

Danielle A. Macdonald, PhD

Department of Anthropology & Sociology, The University of Tulsa
Harwell Hall, 800 South Tucker Drive, Tulsa OK, 74104
danielle-macdonald@utulsa.edu

ACADEMIC POSITIONS

- 2021-Present **Associate Professor:** Department of Anthropology & Sociology
The University of Tulsa
- 2015-2020 **Assistant Professor:** Department of Anthropology
The University of Tulsa

ADMINISTRATIVE APPOINTMENTS

- 2025-Present **Vice Provost for Faculty Affairs and Academic Initiatives**
The University of Tulsa
- 2024-2025 **Senior Associate Dean for Faculty and Research**
Kendall College of Arts & Sciences
The University of Tulsa
- 2024-Present **Co-Editor-in-Chief**
Journal of Archaeological Science: Reports
Elsevier
- 2022-2025 **Liaison for Afghan Refugees**
The University of Tulsa
- 2021-2024 **Director of the Henneke Center for Academic Fulfilment**
The University of Tulsa

PREVIOUS POSITIONS

- 2015 **Postdoctoral Research Assistant:** University of Bradford
Project: *Fragmented Heritage*; Funded through the Arts and Humanities
Research Council (AH/L00688X/1)
- 2014 **Postdoctoral Fellow:** Fyssen Foundation Postdoctoral Fellowship at Cultures et
Environnements, Préhistoire, Antiquité, Moyen Âge (CEPAM), Centre National
de la Recherche Scientifique (CNRS)
Project: *Aggregation and Interaction: Evaluating Social Activities during the
Terminal Pleistocene*; Sponsor: Dr. Sylvie Beyries (CEPAM-CNRS)

ACADEMIC AFFILIATIONS

- 2013-Present **Research Associate:** The Archaeology Centre, University of Toronto

EDUCATION

- 2007-2013 **PhD Anthropology** (Archaeology): University of Toronto
Dissertation: *Interpreting Variability through Multiple Methodologies: The Interplay of Form and Function in Epipalaeolithic Microliths*
Examiners: M. Chazan (chair), E.B. Banning, C. Knappett, and O. Bar-Yosef
- 2005-2007 **MA Anthropology** (Archaeology): University of Victoria
Thesis: *Debitage Studies of 'Uyun al-Hammâm: The Reconstruction of Epipalaeolithic Reduction Sequences*
Supervisor: A. Nowell
- 2000-2005 **Honors BA Anthropology** (Archaeology): University of Toronto

RESEARCH INTERESTS

Lithic analysis; material culture studies; microwear analysis; surface metrology; tribology; Prehistoric archaeology; Epipalaeolithic; origins of agriculture; Southwest Asia prehistory; Mediterranean archaeology; *chaîne opératoire*.

CURRENT RESEARCH PROJECTS

Kharaneh IV Archaeological Project

Principal Investigator (with Lisa Maher, UC Berkeley)

Ancient Seafaring Explorers of Cyprus Project (ASEC)

Principal Investigator (with Lisa Maher, UC Berkeley; Alan Simmons, University of Nevada, Las Vegas; and Sarah Stewart, University of Toronto).

AWARDS AND HONORS

- 2024 Faculty Diversity Equity and Inclusion Changemaker Award, The University of Tulsa

EXTERNAL RESEARCH GRANTS, PRINCIPAL AND CO- PRINCIPAL INVESTIGATOR

- 2024 Department of State, Supporting Higher Education and Refugee Resettlement (SHERR) Innovation Incentive Grants (\$40,992). *Building Belonging: Cultural Orientation & Integration through Service Learning*. Principal Investigator.
- 2022-2025 National Science Foundation, Major Research Instrumentation Grant (2216138, \$137,446). *Acquisition of a Lightweight 7-Axis Robotic Manipulator with Force Sensing for Archaeological and Engineering Research and Education*. Co-Principal Investigator (PI Joshua Shultz, Co-PI Steven Tipton).
- 2018-2023 National Endowment for the Humanities, Collaborative Research Grant, (RZ-255635-17, \$200,000). *Archaeological Investigation of Hunter-Gatherer Aggregation and Movement in Prehistoric Jordan*. Co-Principal Investigator (PI Lisa Maher).

2017-2023 National Science Foundation, Senior Archaeological Research Grant (1727357, \$252,076). *Spatial Utilization and Social Interaction in Non-Complex Societies* Principal Investigator (Co-PI Lisa Maher).

EXTERNAL RESEARCH GRANTS, COLLABORATOR

2020-2023 Social Science and Humanities Research Council of Canada, Insight Grant (435-2020-0500, \$224,875). *Large and Small Things Forgotten: Scale and Visibility in Epipalaeolithic Cyprus and Neolithic Jordan*. Collaborator (PIs E.B. Banning and Sarah Stewart, University of Toronto)

2015-2018 Arts and Humanities Research Council Large Grant (AH/L00688X/1, £1,854,691) *'Fragmented Heritage' From the Kilometre to the Nanometre: Automated 3D Technology to Revolutionize Landscape, Site, and Artefact Analyses*. International Co-Investigator (PI Randolph Donahue, University of Bradford)

INTERNAL RESEARCH GRANTS AND FELLOWSHIPS

2026 Social Science Interest Group Grant, The University of Tulsa (\$5,500)
 2025 Faculty Large Research Grant (Fall), The University of Tulsa (\$10,000)
 2024 Faculty Research Grant (Spring), The University of Tulsa (\$3,500)
 2022 Faculty Travel Grant (Fall), The University of Tulsa (\$800)
 2022 Faculty Travel Grant (Spring), The University of Tulsa (\$1,000)
 2021 Faculty Research Grant (Fall), The University of Tulsa (\$3,780)
 2020 Faculty Research Grant (Spring), The University of Tulsa (\$3,330)
 2019 Faculty Travel Grant (Fall), The University of Tulsa (\$350)
 2018 Faculty Research Grant (Fall), The University of Tulsa (\$3,880)
 2018 Faculty Travel Grant (Fall), The University of Tulsa (\$1,500)
 2018 Faculty Development Summer Fellowship, The University of Tulsa (\$6,100)
 2018 Faculty Travel Grant (Spring), The University of Tulsa (\$1,500)
 2017 Faculty Research Grant, The University of Tulsa (\$1,900)
 2017 Faculty Development Summer Fellowship, The University of Tulsa (\$6,100)
 2016 Faculty Research Grant, The University of Tulsa (\$2,400)
 2016 Internationalization Grant, The University of Tulsa (\$5,000)
 2016 Faculty Development Summer Fellowship, The University of Tulsa (\$6,100)
 2016 Faculty Research Grant, The University of Tulsa (\$1,000)
 2015 Faculty Research Grant, The University of Tulsa (\$1,000)
 2012 Sir Joseph Flavelle Fellowship, University of Toronto (\$3,000)
 2012 School of Graduate Studies Travel Grant, University of Toronto (\$2,065)
 2012 Department of Anthropology Conference Travel Grant, University of Toronto (\$1,300)
 2011-2012 School of Graduate Studies Doctoral Completion Award, University of Toronto (\$18,000)
 2011 General Motors Women in Science and Mathematics Award, University of Toronto (\$3,800)
 2011 School of Graduate Studies Travel Grant, University of Toronto (\$900)
 2011 Department of Anthropology Conference Travel Grant, University of Toronto (\$1,000)

2011	School of Graduate Studies Conference Grant, University of Toronto (\$250)
2010	Department of Anthropology Conference Travel Grant, University of Toronto (\$1,000)
2010	Graduate Student Union Conference Grant (for <i>Between a Rock and a Hard Place: Graduate Students' Lithic Symposium</i>), University of Toronto (\$500)
2009	Arts and Science Dean's Student Initiative Fund (for <i>Between a Rock and a Hard Place: Graduate Students' Lithic Symposium</i>), University of Toronto (\$1,000)
2009	The William John Witemberg Scholarship, University of Toronto (\$3,500)
2009	The Andrea and Charles Bronfman Student Award in Israeli Studies, University of Toronto (\$4,150)
2009	Dissertation Research Grant, University of Toronto (\$1,000)
2008	Pilot Research Grant, University of Toronto (\$4,000)
2008	American Institute of Archaeology Student Travel Fellowship (\$125)
2007-2011	University of Toronto Fellowship (\$88,000)
2007	Arts and Science Graduate Admissions Award (\$750)
2005-2006	Graduate Teaching Fellowship, University of Victoria (\$1,500)

BOOKS

Patton, A. Katherine, **Danielle A. Macdonald**, Michael Chazan, editors (2025). *Learning Archaeology: A Problem-Based Approach*. Routledge Books.

Andrews, Brian N. and **Danielle A. Macdonald**, editors (2022). *More Than Shelter from the Storm: Hunter-Gatherer Houses and the Built Environment*. University Press of Florida.

JOURNAL ARTICLES

In press and in review

Macdonald, Danielle A. and Lisa A. Maher (*in review*). Identifying artistic traditions in the Early and Middle Epipalaeolithic: Analysis of stone plaquettes from Kharaneh IV, Jordan. *Journal of Paleolithic Archaeology*.

Pargeter, Justin, Alastair Key, Susan Botha, Jan de Vynck, Patryk Mietliński, John K. Murray, **Danielle A. Macdonald**, W. James Stemp, Michał Wieczorowski, Giuseppe Castelli, Tomasz Bartkowiak (*in review*). Heat treatment technique and wood fuel density impact the geometric sharpness (edge curvature) of silcrete stone tools. *Journal of Archaeological Science: Reports*.

2026

Macdonald, Danielle A. (2026). Traces We Leave Behind: The Past and Future of Lithic Use-Wear Analysis. *Journal of Archaeological Science*, 185, 106447. <https://doi.org/10.1016/j.jas.2025.106447>

Macdonald, Danielle A., W. James Stemp, and Adrian Evans (2026). Quantification of Post-depositional Surface Alteration on Chipped Stone Tools: A Review. *Surface Topography: Metrology and Properties*. 14, 013002. <https://doi.org/10.1088/2051-672X/ae2d7c>

Clark, Amy and **Danielle A. Macdonald** (2026). Assessing Gender Demographics of Paleolithic Researchers in North America. *American Antiquity*. 91, 1. 135-148.
<https://doi.org/10.1017/aaq.2025.10110>

2025

Macdonald, Danielle A., Naomi L. Martisius, W. James Stemp, Christopher A. Brown, Logan Guthrie, and Matthew A. Gleason (2025). Quantification of Use-wear on Experimental Shell Tools: First Results using Focus Variation Microscopy, Surface Roughness, and Multiscale Geometric Analyses. *Journal of Archaeological Science: Reports*, 62, 104986.
<https://doi.org/10.1016/j.jasrep.2025.104986>

Eren, Metin, Stephen Lycett, Michelle Bebbler, Alastair Key, Briggs Buchanan, Joseph Benson, Rebecca Biermann Gurbuz, Adela Cebeiro, Emma Finestone, Roman Garba, Anne Grunow, C. Owen Lovejoy, **Danielle A. Macdonald**, Erica Maletic, Logan Miller, Joseph Ortiz, Jonathan Paige, Justin Pargeter, Tomos Proffitt, Mary Ann Raghanti, Teal Riley, Jeffrey I. Rose, David M. Singer, Robert Walker (2025). An origin of hominin stone knapping via the emulation of mother nature. *Archaeometry*, 1-23. <https://doi.org/10.1111/arc.13075>

2024

Nowell, April and **Danielle A. Macdonald** (2024). Culturing The Body in the Context of the Neolithisation of the Levant. *Journal of Archaeological Science: Reports*. 55, 104478.
<https://doi.org/10.1016/j.jasrep.2024.104478>

Alastair Key, Tomasz Bartkowiak, **Danielle A. Macdonald**, Patryk Mietlinski, Bartosz Gapinski, Ignacio de la Torre and W. James Stemp (2024). Quantifying Edge Sharpness on Stone Flakes: Comparing Mechanical and Micro-Geometric Definitions Across Multiple Raw Materials from Olduvai Gorge (Tanzania). *Journal of Archaeological Method and Theory*. 31, 51-74
<https://doi.org/10.1007/s10816-022-09596-0>

2023

Buchanan, Briggs, James Blinkhorn, Huw Groucutt, Marcus Hamilton, Metin Erin, **Danielle A. Macdonald**, Steven Kuhn (2023). Geometric morphometric analyses of Levallois points from the Levantine Middle Paleolithic do not support functional specialization. *Lithic Technology*. 1-15.
<http://doi:10.1080/01977261.2023.2208930>

Williamson, Ronald F., Peter L. Storck, **Danielle A. Macdonald**, Cam Walker, John L. Fagan, Andrea Carnevale, Andrew Stewart, Peter H. von Bitter, and Robert I. MacDonald. (2023). New insights into early Paleoindian (Gainey) associations with proboscideans and canids in the Niagara peninsula, southern Ontario, Canada. *Journal of Archaeological Science: Reports*. 47, 103785. <http://doi.org/10.1016/j.jasrep.2022.103785>

2022

Macdonald, Danielle A., and Lisa A. Maher (2022). Leaving Home: Technological and Landscape Knowledge as Resilience at Pre-Holocene Kharaneh IV. *Holocene*. 32(12):1450-1461.
<https://doi.org/10.1177/09596836221121784>

Macdonald, Danielle A., Tomasz Bartkowiak, Michał Mendak, W. James Stemp, Alastair J.M. Key, Ignacio de la Torre, and Michał Wieczorowski (2022). Revisiting lithic edge characterization with microCT: Multiscale study of edge curvature, re-entrant features, and profile geometry on Olduvai Gorge quartzite flakes. *Archaeological and Anthropological Sciences*. 14:33. <https://doi.org/10.1007/s12520-022-01504-7>

2021

Maher, Lisa A., **Danielle A. Macdonald**, Emma Pomeroy, and Jay T. Stock (2021). Life, death, and the destruction of architecture: hunter-gatherer mortuary behaviors in prehistoric Jordan. *Journal of Anthropological Archaeology*. 61 101262. <https://doi.org/10.1016/j.jaa.2020.101262>

2020

Macdonald, Danielle A., Tomasz Bartkowiak, and W. James Stemp (2020). 3D Multiscale Curvature Analysis of Tool Edges as an Indicator of Cereal Harvesting Intensity. *Journal of Archaeological Science: Reports*. 102523. <https://doi.org/10.1016/j.jasrep.2020.102523>

Macdonald, Danielle A., Kyleigh Royal, and Briggs Buchanan (2020). Evaluating the effects of parallax in archaeological geometric morphometric analyses. *Archaeological and Anthropological Sciences*. 12:149. <https://doi.org/10.1007/s12520-020-01111-4>

2019

Macdonald, Danielle A., Liye Xie, and Tiziana Gallo (2019). Here's the Dirt: Applications of Confocal Microscopy for Experimental Ground Stone Earth Working Tools. *Journal of Archaeological Science: Reports*. 26, 1-9.

Xie, Liye, Tiziana Gallo, **Danielle A. Macdonald** (2019). Microwear Analysis on Ground Stone Earth-Working Implements: A New Angle to Investigate Ancient Agricultural Practices. *Journal of Archaeological Science: Reports*. 25, 351-369.

Spyrou, Anna, Lisa A. Maher, Louise Martin, **Danielle A. Macdonald**, Andrew Garrard (2019). Meat Outside the Freezer: Drying, Smoking, Salting and Sealing Meat in Fat at an Epipalaeolithic Megasite in Eastern Jordan. *Journal of Anthropological Archaeology*. 54, 84-101.

Stemp, W.J., **Danielle A. Macdonald**, and Matthew A. Gleason (2019). Testing Imaging Confocal Microscopy, Laser Scanning Confocal Microscopy, and Focus Variation Microscopy for Microscale Measurement of Edge Cross-sections and Calculation of Edge Curvature on Stone Tools: Preliminary Results. *Journal of Archaeological Science: Reports*. 24, 513-525.

2018

Macdonald, Danielle A., Adam Allentuck, Lisa A. Maher (2018). Technological Change and Economy in the Epipalaeolithic: Assessing the Shift from Early to Middle Epipalaeolithic at Kharaneh IV Through Lithic and Faunal Evidence. *Journal of Field Archaeology*. 43, 437-456.

Macdonald, Danielle A., Adrian A. Evans, Robert Harman (2018). Replicating Surface Texture: Preliminary Testing of Molding Compound Accuracy for Surface Measurements. *Journal of Archaeological Science: Reports*. 18, 839-846

Ramsey, Monica N., Arlene Rosen, Dani Nadel, **Danielle A. Macdonald**, Lisa A. Maher (2018). Sheltered by Reeds and Settled on Sedges: Construction and Use of a Twenty Thousand-Year-Old Hut According to Phytolith analysis from Kharaneh IV, Jordan. *Journal of Anthropological Archaeology*. 50, 85-97.

2016

Macdonald, Danielle A., Michael Chazan, and Joel Janetski (2016). The Geometric Kebaran Occupation and Lithic Assemblage of Wadi Mataha, Southern Jordan. *Quaternary International*. 396, 105-120.

Maher, Lisa, **Danielle A. Macdonald**, Adam Allentuck, Louise Martin, Anna Spyrou, and Matthew Jones (2016). Occupying Wide Open Spaces? Late Pleistocene Hunter-Gatherer Activities in the Eastern Levant. *Quaternary International*. 396, 79-94.

Ramsey, Monica N., Lisa A. Maher, **Danielle A. Macdonald**, and Arlene Rosen (2016). Risk, Reliability and Resilience: Phytolith Evidence for Alternative 'Neolithization' Pathways at Kharaneh IV in the Azraq Basin, Jordan. *PLoS ONE* 11 (10):e0164081. doi: 10.1371/journal.pone.0164081.

Jones, Matthew, Lisa Maher, **Danielle A. Macdonald**, Conor Ryan, Claire Rambeau, Stuart Black, Tobias Richter (2016). The Environmental Setting of Epipalaeolithic Aggregation Site Kharaneh IV. *Quaternary International*. 396, 95-104.

2014

Macdonald, Danielle A. (2014). The Application of Focus Variation Microscopy for Lithic Use-Wear Quantification. *Journal of Archaeological Science* 48, 26-33.

Maher, Lisa A., **Danielle A. Macdonald**, Aleksa Alaica, J.T. Stock, E.B. Banning (2014). Two Early Epipalaeolithic Sites in Wadi Taiyiba, Northern Jordan. *Paléorient* 40 (1), 73-97.

Evans, Adrian A., **Danielle A. Macdonald**, Claudiu L. Giusca, and Richard K. Leach (2014). New Method Development in Prehistoric Stone Tool Research: Evaluating Use Duration and Data Analysis Protocols. *Micron* 65, 69-75.

2012

Maher, Lisa A., Tobias Richter, **Danielle A. Macdonald**, Matthew Jones, Louise Martin, and Jay T. Stock (2012). Twenty Thousand-Year-Old Huts at a Hunter-Gatherer Settlement in Eastern Jordan. *PLoS ONE* 7 (2), e31447. doi:10.1371/journal.pone.0031447

2011

Evans, Adrian A. and **Danielle A. Macdonald** (2011). Using Metrology in Early Prehistoric Stone Tool Research: Further Work and a Brief Instrument Comparison. *Scanning* 33 (5), 294-303.

BOOK CHAPTERS

2025

Chazan, Michael, **Danielle A. Macdonald**, and A. Katherine Patton (2025). Laying out the Groundwork: The Excavations at Ali Kosh, Iran. In *Learning Archaeology: A Problem-Based Approach*. Edited by A. Katherine Patton, Danielle A. Macdonald, Michael Chazan. Routledge Books.

Macdonald, Danielle A., Ahmad Taher, Lisa A. Maher (2025). Uncovering Home: Excavations at Kharaneh IV, Jordan. In *Learning Archaeology: A Problem-Based Approach*. Edited by A. Katherine Patton, Danielle A. Macdonald, Michael Chazan. Routledge Books.

2022

Maher Lisa A., and **Danielle A. Macdonald** (2022). Burning Down the House: Epipalaeolithic Mortuary Behaviors with Links to Architecture in Prehistoric Jordan. In *Dealing with the Dead: Studies on Burial Practices in the Pre-Pottery Neolithic Levant*. Edited by Dana Ackerfeld and Avi Gopher. ex orient, Berlin, 47-64.

Macdonald, Danielle A. and Brian N. Andrews (2022). Mobile Homes and Persistent Places: An Introduction to Hunter-Gatherer Houses. In *More Than Shelter from the Storm: Hunter-Gatherer Houses and the Built Environment*. Edited by Brian N. Andrews and Danielle A. Macdonald. University Press of Florida, 1-12.

Macdonald, Danielle A. and Lisa A. Maher (2022). A Space for Living and Dying: The Life-History of Kharaneh IV Structures. In *More Than Shelter from the Storm: Hunter-Gatherer Houses and the Built Environment*. Edited by Brian Andrews and Danielle A. Macdonald. University Press of Florida, 58-82.

Macdonald, Danielle A., and Lisa A. Maher (2022). Hunter-Gatherer Art at Kharaneh IV. In *Studies in the History and Archaeology of Jordan, XIV, Part I*. Department of Antiquities of Jordan, Amman.

Stemp, James, and **Danielle A. Macdonald** (2022). Diversity and Lithic Microwear: Quantification, Classification, and Standardization. In *Defining and Measuring Diversity in Archaeology*. Edited by Metin Eren and Briggs Buchanan. Berghahn Books, 97-124.

Andrews, Brian, **Danielle A. Macdonald**, and Brook Morgan (2022). Diversity in Hunter-Gatherer Architecture. In *Defining and Measuring Diversity in Archaeology*. Edited by Metin Eren and Briggs Buchanan. Berghahn Books, 64-80.

2021

Tochtrop, Emily, and **Danielle A. Macdonald** (2021). In the Prehistoric Kitchen with Stone Tools: Identification of multifunctional tools through use-wear analysis. In *Beyond Use-Wear Traces: Going from Tools to People by Means of Archaeological Wear and Residue Analyses*. Edited by Sylvie Beyries, Caroline Hamon, and Yolaine Maigrot. Sidestone Press, Leiden, 41-54.

2020

Macdonald, Danielle A. and Lisa A. Maher (2020). Domestic tasks at Kharaneh IV: Understanding the Epipalaeolithic toolkit through microwear. In *Hunter-Gatherers Tool Kit: a*

functional perspective. Edited by Juan Gibaja, Ignacio Clemente, Niccollo Mazzucco, Joao Marreiros. Cambridge Scholars Press. Newcastle upon Tyne, UK, 197-214.

Maher, Lisa A. and **Danielle A. Macdonald** (2020). Communities of Interaction: Tradition and learning in stone tool production through the lens of Epipalaeolithic Kharaneh IV, Jordan. In *Culture History and Convergent Evolution: Can we detect population in prehistory?* Edited by Huw Groucutt. Springer, 213-243.

2017

Jones, Matthew, Lisa Maher, Tobias Richter, **Danielle A. Macdonald**, and Louise Martin (2017). Human-Environment Interactions through the Epipalaeolithic of Eastern Jordan. Chapter in *The Archaeology of Human-Environment Interactions: Strategies for Investigating Anthropogenic Landscapes, Dynamic Environments, and Climate Change in the Human Past*. Edited by Daniel Contreras. Routledge Studies in Archaeology Series, 121-140.

2014

Macdonald, Danielle A. and Adrian A. Evans (2014). The Effects of Cleaning on Surface Roughness: Evaluating Sample Preparation Using Use-Wear Quantification. In J. Marreiros, N. Bicho, & J.G. Bao (Eds.), *International Conference on Use-Wear Analysis: Use-Wear 2012*. Cambridge Scholars Publishing, Newcastle upon Tyne, UK, 116-123.

2013

Maher, Lisa A., and **Danielle A. Macdonald** (2013). Assessing Typo-Technological Variability in Epipalaeolithic Assemblages: Preliminary Results from Two Case Studies from the Southern Levant. In F. Borrell, J. J. Ibanez & M. Molist (Eds.), *Stone Tools in Transition: From Hunter-Gatherers to Farming Societies in the Near East. 7th Conference on PPN Chipped and Ground Stone Industries of the Fertile Crescent*. Universitat Autònoma de Barcelona. Servei de Publicacions, Barcelona, 29-44.

JOURNAL SPECIAL ISSUE GUEST EDITOR

Seiji Kadowaki, **Danielle A. Macdonald**, Ofer Marder, and Reuven Yeshurun. (*in process*). Multidisciplinary Perspectives on West Asian Prehistory: A Tribute to Donald O. Henry. *Archaeological Research in Asia*.

Thaler, Ulrich, Joao Marreiros, and **Danielle A. Macdonald**. (2023). Contact Materials: The ‘Other’ in Experimental Use-Wear Studies. *Journal of Archaeological Science: Reports*. 53

Macdonald, Danielle A., James Stemp, and Adrian A. Evans, editors (2018). Special Issue: Exploring the Microscale: Advances and Novel Applications of Microscopy for Archaeological Materials. *Journal of Archaeological Science: Reports* 18, 804-901.

Evans, Adrian A., Harry Lerner, **Danielle A. Macdonald**, and James Stemp, editors (2014). Special Issue: Lithic Microwear Method: Standardisation, Calibration and Innovation. *Journal of Archaeological Science* 48, 1-170.

Macdonald, Danielle A. and Jayne Wilkins, editors (2010). Between a Rock and a Hard Place: Conference Proceedings for Graduate Student's Lithic Symposium, special issue for *vis-à-vis: explorations in Anthropology* 10 (2), 1-119.

OTHER PUBLICATIONS

Macdonald, Danielle A. (2026). Anthropology in Action: How the Campus Can Become A Village. *The Community Archaeologist*. Oklahoma Public Archaeology Network. Spring Issue.

Macdonald, Danielle A. and Laura Stevens. (2024). Associate Professors and the 'Second Book Problem'. *Chronicle of Higher Education*. Published April 5, 2024.

<https://www.chronicle.com/article/associate-professors-and-the-second-book-problem>

Maher, Lisa A., and **Danielle A. Macdonald** (2020). New Discoveries at the Epipalaeolithic Site of Kharaneh IV: 2019 Excavations. *Archaeology in Jordan 2: 2018-2019*. American Center for Oriental Research.

Maher, Lisa A., and **Danielle A. Macdonald** (2019). 2018 Excavations at the Epipalaeolithic Site of Kharaneh IV. *Annual of Department of Antiquities of Jordan (ADAJ)*.

Macdonald, Danielle A., James Stemp, and Adrian A. Evans (2018). Introduction: Exploring the Microscale: Advances and Novel Applications of Microscopy for Archaeological Materials. *Journal of Archaeological Science: Reports* 18, 804-805.

Macdonald, Danielle A. and Maher, Lisa A. (2018). 2016 Excavations at the Epipalaeolithic Site of Kharaneh IV. *Archaeology in Jordan: 2016 and 2017 Seasons*.

Macdonald, Danielle A. (2016). Using Surface Texture to Understand the Past: Prehistoric Human Behavior under the Microscope. *Surface: Surface Imaging, Analysis, & Metrology from Digital Surf*. Newsletter Spring 2016, 6-7.

Macdonald, Danielle A. (2015). Book Review: *Beyond the Fertile Crescent: Late Paleolithic and Neolithic Communities of the Jordanian Steppe. The Azraq Basin Project, Vol. 1*. By Andrew Garrard and Brian Byrd (2013). Levant Supplementary Series 13, Oxbow Books, Oxford UK. *Geoarchaeology* 30 (5), 452-453.

Macdonald, Danielle A., and Adrian A. Evans (2014). Evaluating Surface Cleaning Techniques of Stone Tools Using Laser Scanning Confocal Microscopy. *Microscopy Today* 22 (3), 22-26.

Evans, Adrian A., Harry Lerner, **Danielle A. Macdonald**, W. James Stemp, Patricia C. Anderson (2014). Standardization, Calibration and Exploration: An Introduction to a Special Issue on Lithic Microwear Method. *Journal of Archaeological Science* 48, 1-4.

Maher, Lisa A., and **Danielle A. Macdonald** (2014). Kharaneh IV Excavation Project. In G. Corbett, D. Keller, B. Porter, and C. Tuttle (Eds.), *Archaeology in Jordan 2012 and 2013 Seasons*, *American Journal of Archaeology*, 118 (4), 634-636.

Maher, Lisa A., and **Danielle A. Macdonald** (2012). Exploring Typo-Technological Diversity in Chipped Stone from Epipalaeolithic Kharaneh IV, Eastern Levant. *CBRL Bulletin* 7 (1), 42-59.

Macdonald, Danielle A. (2011). Bringing in the Harvest: Experimental Archaeology in the South of France. *Past & Present: The Newsletter of the ROM Friends of Archaeology and the University of Toronto Archaeology Centre*, no. 3, fall.

Macdonald, Danielle A. (2010). Interpreting Variability through Multiple Methodologies: Form, Function and Technology of Microliths. In 'Between a Rock and a Hard Place: Conference Proceedings for the Graduate Student's Lithic Symposium', special issue for *vis-à-vis: explorations in Anthropology*, 10 (2), 22-33.

Macdonald, Danielle A. (2009). Book Review: Finding the People Who Flaked the Stone at English Camp (San Juan Island) by Angela E. Close. *The Midden: Publication of the Archaeological Society of British Columbia*, 41(1-2), 17-18.

Macdonald, Danielle A. (2006). The Typology of Time and Ethnicity: Reassessing Cultural Affiliation during the Epipalaeolithic. *Cultural Reflections*, 8 (fall), 40-50.

RESEARCH REPORTS

Maher, Lisa A. and **Danielle A. Macdonald** (2019). 2019 Excavations at the Epipalaeolithic Site of Kharaneh IV. Excavation report submitted to the Department of Antiquities of Jordan.

Macdonald, Danielle A. and Lisa A. Maher (2018). 2018 Excavations at the Epipalaeolithic Site of Kharaneh IV. Excavation report submitted to the Department of Antiquities of Jordan.

Macdonald, Danielle A. and Lisa A. Maher (2016). 2016 Excavations at the Epipalaeolithic Site of Kharaneh IV. Excavation report submitted to the Department of Antiquities of Jordan.

Macdonald, Danielle A. (2015). 2015 Excavations at the Epipalaeolithic Site of Kharaneh IV. Excavation report submitted to the Department of Antiquities of Jordan.

Maher, Lisa A. and **Danielle A. Macdonald** (2013). 2013 Excavations at the Epipalaeolithic Site of Kharaneh IV. Excavation report submitted to the Department of Antiquities of Jordan.

Giusca, Claudiu L., Adrian A. Evans, **Danielle A. Macdonald**, Richard K Leach (2012). The Effect of Use Duration on Surface Roughness Measurements of Stone Tools. NPL Report ENG 35. National Physical Laboratories, UK. ISSN 1754-2987.

CONFERENCE PRESENTATIONS

2026

Maher, Lisa A. and **Danielle A. Macdonald**. Navigating Landscapes and Seascapes: Comparing Epipalaeolithic Hunter-Gatherers of the Levant and Early Cyprus. *Society for American Archaeology Meeting*. San Francisco CA, April 29-May 3, 2026.

Henning, Savanna, **Danielle A. Macdonald**, Lisa Maher, and Alan Simmons. Beyond the Rockshelter: Lithic Technologies and Mobility in Epipaleolithic Cyprus. *Society for American Archaeology Meeting*. San Francisco CA, April 29-May 3, 2026.

Macdonald, Danielle A. and W. James Stemp. Anthropogenic or Naturogenic? Quantifying Post-Depositional Traces on Lithics. *Association of Archaeological Wear and Residue Analysts Conference*. Pisa, Italy, April 8-11, 2026.

Zhang, Jing, Sihang Li, Juexiao Zhang, Xue Wang, **Danielle A. Macdonald**, Chen Feng, Radu Iovita. Toward Scalable AI-Powered Lithic Microwear Analysis. *Association of Archaeological Wear and Residue Analysts Conference*. Pisa, Italy, April 8-11, 2026.

2025

Macdonald, Danielle A., Lisa A. Maher, Ahmad Thaher, and Theresa Barket. Symbolic Expression in Hunter-Gatherer Communities: Artistic Objects at Kharaneh IV. *16th International Conference on the History and Archaeology of Jordan*. Athens, Greece, September 22-26, 2025.

Maher, Lisa A., **Danielle A. Macdonald**, Ahmad Thaher, and Theresa Barket. Lessons from the Water's Edge: From Wetlands to Deserts & the Role of Water in Hunter-Gatherer Lifeways of Eastern Jordan. *16th International Conference on the History and Archaeology of Jordan*. Athens, Greece, September 22-26, 2025.

Thaher, Ahmad, **Danielle A. Macdonald**, Lisa A. Maher, and Theresa Barket. Living as Neighbors: A Comparative Techno-Typological Analysis of Early Epipalaeolithic Learning Communities Between Kharaneh IV and Wadi Jilat 6, East Jordan. *16th International Conference on the History and Archaeology of Jordan*. Athens, Greece, September 22-26, 2025.

Barket, Theresa, Lisa A. Maher, **Danielle A. Macdonald**, and Ahmad Thaher. Debitage is it Just Trash? The Interpretive Benefits of Applying a Techno-Typological Analysis of Debitage for Epipalaeolithic Assemblages. *16th International Conference on the History and Archaeology of Jordan*. Athens, Greece, September 22-26, 2025.

Macdonald, Danielle A. Underwater Traces: Use-wear Analysis of Lithic Assemblages from Submerged Lake Huron Sites. *Society for American Archaeology Meeting*. Denver, CO, April 23-27, 2025.

Matveeva, Anastasia, **Danielle A. Macdonald**, and Lisa A. Maher. Insights on Kharaneh IV Through Shell Beads. *Society for American Archaeology Meeting*. Denver, CO, April 23-27, 2025.

Iovita, Radu, Jing Zhang, Alan Hu, Andrea Wong, Chenmeinian Guo, Sara Borsodi, Felix Kisenia, **Danielle A. Macdonald**, Chen Feng. Computer vision-aided identification of prehistoric worked materials from lithic use wear polish on chert. *Annual Meeting of the Paleoanthropology Society*. Denver, CO, April 22-23, 2025.

2024

Macdonald, Danielle A., and Lisa A. Maher. Pre-Neolithic Hunter-Gatherers and the Production of Place. *World Neolithic Conference*. Şanlıurfa, Turkey. November 4-8, 2024.

Clark, Amy, and **Danielle A. Macdonald**. "Us the Hunters": Evaluating Shifting Gender Dynamics of North American Paleolithic Researchers and Scholarship. *Society for American Archaeology Meeting*. New Orleans, LA, April 17-21, 2024.

Miller, Mel, and **Danielle A. Macdonald**. A Low-Cost Method for Measuring Ridge Width on Lithic Artifacts for the Purpose of Evaluating Artifact Condition. *Society for American Archaeology Meeting*. New Orleans, LA, April 17-21, 2024.

Maher, Lisa A., **Danielle A. Macdonald**, AJ White, Jordan Brown. From Wetlands to Deserts: The Role of Water in Prehistoric Occupation of Eastern Jordan. *Society for American Archaeology Meeting*. New Orleans, LA, April 17-21, 2024.

Thaher, Ahmad, **Danielle A. Macdonald**, Theresa Barket, and Lisa A. Maher. From Triangles to Rectangles: Exploring Change Over Times at the Epipalaeolithic Site of Kharaneh IV, Jordan. *Society for American Archaeology Meeting*. New Orleans, LA, April 17-21, 2024. (poster)

2023

Maher, Lisa A., **Danielle A. Macdonald**, Sarah Stewart, Alan Simmons. Epipalaeolithic Wayfarers: Early Explorers of Cyprus. *American Society of Overseas Research (ASOR) Meeting*. Chicago, Illinois, November 15-18, 2023.

Macdonald, Danielle A., Lisa A. Maher, Theresa Barket, Naomi L. Martisius, Ahmad Thaher. Assessing Change over Time at Kharaneh IV through the *Chaîne Opératoire*. *Society for American Archaeology Meeting*. Portland, OR, March 29–April 2, 2023.

Maher, Lisa A., **Danielle A. Macdonald**, Theresa Barket, Naomi L. Martisius, Ahmad Thaher. Approaches to Lithic Technology: How Archaeological Practice Influences Interpretation of Past Lifeways through the lens of Kharaneh IV. *Society for American Archaeology Meeting*. Portland, OR, March 29–April 2, 2023.

Stemp, W. James, **Danielle A. Macdonald**, Naomi L. Martisius, Christopher Brown, Logan Guthrie, and Matthew Gleason. Quantification of Use-wear on Experimental Shell Tools: First Results using Focus Variation Microscopy and Surface Roughness Analysis. *Society for American Archaeology Meeting*. Portland, OR, March 29–April 2, 2023.

Martisius, Naomi L., Logan Guthrie, and **Danielle A. Macdonald**. Time to Shine: Quantifying the Effect of Burnishing as a Bone Tool Production Method. *Society for American Archaeology Meeting*. Portland, OR, March 29–April 2, 2023.

2022

Macdonald, Danielle A., and Lisa A. Maher. Quantifying Aesthetics: Using Confocal Microscopy for the Analysis of Epipalaeolithic Artistic Objects. *10th International Conference of the Chipped and Ground Stone Industries of the Near East*. Copenhagen, Denmark, October 17-21, 2022.

Maher, Lisa A., **Danielle A. Macdonald**, Felicia De Pena, Theresa Barket, Ahmad Thaher. It's All Going According to Plan: An Investigation of the *Chaîne Opératoire* of Kharaneh IV. *15th International conference on History and Archaeology of Jordan*. Irbid, Jordan, August 2-5, 2022.

Macdonald, Danielle A., Tomasz Bartkowiak, Michal Mendak, W. James Stemp, Alastair J.M. Key, Ignacio de la Torre, Michał Wieczorowski. Sharp Edges and Deep Cuts: Using microCT for the multiscale characterization of edge curvature on Olduvai Gorge quantize flakes. *Association*

of Archaeological Wear and Residue Analysts (AWRANA) Conference. Barcelona, Spain, April 4-8, 2022.

Martisius, Naomi L., **Danielle A. Macdonald**, and Lisa A. Maher. Top-notch bone implements: exploring the technology and symbolism of incised bones at the Epipalaeolithic site, Kharaneh IV (Jordan). *Association of Archaeological Wear and Residue Analysts (AWRANA) Conference*. Barcelona, Spain, April 4-8, 2022.

Torres, Hilda, **Danielle A. Macdonald**, Lisa A. Maher. Identification of Kharaneh IV Bone Tool Use through Tip Breakage. *Association of Archaeological Wear and Residue Analysts (AWRANA) Conference*. Barcelona, Spain, April 4-8, 2022.

Macdonald, Danielle A., and Lisa A. Maher. Epipalaeolithic “Cultures”: Using variability to explore hunter-gatherer communities in the past. *Society for American Archaeology Meeting*. Chicago, March 31-April 3, 2022. (poster)

Martisius, Naomi L., **Danielle A. Macdonald**, and Lisa A. Maher. Notching bone in the Epipalaeolithic: a case study from Kharaneh IV tools. *Society for American Archaeology Meeting*. Chicago, March 31-April 3, 2022.

2021

Macdonald, Danielle A. Use-Traces and Material Affordances of Multifunctional Tools. *European Archaeological Association*. Virtual meeting, September 8-11, 2021.

2020

Simmons, Alan, Lisa Maher, Sarah Stewart, **Danielle Macdonald**. Epipalaeolithic Cliff Hangers. *American School of Oriental Research Annual Meeting*, November 20, 2020 (virtual meeting)

Macdonald, Danielle, Lisa Maher, Alan Simmons, and Sarah Stewart. Cliff Hangers of the Epipalaeolithic: Recent Discoveries in South-Central Cyprus. *39th CAARI Annual Summer Workshop*. Nicosia, Cyprus, June 20, 2020 (abstract accepted, conference cancelled due to COVID-19 pandemic).

Macdonald, Danielle and Lisa Maher. Leaving Home: The Abandonment of Kharaneh IV. *Society for American Archaeology Meeting*. Austin, TX, April 22-26, 2020 (abstract accepted, conference cancelled due to COVID-19 pandemic).

Macdonald, Danielle, Lisa Maher, Sarah Stewart, and Alan Simmons. Ancient Seafaring Explorers of Cyprus: Traversing Land and Sea during the Epipalaeolithic. *Oklahoma Archaeology Conference*. Tulsa, OK, March 5-7, 2020.

2019

Maher, Lisa, **Danielle Macdonald**, and Steven Edwards. Social Networks and Knapping Communities in the Middle Epipalaeolithic Southern Levant. *American School of Oriental Research Meeting*. San Diego, CA, November 20-23, 2019.

Macdonald, Danielle and Lisa Maher. A Space for Living and Dying: The Life-History of Kharaneh IV Structures. *Society for American Archaeology Meeting*. Albuquerque, NM, April 10-14, 2019.

Maher, Lisa, and **Danielle Macdonald**. Built Environments of Epipalaeolithic Southwest Asia: A Life History of Place. *Society for American Archaeology Meeting*. Albuquerque, NM, April 10-14, 2019.

Stemp, W. James and **Danielle Macdonald**. Diversity and Lithic Microwear: Quantification, Classification, and Standardization. *Society for American Archaeology Meeting*. Albuquerque, NM, April 10-14, 2019.

Andrews, Brian, **Danielle Macdonald**, and Brooke Morgan. Diversity in Hunter-Gatherer Architecture. *Society for American Archaeology Meeting*. Albuquerque, NM, April 10-14, 2019.

Williams, Nancy, Miriam Belmaker, and **Danielle Macdonald**. Squeaky Clean: An experiment to test the usefulness of cleaning agents on silicon dental impression molds. *Society for American Archaeology Meeting*. Albuquerque, NM, April 10-14, 2019 (poster)

Macdonald, Danielle and Lisa Maher. Artistic Traditions in the Early and Middle Epipalaeolithic: Kharaneh IV in Perspective. *International Conference on the History and Archaeology of Jordan (14th)*. Florence, Italy. January 21-25, 2019

Lisa Maher and **Danielle Macdonald**. Place-Making in the Wetland: Microstratigraphic Traces of Hunter-Gatherer Lifeways at Kharaneh IV and Beyond. *International Conference on the History and Archaeology of Jordan (14th)*. Florence, Italy. January 21-25, 2019

2018

Macdonald, Danielle, Liye Xie, and Tiziana Gallo. Here's the Dirt (II of II): Exploring the Applications of Quantitative Microscopy for Ground Stone Digging Tools. *Association of Archaeological Wear and Residue Analysts Conference (AWRANA)*. Nice, France, May 29-June 1 2018

Xie, Liye, Tiziana Gallo, and **Danielle Macdonald**. Here's the Dirt (I of II): Advancing methods for use-wear analysis on earth-working tools crafted from heterogeneous raw materials. *Association of Archaeological Wear and Residue Analysts Conference (AWRANA)*. Nice, France, May 29-June 1 2018 (poster)

Tochtrop, Emily and **Danielle Macdonald**. In the Prehistoric Kitchen with Stone Tools: Identification of multifunctional tools through use-wear analysis. *Association of Archaeological Wear and Residue Analysts Conference (AWRANA)*. Nice, France, May 29-June 1, 2018 (poster)

Royal, Kyleigh, Briggs Buchanan, and Danielle Macdonald. Distortions of the Past: Parallax and its Influence on Geometric Morphometrics. *OU-TU Research Colloquium*. Tulsa OK, April 18, 2018 (poster)

Macdonald, Danielle and Lisa Maher. Every block of stone has a statue inside: Epipalaeolithic engraved plaquettes and art at Kharaneh IV. *Society for American Archaeology Meeting*. Washington, D.C., April 11-15, 2018

Maher, Lisa and **Danielle Macdonald**. Becoming Neolithic or Being a Hunter-Gatherer? Reframing the origins of agriculture through a *longue durée* perspective. *Society for American Archaeology Meeting*. Washington, D.C., April 11-15, 2018

Macdonald, Danielle. Communities of Interaction: Hunter-Gatherer Aggregation in Epipalaeolithic Jordan. *Oklahoma Archaeological Conference*. Norman, OK, March 1-3, 2018

Tochtrop, Emily and **Danielle Macdonald**. The identification of multifunctional tools through use-wear analysis. *Oklahoma Archaeological Conference*. Norman, OK, March 1-3, 2018 (poster)

2017

Macdonald, Danielle. Traces of the Past: 3D Microscopy and Lithic Microwear. *Southeastern Archaeology Conference*. Tulsa, OK, November 8-11, 2017

Tochtrop, Emily and **Danielle Macdonald**. The Right Tool for the Job: Identification of multifunctional tools through use-wear analysis. *Southeastern Archaeology Conference*. Tulsa, OK, November 8-11, 2017 (poster)

Maher, Lisa, **Danielle Macdonald**, and Jay Stock. Living and Dying in the Epipalaeolithic: A 20,000-Year-Old Cremation from Eastern Jordan. *Paleoanthropological Society Meeting*. Vancouver, Canada. March 28-29, 2017

Ramsey, Monica, Tobias Richter, **Danielle Macdonald**, and Lisa Maher. Growing Investment in “Place”: Exploring Late Pleistocene Perceptions of “Nature” in the Southern Levant. *Society for American Archaeology Meeting*. Vancouver, Canada. March 29-April 2, 2017

2016

Macdonald, Danielle and Lisa Maher. Persistent Places: Assessing Chronological Change and Cultural Groups at Kharaneh IV. 8th *International Conference on PPN Chipped and Ground Stone Industries of the Near East*. Nicosia, Cyprus. November 23-27, 2016

Maher, Lisa, and **Danielle Macdonald**. Communities of Interaction: Implications and Motivations for Hunter-Gatherer Aggregation through the lens of Kharaneh IV, Jordan. 8th *International Conference on PPN Chipped and Ground Stone Industries of the Near East*. Nicosia, Cyprus. November 23-27, 2016

Macdonald, Danielle, Adrian Evans, Rob Harman. Replicating Surface Texture: Testing the Accuracy of Molding Materials with Confocal Microscopy. *Society for American Archaeology Meeting*, Orlando FL, April 6-10, 2016

Maher, Lisa, **Danielle Macdonald**, Adam Allentuck, Joe Roe, Adrian Evans. Organization of Domestic Space at Kharaneh IV. *International Conference on the History and Archaeology of Jordan (13th)*. Amman, Jordan, May 22-26, 2016

2015

Macdonald, Danielle and Adrian Evans. 3D Microscopy Methods for Lithic Microwear Analysis. *AWRANA Conference*. Leiden, Netherlands, May 27-30, 2015

Evans, Adrian and **Danielle Macdonald**. Blind Testing Laser-Scanning Confocal Microscopy for Lithic Microwear Analysis. *AWRANA Conference*. Leiden, Netherlands, May 27-30, 2015

Macdonald, Danielle and Lisa Maher. Exploring Domestic Tasks at Kharaneh IV using Lithic Microwear Analysis. *Society for American Archaeology Meeting*. San Francisco CA, April 15-19, 2015

2014

Evans, Adrian and **Danielle Macdonald**. Laser-Scanning Confocal Microscopy: Applications for Lithic Microwear Analysis. *XVII World UISPP Conference*. Burgos, Spain, September 1-7, 2014

Macdonald, Danielle. Micro-topographies and Human Action: Interpreting Behaviour through Surface Traces. *Society for American Archaeology Meeting*. Austin TX, April 23-27, 2014

2013

Macdonald, Danielle. Assessing movement through microwear: gesture and function in the chaîne opératoire. *Theoretical Archaeology Group (TAG) Conference*. Chicago IL, May 9-11, 2013

2012

Macdonald, Danielle, Adrian Evans, Claudiu Giusca, and Richard Leach. The Effect of Use Duration on Surface Roughness Measurements of Lithic Tools. *Society for American Archaeology Meeting*. Honolulu HI, April 3-7, 2012

Evans, Adrian, **Danielle Macdonald**, Silvia Bello, and Andreu Ollé. 3D Microscopy in Archaeology: A Review of Techniques and Applications. *Society for American Archaeology Meeting*. Honolulu HI, April 3-7, 2012

Stemp, James, Tonya Coffey, Adrian Evans, Harry Lerner, and **Danielle Macdonald**. An Assessment of Multiple Surface Measurement Systems: Documenting Use-wear on Experimental Mistassini Quartzite Scrapers. *Society for American Archaeology Meeting*. Honolulu HI, April 3-7, 2012

Bilton, David and **Danielle Macdonald**. Manufacturing Mortuary Beads on the Northwest Coast: Applications of Quantitative Microscopy to Bead Assemblages. *Society for American Archaeology Meeting*. Honolulu HI, April 3-7, 2012

Macdonald, Danielle and Adrian Evans. The Effects of Cleaning on Surface Roughness: Evaluating Sample Preparation Using Use-Wear Quantification. *International Conference on Use-Wear Analysis*. Faro, Portugal, October 10-12, 2012 (poster)

Donahue, Randolph, Adrian Evans, and **Danielle Macdonald**. The Contribution of Microwear Analysis in the Study of Post-Depositional Processes to Site Interpretation. *International Conference on Use-Wear Analysis*. Faro, Portugal, October 10-12, 2012

Evans, Adrian, **Danielle Macdonald**, Randolph Donahue, Claudiu Giusca, and Richard Leach. Laser Scanning Confocal Microscopy: Application to Stone Tool Function (and other

archaeological problems). *European Microscopy Congress 2012*. Manchester, UK, September 16-21, 2012

Macdonald, Danielle. The Integration of Theory and Practice in Lithic Microwear Studies. *Theoretical Archaeology Group (TAG) Conference*. Buffalo NY, May 17-20, 2012.

Maher, Lisa and **Danielle Macdonald.** Assessing Variability in Epipalaeolithic Assemblages: Two Case Studies from the Southern Levant. *7th International Conference on the Chipped and Ground Stone Industries of the Pre-Pottery Neolithic*. Barcelona, Spain, February 14-16, 2012.

Macdonald, Danielle. Exploring New Methods of Lithic Use-Wear Quantification. *Archaeologists at Work*. Archaeology Centre, University of Toronto, Toronto ON, February 10, 2012.

2011

Macdonald, Danielle and Lisa Maher. New Tricks for Changing Lifeways in the Epipalaeolithic of the Levant? Understanding Chipped Stone Tool Technologies from the Aggregation Site of Kharaneh IV, Eastern Jordan. *American Anthropological Association Meeting*. Montreal QC, November 16-20, 2011.

Macdonald, Danielle. Both Sides of the Coin: Qualitative and Quantitative Methods of Use-Wear Analysis. *Society for American Archaeology Meeting*. Sacramento, March 30-April 3, 2011.

2010

Evans, Adrian and **Danielle Macdonald.** The Application of Surface Metrology to Archaeology: New Approaches to the Quantification of Lithic Microwear Analysis. *International Conference on Surface Metrology*. Worcester, Worcester Polytechnic Institute, October 26-28, 2010.

Macdonald, Danielle. New Methodologies for the Use-wear Analysis of Epipalaeolithic Microliths. *International Conference on the History and Archaeology of Jordan (11th)*. Paris France, June 7-12, 2010.

Macdonald, Danielle. Use-wear Analysis of Microlithic Tools using Three-Dimensional Microscopy. *Society for American Archaeology Meeting*. St. Louis, April 14-18, 2010.

Macdonald, Danielle. Interpreting variability through multiple methodologies: form, function and technology of microliths. *Between a Rock and a Hard Place: Graduate Students' Lithic Symposium*. Toronto ON, University of Toronto (St. George Campus), February 24-25, 2010.

2009

Macdonald, Danielle. Applications of the Alicona InfiniteFocus Microscope for Lithic Microwear Studies. *International Conference on Surface Metrology*. Worcester, Worcester Polytechnic Institute, October 26-28, 2009.

2008

Macdonald, Danielle. Debitage Studies of 'Uyun al-Hammâm. *Society for American Archaeology Meeting*. Vancouver BC, March 26-30, 2008.

2007

Macdonald, Danielle. Outline of Masters Research: Debitage Studies of ‘Uyun al-Hammâm. *Puzzle Pieces: Graduate Research and the Community*. Victoria BC, University of Victoria, March 30, 2007.

Macdonald, Danielle. Debitage Studies of ‘Uyun al-Hammâm: The Reconstruction of Epipalaeolithic Reduction Sequences. *Humans: Anthropological Perspectives on Holism*. Vancouver BC, University of British Columbia, March 1-7, 2007.

INVITED SPEAKER AND PANEL PRESENTATIONS

Macdonald, Danielle A. Collaborating to Enhance Opportunities for Afghan Students (invited panel member). *University Network For Afghan Women: Mobilizing to Support Afghan Women’s Education*. Online, April 23, 2024.

Macdonald, Danielle A. Building Sustainable Models and Inclusive Practices to Enroll Refugee and Displaced Students (invited panel member). *AACRAO 109th Annual Meeting*. Columbus, Ohio, April 7-10, 2024.

Macdonald, Danielle A. Refugee Support Initiatives at the University of Tulsa. *2024 Oklahoma State NAFSA Meeting*. Tulsa, OK. April 4, 2024.

Macdonald, Danielle A. More Than Shelter: Hunter-Gatherer Houses at the Threshold to Agriculture. Invited talk for the *Archaeological Institute of America*. University of Oklahoma, Norman, OK. March 15, 2024.

Macdonald, Danielle A. Becoming a Resettlement Campus in a Time of Flux: Navigating Preparation during Administrative Changes (invited panel member). *Every Campus A Refugee Gathering*. Wake Forest University, North Carolina. October 6-7, 2023.

Macdonald, Danielle A. Housing and Campus Utilization for Non-Student Refugees (invited panel member). *Supporting Higher Education and Refugee Resettlement Workshop (SHERR)*. University of Maryland, Maryland. November 8-9, 2023.

Maher Lisa A., **Danielle A. Macdonald**, Sally Stewart, and Alan Simmons. Ancient Hunter-Gatherer Seafaring Explorers of Cyprus. Invited talk for *The Cyprus Institute*, Nicosia, Cyprus. May 19, 2023.

Macdonald, Danielle A. Measurements of the Past: The Applications of Surface Metrology in Archaeology (keynote speaker). Invited talk for the *University of Liege*, Belgium (online). November 11, 2022.

Macdonald, Danielle A. Measurements of the Past: The Applications of Surface Metrology in Archaeology (keynote speaker). *International Conference on the Metrology and Properties of Surfaces*. Glasgow, Scotland. June 27-30, 2022.

Macdonald, Danielle A. More Than Shelter: Exploring Epipalaeolithic Hunter-Gatherer Houses Through Use-Wear Analysis. Invited talk for the *Institut für Archäologische Wissenschaften, Ruhr-Universität Bochum, Germany* (online). June 2, 2022.

Macdonald, Danielle A. Charactering the Surface of Multifunctional Tools. *Quantitative Artifact Microwear Analysis Workshop*. Virtual workshop hosted by TraCEr-MONREPOS, Archäologisches Forschungszentrum und Museum für menschliche Verhaltensevolution, Germany, November-December 2021.

Martisius, Naomi L. and Danielle A. Macdonald. Boning up on raw material selection: testing the skeletal element effect of bones used as tools. *Quantitative Artifact Microwear Analysis Workshop*. Virtual workshop hosted by TraCEr-MONREPOS, Archäologisches Forschungszentrum und Museum für menschliche Verhaltensevolution, Germany, November-December 2021.

Macdonald, Danielle A., and Lisa A. Maher. Leaving Home: The abandonment of Kharaneh IV. *Risky Business: Comparative Approaches to Risk and Resilience in Arid Landscapes Workshop*. Virtual workshop hosted by Planet Texas 2050 and the University of Texas at Austin. May 25, 2021.

Macdonald, Danielle. Palaeolithic Landscapes: Aggregation and Interaction at Kharaneh IV, Jordan. Invited talk for the *Department of Geosciences, The University of Tulsa*. October 26, 2016.

Macdonald, Danielle. Aggregation and Interaction at the Epipalaeolithic site Kharaneh IV. Invited talk for *CEPAM-CNRS, Université Nice Sophia Antipolis*. May 16, 2014.

Macdonald, Danielle. The Interplay of Form and Function in Epipalaeolithic Microliths. Invited talk for the *Institut for Tværkulturelle og Regionale Studier, University of Copenhagen, Denmark*. February 28, 2014.

PUBLIC PRESENTATIONS

Macdonald, Danielle A. Using New Technologies to Understand the Past: Exploring Hunter-Gatherer Artistic Traditions in Jordan Using Confocal Microscopy. *Academics and Ales*. Research Presentations from the College of Arts & Science, The University of Tulsa. Heirloom Rustic Ales, Tulsa, OK. January 27, 2023.

Allen, Brian and **Danielle Macdonald.** Afghans, Our New Neighbors: Resettlement Program, Education, Culture, and Homeland. Tulsa Community College. Tulsa, OK, February 17, 2022.

Macdonald, Danielle. Communities of Interaction: Hunter-Gatherer Aggregation in Epipalaeolithic Jordan. *Oklahoma Archaeological Society*. Tulsa, OK. April 30, 2018.

Macdonald, Danielle. Revolution or Evolution? Exploring the Transitions from Hunting-Gathering to the Origins of Agriculture. *STEMCell Presents: Think and Drink*. Tulsa, OK. November 29, 2017.

ADVISOR EXPERIENCE

Postdoctoral Fellows

- 2023-2024 Dr. Patrick Nørskov Pedersen, Postdoctoral Mentor
Fulbright Visiting Scholar from Denmark
Preparing a surface (PRESUR): The forgotten step of “seasoning” food processing ground stone and its implications for use-wear analysis
- 2021-2022 Dr. Naomi Martisius, Co-Principal Investigator and Postdoctoral Sponsor
National Science Foundation, SBE Postdoctoral Research Fellowship (award # 2004818)
Investigating the evolution of bone technologies through quantitative method development

Graduate Supervision

- 2024-2026 Savanna Henning, MA Supervisor, Department of Anthropology & Sociology, The University of Tulsa
Legacy Collections and New Frameworks: Lithic Technology and Assemblage Variability in Epipalaeolithic Cyprus
- 2023-2025 Ahmad Thaher, MA Supervisor, Department of Anthropology & Sociology, The University of Tulsa
Living as Neighbors: A Techno-Typological Lithic Analysis of Nizzanan Learning Communities at Kharaneh IV and Wadi Jilat 6, Eastern Jordan
- 2023-2025 Anastasia Matveeva, MA Supervisor, Department of Anthropology & Sociology, The University of Tulsa
Personal Ornamentation at Kharaneh IV: An Aesthetic Analysis of the Shell Bead Assemblage
- 2022-present Hilda Torres, PhD External Committee Member, Department of Anthropology, Texas State University (appointed as Adjunct Doctoral Faculty)
- 2022-2024 Nicholas Gala, MA Committee Member, Department of Anthropology & Sociology, The University of Tulsa
Make Waste: Using Comparative Lithic Debitage Analyses to Understand Folsom Site Function in the Rocky Mountains.
- 2020-2023 Nkem Ike, PhD Supervisor, Department of Anthropology, The University of Tulsa
Rising from Ashes: An Archaeology of Memory, Landscape and Racial Violence
- 2019-2023 Zachary Qualls, PhD Supervisor, Department of Anthropology, The University of Tulsa
Woven Resilience: An Ethnoarchaeological Approach to Social Change in Cherokee Basketry
- 2019-2021 Audra Whitehurse, MA Supervisor, Department of Anthropology, The University of Tulsa
Hunter-Gatherer Personal Ornamentation: Kharaneh IV in Context

- 2019-2021 Kirstie Michaela Conway, Department of Anthropology, The University of Tulsa
Diversification of Ceramic Types in the North American West: A Comparison with Projectile Point Diversification
- 2018-2020 Kathleen Kelley, MA Committee Member, Department of Anthropology, The University of Tulsa
Could Archaic Homo Sapiens Survive in the Tropics? A Paleoenvironmental Analysis Using Micromammal Remains from the Early Late Pleistocene in Guangxi, China
- 2016-2022 Mel Miller, PhD Supervisor, Department of Anthropology, The University of Tulsa
The Invention of Bestwood: Niche Construction and the Fauresmith at Bestwood, Northern Cape, South Africa
- 2016-2018 Emily Tochtrop, MA Supervisor, Department of Anthropology, The University of Tulsa
In the Prehistoric Kitchen with Stone Tools: Identification of multifunctional tools through use-wear analysis
- 2015-2016 Kathryn Ragan, MA Committee Member, Department of Anthropology, The University of Tulsa
Assessing Collector Bias: A Geometric Morphometric Analysis of a Collection of Isolated Clovis Points from the Midcontinent

TEACHING EXPERIENCE

Graduate Courses (taught at The University of Tulsa, unless indicated)

Seminar in Archeological Theory; Archaeological Research Design and Professional Development; Analysis of Lithic Artifacts; The Life of Objects: Thinking Through Material Culture

Undergraduate Courses (taught at The University of Tulsa, unless indicated)

Culture, People, Nature: General Anthropology; Every Campus A Refuge: Refugee Resettlement Service Learning; The Life of Objects: Thinking Through Material Culture; Archaeological Analysis; Research Seminar in Anthropology; Archaeological Science; First Seminar, The Life of Objects; Archaeological Laboratory (taught at the University of Toronto); Archaeology Laboratory (taught at the University of Victoria)

Independent Studies Courses (taught at The University of Tulsa, unless indicated)

Archaeology of Afghanistan, Graduate Independent Study (Summer 2025); Prehistory of Cyprus, Graduate Independent Study (Spring 2025); Ancient Personal Ornaments, Graduate Independent Study (Spring 2020); Experimental Archaeology, Undergraduate Independent Study (Spring 2019, Spring 2022); The Epipalaeolithic, Graduate Independent Study (Spring 2019, Fall 2021, Spring 2024); Lithic Microwear Analysis and the Acheulean, Graduate Independent

Study (Spring 2016, Spring 2023); *Lithic Microwear Analysis*, Graduate
Independent Study (Fall 2016)

RESEARCH PROJECTS

- 2018-Present Ancient Seafaring Explorers of Cyprus (ASEC): Project Director (with Lisa Maher, Sarah Stewart, and Alan Simmons)
Co-director of survey project targeted towards the discovery of Epipalaeolithic sites along the southern coast of Cyprus
- 2013-Present Kharaneh IV: Project Director (with Lisa Maher)
Co-director and permit holder of excavations at Early/Middle Epipalaeolithic site Kharaneh IV
- 2008-2013 Epipalaeolithic Foragers in Azraq Project (EFAP): Excavation Supervisor and Laboratory Manager
Project Directors; Lisa Maher (University of California, Berkeley), J.T. Stock (University of Cambridge), Tobias Richter (University of Copenhagen)
- 2004-2008 Wadi Ziqlab Project: Excavator and Laboratory Analyst
Project Directors; E.B. Banning (University of Toronto) and Lisa Maher (University of California, Berkeley)
- 2003 Prince Rupert Harbor Project: Excavator
Project Director; Gary Coupland (University of Toronto)
- 2002 Ballykilcline Field School: Excavator
Project Director; Charles Orser (Illinois State University)

PROFESSIONAL EXPERIENCE

- 2012-2013 Assistant to the Director: Archaeology Centre, University of Toronto
- 2007-2008 Archaeological Research Assistant: Strata Consulting
- 2006-2007 Lithic Analyst and Research Assistant: Cordillera Archaeology
- 2004-2007 Report Author and Laboratory Technician: Archaeological Services Inc.

BOARD POSITIONS

- 2026-present Board of Directors: *Tulsa Higher Education Consortium* (THEC)
- 2025-present Board of Directors: *American Center of Research* (ACOR)
- 2020-present Advisory Board: *Oklahoma Archaeological Survey* (OAS)
- 2017-present Advisory Board: *Oklahoma Public Archaeology Network* (OKPAN)

2015-2023 Treasurer: *Association of Archaeological Wear and Residue Analysts* (AWRANA)

SERVICE TO THE DISCIPLINE

2024-present co-Editor-in-Chief: *Journal of Archaeological Science: Reports*, Elsevier

2023 Conference Session Organizer: ‘Animal resources in experimental archaeology’, *Society for American Archaeology Meeting*, Portland, March 29–April 2, 2023 (with Naomi Martisius and Giulia Gallo).

2022 Scientific Committee: *Association of Archaeological Wear and Residue Analysts* (AWRANA) Meeting, Barcelona, Spain, April 4-8

2020-2024 Associate Editor: *Journal of Archaeological Science: Reports*, Elsevier

2019-2020 Conference Organizer (Lead): Principal organizer for the *Oklahoma Archaeology Conference*. Tulsa, OK, March 5-7, 2020.

2019 Conference Session Organizer: ‘More Than Shelter from the Storm: Hunter-Gatherer Houses and the Built Environment’ *Society for American Archaeology Meeting*. Albuquerque, NM, April 10-14, 2019 (with Brian Andrews)

2018-2021 Student Paper Award Committee: *Society for American Archaeology*

2018 Conference Session Organizer: ‘Archaeological Research Outside of Oklahoma’, *Oklahoma Archaeology Conference*, Norman OK. March 1-3 2018 (with Amy Clark)

2017-2018 Scientific Committee: *Association of Archaeological Wear and Residue Analysts* (AWRANA) Meeting, Nice France, May 29-June 1

2017 Conference Organizer: Organized the Welcome Committee, *Southeastern Archaeology Conference* (SEAC), November 8-11, 2017 Tulsa OK

2016 Conference Session Organizer: ‘Exploring the Microscale: Advances and Novel Applications of Microscopy for Archaeological Materials’, *Society for American Archaeology Meeting*, Orlando, April 6-10, 2016 (with Adrian Evans and James Stemp).

2015 Conference Session Organizer: ‘New Methods of Microwear Analysis: Recent Developments in the Quantification and Visualization of Wear Traces’, *Association of Archaeological Wear and Residue Analysts Meeting*, Leiden, May 27-30, 2015 (with Adrian Evans, Jesuse Gonzalez, and Hugues Plisson).

2015 Conference Session Organizer: ‘Innovative Interpretive Approaches in Microwear and Residue Analysis’, *Society for American Archaeology Meeting*, San Francisco, April 15-19, 2015 (with Randolph Donahue and Adrian Evans).

- 2013 Conference Organizer: *Celebrating the Huron-Wendat Nation in Ontario: Exploring New Approaches to Learn about the Past*
In partnership with the Department of Anthropology and the University of Toronto Provost's office, organized a conference and scholar's meeting as part of the repatriation of Huron-Wendat ancestors. September 12-13, 2013.
- 2013 Conference Session Organizer: 'Novel Applications of Microscopy and Microanalysis', *Society for American Archaeology (SAA) Annual Meeting*, Honolulu, April 3-7, 2013 (with James Stemp, Adrian Evans, and Harry Lerner).
- 2012 Volunteer Coordinator: Organized volunteers for the *Society for Africanist Archaeologists Conference (SAfA)*. Toronto, University of Toronto, June 21-23, 2012.
- 2011 Conference Organizer: Student member of the organizing committee for *Theoretical Archaeology Group (TAG) Buffalo 2012*. Buffalo NY, University at Buffalo May 18-20, 2012.
- 2011 Conference Session Organizer: 'Canadian Perspectives on the Palaeolithic and Old World Prehistory, Parts I and II'. *American Anthropological Association Meeting*, Montreal QC, November 16-20, 2011 (with Jayne Wilkins).
- 2011 Conference Session Organizer: 'Standardization in Lithic Use- wear Analysis: How do We Get from There to Here?'. *Society for American Archaeology (SAA) Annual Meeting*, Sacramento CA, March 30-April 3, 2011 (with James Stemp, Adrian Evans, and Harry Lerner).
- 2010 Conference Chair: Anthropology chair for the *International Conference on Surface Metrology*. Worcester MA, Worcester Polytechnic Institute, October 25-27, 2010.
- 2010 Conference Organizer: *Between a Rock and a Hard Place: Graduate Student Lithic Symposium*. Toronto ON, University of Toronto February 24-25, 2010 (with Jayne Wilkins).
- 2007-2008 Editor: *vis-à-vis: explorations in anthropology*, University of Toronto Anthropology Graduate Student Journal (with Lesley Harrington).

COMMUNITY SERVICE

- 2022-2026 TU-Afghan Cultural Exchange Program (TU-ACE), weekly language and cultural program for TU students and Afghan youth
- 2021-2026 Refugee Cultural Orientation teaching for B'nai Emunah Refugee Resettlement Agency and Catholic Charities Refugee Resettlement Agency
- 2017 World Anthropology Day educational activities with True Blue Neighbors Youth Mentoring Program at Kendall-Whittier Elementary School, February 15.

- 2016 World Anthropology Day educational activities with True Blue Neighbors Youth Mentoring Program at Kendall-Whittier Elementary School, February 18.
- 2013 Lecture on Archaeology and Biological Anthropology for ‘Girls in Science’, an organization that engages girls aged 7-16 in science.

UNIVERSITY SERVICE

- 2024-2025 Assessment Committee, The University of Tulsa
- 2021-2023 TU Accreditation Criterion Team, The University of Tulsa
- 2021-2023 Director, Tulsa Undergraduate Research Challenge, College of Arts & Science, The University of Tulsa
- 2021 Strategic Plan Committee, Liberal Arts & Professional Studies Integration, The University of Tulsa
- 2020-2021 Board of Directors Student Success Committee (faculty representative), The University of Tulsa
- 2020-2021 University Graduate Council (including Graduate Curriculum subcommittee), The University of Tulsa
- 2020-2021 Land Acknowledgment Committee, The University of Tulsa
- 2020-2021 Diversity Training and Bias Response Team, The University of Tulsa
- 2020-2021 Student Conduct Board, The University of Tulsa
- 2020 A&S Research Award Committee, The University of Tulsa
- 2018-2020 College of Arts & Science Dean’s Executive Committee, The University of Tulsa
- 2018-2019 Provost Appointed Research Task Force, The University of Tulsa
- 2017-2021 Tulsa Undergraduate Research Challenge (TURC) Committee, The University of Tulsa
- 2017-2018 Faculty Senate, Elected Alternate Member, The University of Tulsa

DEPARTMENTAL SERVICE

- 2022-2024 Director of Graduate Studies, Department of Anthropology & Sociology, The University of Tulsa
- 2018-2024 Curriculum Committee, Department of Anthropology, The University of Tulsa (chair from 2018-2021)

2018	Undergraduate Program Review Committee, Department of Anthropology, The University of Tulsa
2016-2018	Assessment Committee, Department of Anthropology, The University of Tulsa
2016-2017	Self-Study Graduate Program Review Committee, Department of Anthropology, The University of Tulsa
2016	Curriculum Committee, Department of Anthropology, The University of Tulsa
2015-2017	Lambda Alpha Student Society Faculty Advisor, Department of Anthropology, The University of Tulsa
2008-2009	President, Anthropology Graduate Student Union, University of Toronto (with Lauren Norman).
2008-2009	Chair, Anthropology Graduate Student Union Constitution Committee, University of Toronto.
2007-2013	Group Coordinator, Lithics and Technology Interest Group, Archaeology Centre, University of Toronto (with Jayne Wilkins).
2006-2007	Colloquium Organizer, Department of Anthropology, University of Victoria

ACADEMIC ASSOCIATION MEMBERSHIPS

2012-present	Association of Archaeological Wear and Residue Analysts
2012-2016	Paleoanthropology Society
2011-2012	American Anthropological Association
2009-2011	Ontario Archaeological Society
2008-present	Society for American Archaeology
2008-present	Council for British Research in the Levant

Reviewer for: *Nature: Communications; Journal of Archaeological Science; Journal of Human Evolution; Journal of Field Archaeology; Journal of Anthropological Archaeology; Journal of Archaeological Science: Reports; Evolutionary Anthropology; Scientific Reports; Journal of Archaeological Method and Theory; Archaeometry; Journal of Paleolithic Archaeology; Journal of the Israel Prehistoric Society; Lithic Technology; South African Archaeological Bulletin; Quaternary International; Archaeological and Anthropological Sciences; and Scanning*

Grant reviewer for: *European Research Council (ERC); National Science Foundation (NSF); Social Science and Humanities Research Council of Canada (SSHRC); National Research Foundation (South Africa); Leakey Foundation.*

Awarded 2013 ‘Certificate of Excellence in Reviewing’ from the *Journal of Archaeological Science*