteer Science Fair Judge for Grades 1 st through 5 th . Pullman, WA.

SERVICE AND VOLUNTEER OUTREACH AND PRESS

- 2021 WSU Stone Arch Mini History Documentary. Jenna Nash, *Journalism And Media Production (COMJOUR)* 390. March 21, 2021. <https://youtu.be/CHh1OTZguLo>
- 2021 Normalize Tattoos in the Workplace. Portia Simmons, *Daily Evergreen*. January 21, 2021. <https://dailyevergreen.com/97132/opinion/opinion-normalize-tattoos-in-the-workplace/>
- 2019 GPSA Lobbies for Health Care, Financial Support. Angelica Relente, *Daily Evergreen*. February 4, 2019. <https://dailyevergreen.com/47531/news/gpsa-lobbies-for-health-care-financial-support/>
- 2017 Sun-soaked Crowd Celebrates Science. Chelsea Embree, *The Lewiston Tribune*. April 23, 2017. https://lmtribune.com/northwest/sun-soaked-crowd-celebrates-science/article_fb995578-cdee-5272-8e7b-14db11d24268.html
- 2009 Does America Really Need a Black History Month? Martina Ballard, *The Daily Helmsman*. February 11, 2009. http://www.dailyhelmsman.com/archives/does-america-really-need-a-black-history-month/article_4e180233-26e4-5365-87a5-8c5fce0c859b.html

SCIENTIFIC SCHOOLS

- 2019 Santa Fe Institute Complex Systems Summer School. Santa Fe, NM. [https://wiki.santafe.edu/index.php/Complex_Systems_Summer_School_2019_\(CSSS\)](https://wiki.santafe.edu/index.php/Complex_Systems_Summer_School_2019_(CSSS))

COMPUTER EXPERIENCE

Statistical Packages: R, SPSS

Languages: R/S, Python, C++, Java

Applications: GRASS GIS, ArcGIS, QGIS, Adobe Illustrator/Photoshop, AutoCAD, ArcGIS collector, GPS, NetLogo

Platforms: Microsoft Azure

Databases/Geostacks: Microsoft Access, PostgreSQL/PostGIS, OpenGeo Suite – Boundless, SQLite Manager, OpenRefine, Paradox

Hydrological Processing: Decagon soil moisture sensors, Leaf Area Index

Operating Systems: Mac OS X, Windows, Unix/Linux

Digital Image Processing: ERDAS/Imagine

Digital Publishing: Scalar, Omeka

Other: git, GitHub

Other Skills: Microdrone (model: md4-1000; software: mdCockpit and mdBlackBox), Ground Penetrating Radar (GSSI), GPS (Trimble)

RELEVANT GRADUATE COURSEWORK

Surface Hydrology

Soils Geomorphology

Advanced Zooarchaeology

Intermediate GIS

Introduction to GIS Programming

Statistical Research Methods in Geography

Introduction to Remote Sensing
Advanced GIS Programming
Paleoethnobotany
Prehistory of the Southwest
Models and Simulation
Art History Methods and Practice

Archaeological Method and Theory
Mesoamerican Archaeology
Fundamentals of Cultural Anthropology
Human Evolution
Stable Isotope Analysis in Anthropology
Special Topic in Electron Microscopy

RELEVANT ARCHAEOLOGY UNDERGRADUATE COURSEWORK

Archaeological Field School (Castalian Springs, TN)
Zooarchaeology with lab
Environmental Archaeology
World Prehistory

Human Origins
Archaeological Methods with Lab
Independent Research
Senior Thesis

RELEVANT COMPUTER AND MATHEMATICS UNDERGRADUATE COURSEWORK

Java (Audited)
Programming C++
Modern Graphics for Engineers (AutoCAD)
Program Design/Analysis
Computers/Programming II (C++)

Microcomputer Systems
Calculus 1, 2, and 3
Statistics I and II
Discrete Mathematics
Differential Equations

WORKSHOPS AND ADDITIONAL TRAINING

[Palouse Digital Scholarship Symposium](#). Hosted by the Center for Digital Scholarship and Curation (CDSC) at Washington State University and Center for Digital Inquiry and Learning (CDIL) at the University of Idaho. May 11–17, 2018.

Archaeologies of Landscape; 2-hour online seminar. Ruth Van Dyke. Society for American Archaeology. Certificate earned on May 2, 2018.

Ancient DNA 101: What you need to know to Establish a Successful Project; 2-hour online seminar. Christina Warinner and Courtney Hofman. Society for American Archaeology. Certificate earned on December 12, 2017.

Introduction to Complexity. Melanie Mitchell, Santa Fe Institute. Certificate earned in June 2017.

Using R for Archaeological Data Analysis, Mapping, and Visualization Workshop at the Society for American Archaeology Conference, April 2, 2017, Vancouver, British Columbia, Canada.

Software Carpentry Workshop. Center for Environmental Research, Education, and Outreach (CEREO), Washington State University. April 6–7, 2017. Unix shell, R, and Git.

Data Carpentry Workshop. Center for Environmental Research, Education, and Outreach (CEREO), Washington State University. March 20–21, 2017. Data organization, OpenRefine, R, and Databases and SQL.

R Programming by Johns Hopkins University on Coursera. Certificate with distinction earned on August 29, 2015.

ESRI ArcGIS Web Courses (8 Courses) and Training Seminars (7 Seminars). Completed in Fall 2013.

CURRENT PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

Society for American Archaeology (2012, 2014 – present)
Register of Professional Archaeologists (RPA) (2017 – present)
CAA International (2019 – present)
Society of Ethnobiology (2012, 2015 – present)
Arizona Archaeological and Historical Society (Account# 1380) (2017 – present)
Tennessee Council for Professional Archaeology (2011 – present)
Gamma Theta Upsilon International Honor Society (2015 – present; GPA: 4.0)
PAGES (Past Global Changes) (2018 – present)

The Society of Black Archaeologists (2020 – present)

PAST PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

American Association for the Advancement of Science (AAAS) (2018–2019)

Society for Archaeological Sciences (2018–2019)

Southeastern Archaeological Conference (2011–2016)

Southern Anthropological Society (2012)

REFERENCES

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***Full list of field and lab projects are available upon request.*