

**MATTHEW D. HOWLAND**

CURRICULUM VITAE

JANUARY 10, 2024

Department of Anthropology  
Wichita State University  
1845 Fairmount St.  
Wichita, Kansas 67260

216 N Dellrose Ave  
Wichita, KS 67208  
mdh5169@gmail.com

**POSITIONS**

Assistant Professor  
Department of Anthropology  
Wichita State University, Wichita, Kansas  
Fall 2023-Present

Post-Doctoral Research Associate  
Laboratory of Archaeology  
Department of Anthropology  
University of Georgia, Athens, Georgia  
Fall 2022-Fall 2023

Post-Doctoral Fellow  
Department of Archaeology and Ancient Near Eastern Cultures  
Tel Aviv University, Tel Aviv, Israel  
Fall 2021-Fall 2022

**EDUCATION**

Ph.D. in Anthropology (Archaeology)  
*Long-Distance Trade and Social Complexity in Iron Age Faynan, Jordan*  
Adviser: Prof. Thomas E. Levy  
University of California, San Diego, La Jolla, CA  
2021

M.A. in Anthropology (Archaeology)  
*Modeling Site Formation Processes with Low-altitude  
Aerial Photography, Structure from Motion, and GIS*  
University of California, San Diego, La Jolla, CA  
2014

B.S. with Honors in Archaeological Science  
Pennsylvania State University, State College, PA  
2012

B.A. with Honors in Classics and Ancient Mediterranean Studies  
Pennsylvania State University, State College, PA  
2012

## PUBLICATIONS

## REFEREED JOURNAL ARTICLES

**Howland, M.D.**, Tauхе, L., Gordin, S., Altaweel, M., Cych, B., and Ben-Yosef, E.

2023 Exploring geomagnetic variations in ancient Mesopotamia: Archaeomagnetic study of inscribed bricks from the 3rd–1st millennia BCE. *Proceedings of the National Academy of Sciences (PNAS)* 120(52): e2313361120.

**Howland, M.D.**, Tamberino, A., Liritzis, I., and Levy, T.E.

2022 Digital Deforestation: Comparing Automated Approaches to the Production of Digital Terrain Models (DTMs) in Agisoft Metashape. *Quaternary* 5(1): 5.

Burton, M., Quinn, P., Bennallack, K., Farahani, A., **Howland, M.D.**, Najjar, M., and Levy, T.E.

2021 Ceramic Technology at Wadi Fidan 61, an Early Pottery Neolithic Site (ca. 6500 B.C.E.) in the Faynan Region of Southern Jordan. *Journal of Archaeological Science: Reports*.

**Howland, M.D.**, Liss, B., Levy, T.E., and Najjar, M.

2020 Integrating Digital Datasets into Public Engagement through ArcGIS StoryMaps. *Advances in Archaeological Practice* 8(4): 351-360.

Liss, B., **Howland, M.D.**, Lorentzen, B., Smitheram, C., Najjar, M., & Levy, T. E.

2020 Up the Wadi: Development of an Iron Age Industrial Landscape in Faynan, Jordan. *Journal of Field Archaeology*: 1-15.

**Howland, M.D.**, Jones, I.W.N., Najjar, M., and Levy, T.E.

2018 Quantifying the Effects of Erosion on Archaeological Sites with Low-Altitude Aerial Photography, Structure from Motion, and GIS: A Case Study from Southern Jordan. *Journal of Archaeological Science* 90: 62-70.

Liss, B., **Howland, M.D.**, and Levy, T.E.

2017 Testing Google Earth Engine for the Automatic Identification and Vectorization of Archaeological Features: A Case Study from Faynan, Jordan. *Journal of Archaeological Science: Reports* 15: 299-304.

Sideris, A., Liritzis, I., Liss, B., **Howland, M.D.**, and Levy, T.E.

2017 At-Risk Cultural Heritage: New Excavations and Finds from the Mycenaean Site of Kastrouli, Phokis, Greece. *Mediterranean Archaeology and Archaeometry* 17/1: 271-285.

Levy, T.E., Najjar, M., Liss, B., **Howland, M.D.**, Smitheram, S., and Smith, N.

2016 Khirbat al-Jariya. *American Journal of Archaeology: Archaeology in Jordan Newsletter* 120(4): 654-655.

Liritzis, I., Pavlidis, G., Vosinakis, S., Koutsoudis, A., Volonakis, P., Petrochilos, N., **Howland, M.D.**, Liss, B., and Levy, T. E.

2016 Delphi4Delphi: First Results of the Digital Archaeology Initiative for Ancient Delphi, Greece. *Antiquity* 90/354: 1-6.

**Howland, M.D.**, F. Kuester, and T.E. Levy

2014 Structure from Motion: Twenty-First Century Field Recording with 3D Technology. *Near Eastern Archaeology* 77(3): 187-192.

**Howland, M.D.**, F. Kuester, and T.E. Levy

2014 Photogrammetry in the Field: Documenting, Recording, and Presenting Archaeology. *Mediterranean Archaeology and Archaeometry* 14(4): 101-108.

Levy, T.E., Vincent, M.L., **Howland, M.**, Kuester, F., and Smith, N.G.

2014 The Art of Implementing SfM for Reconstruction of Archaeological Sites in Greece: Preliminary Applications of Cyber-Archaeological Recording at Corinth. *Mediterranean Archaeology and Archaeometry* 14(4): 125-133.

Quartermaine, J., Olson, B.R., and **Howland, M.**

2013 Appendix B: Using Photogrammetry and Geographic Information Systems (GIS) to Draft Accurate Plans of Qazion. *Journal of Eastern Mediterranean Archaeology* 1/2: 169-174.

Levy, T., Tuttle, C., Vincent, M., **Howland, M.**, Richter, A., Petrovic, V. and Vanoni, D.

2013 The 2012 Petra Cyber-Archaeology Cultural Conservation Expedition: Temple of the Winged Lions and environs, Jordan. *Antiquity*.

#### BOOK CHAPTERS

**Howland, M.D.**, and Liss, B.

2023 Maps and Models: Applications of GIS and Image-Based Modeling to Field Archaeology in Faynan, Jordan. In *“And in Length of Days Understanding” (Job 12:12): Essays on Archaeology in the Eastern Mediterranean and Beyond in Honor of Thomas E. Levy*, (eds.) E. Ben-Yosef and I.W.N. Jones, pp. 1107-1132.

Stroth, L., Garvin Suero, A., Liss, B., **Howland, M.D.**, and D’Alpoim Guedes, J.

2023 Archaeological Evidence of Casual Snacking and Resource Provisioning at Khirbat al-Jariya (ca. Eleventh to Tenth Centuries BCE), an Iron-Age Copper Production Site. In *“And in Length of Days Understanding” (Job 12:12): Essays on Archaeology in the Eastern Mediterranean and Beyond in Honor of Thomas E. Levy*, (eds.) E. Ben-Yosef and I.W.N. Jones, pp. 1133-1154.

**Howland, M.D.**, and Levy, T.E.

2022 Cyber-Archaeology in Israel and Edom. In *The Ancient Israelite World*, (eds.) K.H. Keimer and G.A. Pierce.

**Howland, M.D.**

2018 3D Recording in the Field: Style Without Substance? In *Cyber-Archaeology and Grand Narratives: Digital Technology and Deep-Time Perspectives on Culture Change in the Middle East*, (eds.) T.E. Levy and I.W.N. Jones, pp. 19-34.

Levy, T.E., Sideris, T., **Howland, M.**, Liss, B., Tsokas, G., Stambolidis, A., Fikos, E., Vargemezis, G., Tsourlos, P., Georgopoulos, A., Papatheodorou, G., Garaga, M., Christodolou, D., Norris, R., Rivera-Collazo, I., and Liritzis, I.

2018 At-Risk World Heritage, Cyber, and Marine Archaeology: The Kastrouli–Antikyra Bay Land and Sea Project, Phokis, Greece. In *Cyber-Archaeology and Grand Narratives: Digital Technology and Deep-Time Perspectives on Culture Change in the Middle East*, (eds.) T.E. Levy and I.W.N. Jones, pp. 143-234.

Liritzis, I., Pavlidis, G., Vosinakis, S., Koutsoudis, A., Volonakis, P, **Howland, M.D.**, Liss, B., and Levy, T.E.

2017 Delphi4Delphi: Data Acquisition of Spatial Cultural Heritage Data for Ancient Delphi, Greece. In *Heritage and Archaeology in the Digital Age* (eds.) M. Vincent, V. M. L-M. Bendicho, M. Ioannides, and T.E. Levy, pp. 151-165.

#### CONFERENCE PROCEEDINGS

**Howland, M.D.**, Liss, B., Smitheram, C., Najjar, M., and Levy, T.E.

2015 GIS-Based Mapping of Archaeological Sites with Low-Altitude Aerial Photography and Structure from Motion: a Case Study from Southern Jordan. *2015 Digital Heritage International Congress 1*: 91-94.

Smith, N.G., **Howland, M.** and Levy, T.E.

2015 Digital archaeology field recording in the 4th dimension: ArchField C++ a 4D GIS for digital field work. In *2015 Digital Heritage* (Vol. 2, pp. 251-258). IEEE.

#### WEB-BASED PUBLICATIONS

*The Kingdom of Copper*, English version of StoryMap telling the story of Iron Age copper production in Faynan, Jordan.

<https://storymaps.arcgis.com/stories/b441a28ea5844d7bafbd47d3471166c9>

*The Kingdom of Copper*, Arabic version of StoryMap telling the story of Iron Age copper production in Faynan, Jordan.

<https://storymaps.arcgis.com/stories/fadfbc0c1ed447bb272eced3140f004>

Sketchfab page with many publicly-shared 3D models of artifacts and sites

<https://sketchfab.com/ELRAP/>

#### MEDIA AND OUTREACH

Ancient Inscribed Bricks Contain Evidence of Mysterious Magnetic 'Anomaly,' Scientists Find, *Vice*, December 18, 2023,

<https://www.vice.com/en/article/4a3pam/ancient-inscribed-bricks-contain-evidence-of-mysterious-magnetic-anomaly-scientists-find>

Babylonian bricks provide clues to ancient Earth's magnetic field, *The Hill*, December 18, 2023, <https://thehill.com/policy/equilibrium-sustainability/4365939-ancient-mesopotamia-bricks-earth-magnetic-field-dating-study/>

Mesopotamian bricks unveil the strength of Earth's ancient magnetic field, *Phys.org*, December 18, 2023, <https://phys.org/news/2023-12-mesopotamian-bricks-unveil-strength-earth.html>

Mesopotamian bricks unveil the strength of Earth's ancient magnetic field, *Science Magazine*, December 18, 2023, <https://scienmag.com/mesopotamian-bricks-unveil-the-strength-of-earths-ancient-magnetic-field/>

Digging into archaeological research through digital storytelling, *Esri ArcGIS Blog*, October 21, 2019, <https://www.esri.com/arcgis-blog/products/arcgis-storymaps/sharing-collaboration/digging-into-archaeological-research-through-digital-storytelling/>

## GRANTS, FELLOWSHIPS, AND AWARDS

National Park Service National Center for Preservation Technology and Training Grant <i>Prose to Parameters: ChatGPT and AI-Based Language Models for Producing Analytical Code for GIS Analysis in Archeology</i> \$12,631	2023
University of Georgia Postdoctoral Scholar Travel Program \$1,000	2023
AIA-NEH Grant For Post-Fieldwork Research And Publication: <i>Choose Your Own Archaeology: Non-Linear, User-Driven Storytelling in 3D at Faynan, Jordan</i> \$10,518	2023
ASOR Joy Ungerleider Poster Award <i>Digitally Cleaning the Section: Using Archived Photographs to Reconstruct Stratigraphic Sections in Faynan, Jordan</i> Brady Liss, Matthew D. Howland, Anthony Tamberino, Mohammad Najjar, and Thomas E. Levy	2022
F.G. Bailey Fellowship Program <i>Long Distance Trade and Social Complexity in Iron Age Jordan</i> \$4,000	2018

UC San Diego Winter GSA Travel Grant \$500	2019
UC San Diego Winter GSA Travel Grant \$500	2018
American Institute of Archaeology Orange County Chapter Annual Grant: <i>Comprehensive Analysis of Archaeological Ceramics from Southern Jordan</i> \$2,000	2018
National Science Foundation Integrative Graduate Education and Research Traineeship Minigrant <i>Training and Study of Archaeological Ceramics from southern Jordan through Petrological and Petrographic Analysis</i> \$3,450.	2015 – 2016
National Science Foundation Integrative Graduate Education and Research Traineeship	2014 – 2016
Schreyer Honors College Academic Excellence Scholarship Pennsylvania State University	2008 – 2012

#### INVITED LECTURES, PAPERS, AND WORKSHOPS

<i>Cyber-Archaeology and Public-Oriented Dissemination: Non-Linear Archaeological Storytelling in 3D in Iron Age Faynan, Jordan</i> <b>Matthew D. Howland</b> and Brady Liss ASOR Annual Meeting	2023
<i>For Whom the Model Loads: Digital Public Archaeology and the Digital Divide</i> <b>Matthew D. Howland</b> Digital Ethics in Ancient Near Eastern Research – Workshop ASOR Annual Meeting	2023
<i>Waterworld: Modeling the Impacts of Sea Level Rise and Storm Surge on Coastal Archaeological Sites</i> Invited by the Archaeological Association of South Central Kansas	2023
<i>What is Archaeology?</i> <b>Matthew D. Howland</b>	

Invited by the Wichita State Department of Anthropology 2023

*3D in Archaeology*

**Matthew D. Howland**

Invited by the University of Georgia Laboratory of Archaeology 2023

*Multiscalar Approaches to the Spatial Analysis of Heritage Risk*

**Matthew D. Howland**

Invited by the Wichita State Department of Anthropology 2023

*Archaeological Storytelling as Non-Linear Narrative using 3D  
Excavation Data*

**Matthew D. Howland**, Brady Liss, Mohammad Najjar, Thomas E. Levy

Digging Up Data: A Showcase of Ongoing Digital Scholarship Projects -  
Workshop

ASOR Annual Meeting (Boston, MA/Virtual) 2022

*Digital Deforestation: DTM Generation with Agisoft Photoscan*

Towards A Standardization Of Photogrammetric Methods In

Archaeology: A Conversation About 'Best Practices' In An

Emerging Methodology - Symposium

**Matthew D. Howland**

Annual Meeting of the Society for American Archaeology 2019

*Kings, Copper, and Clay: Reconstructing the Copper Trade of the Biblical  
Kingdoms through Ceramic Analysis*

**Matthew D. Howland**

Orange County Chapter of the American Institute of Archaeology 2019

*Investigating the Social Dynamics of Iron Age Copper Production:*

*Preliminary Results from New Excavations at Khirbat al-Jariya, Jordan*

**Matthew D. Howland**, Brady Liss, Craig Smitheram,

Mohammad Najjar, and Thomas E. Levy

Annual Meeting of the Society for American Archaeology 2015

*Low-altitude Photography and Structure from Motion*

**Matthew D. Howland**

Inaugural conference on Virtual Archaeology:

Museums and Cultural Tourism 2014

#### CONFERENCE AND WORKSHOP PAPER PRESENTATIONS

*"The Miracle City": GIS-based Analysis of Shovel Test Pits at Planeview,  
Wichita, Kansas*

**Matthew D. Howland** and Crystal A. Dozier

Annual Meeting of the Plains Anthropological Society 2023

*Modeling the Impact of Anthropogenic Sea-Level Rise and Storm Surge on Coastal Archaeological Sites*

**Matthew D. Howland** and Victor D. Thompson

Annual Meeting of the Society for American Archaeology 2023

*Shifting Seas: GIS-Based Approaches to Understanding Sea-Level Change in Georgia*

**Matthew D. Howland** and Victor D. Thompson

Annual Meeting of the Society for Georgia Archaeology 2023

*Loess is More: Social Complexity Through the Lens of the Petrographic Microscope at Khirbat al-Jariya, Jordan*

**Matthew D. Howland**, Mohammad Najjar, and Thomas E. Levy

ASOR Annual Meeting 2021

*Using Spatial Storytelling Platforms for Public Archaeology, Open Data, and Scholarly Publishing*

**Matthew D. Howland**, Brady Liss, Mohammad Najjar, and Thomas E. Levy

Annual Meeting of the International Conference on Computer Applications and Quantitative Methods in Archaeology (CAA) 2021

*Integrating Digital Datasets into Public Engagement through ArcGIS StoryMaps*

**Matthew D. Howland**, Brady Liss, Mohammad Najjar, and Thomas E. Levy

Annual Meeting of the Society for American Archaeology 2021

*A Preliminary Report on Iron Age Ceramic and Chronological Evidence from Khirbat al-Jariya, Jordan*

**Matthew D. Howland**, Brady Liss, Mohammad Najjar, and Thomas E. Levy

ASOR Annual Meeting 2020

*The Garden of Edom: Woodland Use, Landscape Management, and the Iron Age Copper Industry at Faynan, Jordan*

Brita Lorentzen, Brady Liss, **Matthew D. Howland**,

Mohammad Najjar, and Thomas E. Levy

ASOR Annual Meeting 2019

*Testing Google Earth Engine for Remote Sensing in Archaeology: Case Studies from Jordan*

Brady Liss, **Matthew D. Howland**, and Thomas E. Levy

Annual Meeting of the Society for American Archaeology 2018

*Running on Autopilot: Testing Google Earth Engine for the Automatic Identification of Archaeological Features in Satellite Imagery*



- Brady Liss, **Matthew D. Howland**, and Thomas E. Levy  
Annual Meeting of the International Conference on Computer  
Applications and Quantitative Methods in Archaeology (CAA) 2017
- Helicopters and Balloons: The Importance of Data-Capture Strategies  
in Mapping with LAAP and SfM*  
**Matthew D. Howland**, Mohammad Najjar, and Thomas E. Levy  
Eighth World Archaeology Congress 2016
- O.M.G(EE): Exploring the Application of Google Earth Engine (GEE)  
for Archaeology*  
Brady Liss, **Matthew D. Howland**, and Thomas E. Levy  
Eighth World Archaeology Congress 2016
- After the Late Bronze Age Collapse – Economic Opportunism  
in the Faynan, Jordan*  
Thomas E. Levy, Mohammad Najjar, **Matthew D. Howland**,  
Brady Liss, and Craig Smitheram  
13th International Conference on the History and Archaeology of Jordan 2016
- Renewed Excavations at Khirbat al-Jariya: Investigating the  
Metallurgical Narrative of an Iron Age Smelting Site in Faynan, Jordan*  
Brady Liss, **Matthew D. Howland**, Craig Smitheram,  
Mohammad Najjar, and Thomas E. Levy  
ASOR Annual Meeting 2015
- Mapping with Low-Altitude Photography and Structure from Motion: A  
Comparative Case Study from Faynan, Jordan*  
**Matthew D. Howland**, Mohammad Najjar, and Thomas E. Levy  
ASOR Annual Meeting 2015
- Modeling Site Formation Processes with Low-altitude  
Aerial Photography, Structure from Motion,  
and GIS: A Case Study from Southern Jordan*  
**Matthew D. Howland**  
Paper presented at ASOR Annual Meeting 2014
- Archaeological Survey and GIS-based Investigation  
into Site Formation Processes through Balloon  
Photography and Structure from Motion*  
**Matthew D. Howland**, Thomas E. Levy, and Falko Kuester  
Annual Meeting of the Society for American Archaeology 2014
- Ballooning at Petra: Utilizing Low-Altitude Aerial  
Photography and Structure-From-Motion*

*for Archaeological Conservation*

**Matthew D. Howland**

Paper presented at the Seventh World Archaeology Congress 2013

#### CONFERENCE AND WORKSHOP POSTER PRESENTATIONS

*Digitally Cleaning the Section: Using Archived Photographs to Reconstruct Stratigraphic Sections in Faynan, Jordan*  
(Joy Ungerleider Poster Award)

Brady Liss, **Matthew D. Howland**, Anthony Tamberino,  
Mohammad Najjar, and Thomas E. Levy

ASOR Annual Meeting 2022

*Archival Photogrammetry: Repurposing Excavation Photographs to 3D Model Previous Excavations in Faynan, Jordan*

Brady Liss, **Matthew D. Howland**, Anthony Tamberino,  
Scott McAvoy, and Thomas E. Levy

Annual Meeting of the Society for American Archaeology 2021

*Accessible Assemblages: Publishing Levantine Ceramics in 3D and in Context*

**Matthew D. Howland**, Mohammad Najjar, and Thomas E. Levy

ASOR Annual Meeting 2020

*"Send for water to 'Ain el-Gheweibeh": Copper Production and Provisioning the Regional Network of Iron Age Faynan, Jordan*

Brady Liss, **Matthew D. Howland**, Brita Lorentzen,  
Mohammad Najjar, and Thomas E. Levy

ASOR Annual Meeting 2020

*Archaeological Storytelling and Community Engagement via Story Maps*

**Matthew D. Howland**, Brady Liss, and Mohammad Najjar

ASOR Annual Meeting 2019

*At-Risk World Heritage and the Digital Humanities – Recent Destruction at Khirbat en-Nahas*

Thomas E. Levy, **Matthew D. Howland**,

Brady Liss, and, Mohammad Najjar

ASOR Annual Meeting 2019

*Everything Old is New Again: Using Archived Photography to 3-D Model Previous Excavations in Faynan, Jordan*

Brady Liss, **Matthew D. Howland**, Anthony Tamberino, Scott McAvoy,  
Mohammad Najjar, and Thomas E. Levy

ASOR Annual Meeting 2019

- Analysis of the Paleobotanical Collection from Khirbat al-Jariya, an Early Copper Production Site in the Faynan, Jordan*  
 Jade d'Alpoim Guedes, Katrina Cantu, Clara Dawson, Shelby Jones Cervantes, Arianna Garvin, Brandon Gay, Isabel Hermsmeyer, **Matthew D. Howland**, Xiyuan Huang, Bridget Lawrence, Brady Liss, Sunyoung Park, Eric Rodriguez, Julianna Santillan-Goode, Sarah Sheridan, Luke Stroth, Isabell Villasana, Emma Villegas, Zhen Yu, and Thomas E. Levy  
 ASOR Annual Meeting 2019
- The archaeobotany of an early copper production site in the Faynan, Jordan*  
 Jade d'Alpoim Guedes, Katrina Cantu, Clara Dawson, Shelby Jones Cervantes, Arianna Garvin, Brandon Gay, Isabel Hermsmeyer, **Matthew D. Howland**, Xiyuan Huang, Bridget Lawrence, Brady Liss, Sunyoung Park, Eric Rodriguez, Julianna Santillan-Goode, Sarah Sheridan, Luke Stroth, Isabell Villasana, Emma Villegas, Zhen Yu, and Thomas E. Levy  
 Annual Meeting of the Society for Ethnobotany 2019
- Digital Deforestation: DTM Generation with Agisoft Photoscan*  
**Matthew D. Howland** and Thomas E. Levy  
 Annual Meeting of the Society for American Archaeology 2018
- Developing a Standardized Workflow for Digital Preservation and Analysis of Archaeological Ceramics*  
**Matthew D. Howland**, Mohammad Najjar, and Thomas E. Levy  
 Poster presented at ASOR Annual Meeting 2017
- Erosion and Longue Durée 3D Modeling of Wadi Fidan 61, A Late Neolithic Site in Southern Jordan*  
 Kathleen Bennallack, **Matthew D. Howland**, Isabel Rivera-Collazo, Mohammad Najjar, and Thomas E. Levy  
 Poster presented at ASOR Annual Meeting 2017
- Go Big, and Stay Home: Testing Google Earth Engine for Satellite Imagery Analysis on a Regional Scale in the Southern Levant*  
 Brady Liss, **Matthew D. Howland**, and Thomas E. Levy  
 Poster presented at ASOR Annual Meeting 2017
- Land and Sea Connections through Marine Geoarchaeology and Geo-spatial Databases: Landscapes, Human Activity, and Sediment Profiles in Antikyra Bay, Greece*  
 Isabel C. Rivera-Collazo, Richard Norris, George Papatheodorou, Ioannis Liritzis, Maria Garaga, **Matthew D. Howland**, Brady Liss, and Thomas E. Levy  
 Poster presented at ASOR Annual Meeting 2017

*3D Printing for Cultural Heritage Preservation and Education*  
 Anthony Tamberino, Scott McAvoy, **Matthew D. Howland**, Brady Liss,  
 Kathleen C. Bennallack, and Thomas E. Levy  
 ASOR Annual Meeting 2017

*Developing a Standardized Workflow for Digital Preservation and  
 Analysis of Archaeological Ceramics*  
**Matthew D. Howland**  
 45th Computer Applications and Quantitative Methods  
 in Archaeology (CAA) international conference 2017

*Archaeological formation processes in 3D: Quantifying the effects of  
 erosion on archaeological sites with low-altitude aerial photography,  
 structure from motion, and GIS in Southern Jordan*  
**Matthew D. Howland**  
 Modeling Culture: 3D Archaeology and the Future of the Past Conference 2016

*GIS Modelling of Ancient Pollution from the  
 Faynan Valley, Southern Jordan*  
 Kyle Knabb and **Matthew D. Howland**  
 Poster presented at ASOR Annual Meeting 2014

*Preliminary Results from 2014 Excavations at Khirbat al-Jariya, Jordan*  
 Brady Liss, **Matthew D. Howland**, Craig Smitheram, Mohammad  
 Najjar, and Thomas E. Levy  
 Poster presented at ASOR Annual Meeting 2014

*DEM and Orthophoto Production Through Balloon Photography and  
 Structure from Motion*  
**Matthew D. Howland**, Mohammad Najjar, and Thomas E. Levy  
 Poster presented at ASOR Annual Meeting 2013

#### CONFERENCE SESSIONS CHAIRED

*(Re)Visiting the Past in the Present: Monuments in Place – Workshop*  
 Morag M. Kersel and **Matthew D. Howland**  
 ASOR Annual Meeting, Chicago, IL 2023

*Digital Archaeology and History (Three Sessions)*  
 Tiffany Earley-Spadoni and **Matthew D. Howland**  
 ASOR Annual Meeting, Chicago, IL 2023

*Digital Archaeology and History (Three Sessions)*  
 Tiffany Earley-Spadoni and **Matthew D. Howland**  
 ASOR Annual Meeting, Boston, MA 2022

*Digital Archaeology and History (Two Sessions)*  
 Tiffany Earley-Spadoni and **Matthew D. Howland**  
 ASOR Annual Meeting, Virtual

2022

**TEACHING EXPERIENCE**

Instructor of Record  
 WSU Anthropology 664: Spatial Project in Anthropology

Fall 2023

Instructor of Record  
 WSU Anthropology 305: World Archaeology

Fall 2023

Instructor of Record  
 WSU Anthropology 103: Intro to Archaeology

Fall 2023

Instructor of Record  
 WSU Anthropology 102: Cultural Anthropology

Fall 2023

Instructor of Record  
 WSU Anthropology 305: World Archaeology

Fall 2023

Associate-In/Instructor of Record  
 UCSD Anthropological Archaeology 104: Intro to GIS for  
 Archaeologists and Anthropologists

Spring 2021

Teaching Assistant  
 UCSD Muir College Writing Program 50: Pre-Existing Conditions:  
 Anti-Blackness in the Medical Industrial Complex

Winter 2021

Teaching Assistant  
 UCSD Muir College Writing Program 40: Critical Writing

Fall 2020

Teaching Assistant  
 UCSD Sociocultural Anthropology 166: Film and Culture in Asia

Summer 2020

Teaching Assistant  
 UCSD Anthropology 23: Debating Multiculturalism

Spring 2020

Associate-In/Instructor of Record  
 UCSD Anthropological Archaeology 104: Intro to GIS for  
 Archaeologists and Anthropologists

Winter 2020

Teaching Assistant  
 UCSD Anthropology 23: Debating Multiculturalism

Fall 2019

Associate-In/Instructor of Record UCSD Anthropological Archaeology 104: Intro to GIS for Archaeologists and Anthropologists	Spring 2019
Teaching Assistant UCSD Anthropology 23: Debating Multiculturalism	Fall 2018-Winter 2019
Teaching Assistant UCSD Muir College Writing Program 40: Critical Writing	Fall 2017-Spring 2018
GIS Instructor DigArch16 Summer School	Summer 2016
Teaching Assistant UCSD Anthropology 21: Race and Racisms	Winter 2017
Teaching Assistant UCSD Anthropology 101: Foundations of Social Complexity	Fall 2016
Teaching Assistant UCSD Anthropology 23: Debating Multiculturalism	Spring 2016
Teaching Assistant UCSD Anthropology 21: Race and Racisms	Winter 2016
Teaching Assistant UCSD Anthropology 101: Foundations of Social Complexity	Fall 2015

**FIELD AND LAB EXPERIENCE**

Enfulletv-Mocvse ("New Ways" in Muskogean) in Archaeology Field School Director Victor D. Thompson and Carey Garland Staff Supervised, low-altitude aerial photography, and recording systems	Summer 2023
ASOR/Open Context Digging Up Data: Turning an Idea into Digital Scholarship Program Participant	2021
Archaeomagnetic Dating of Mesopotamian Mudbricks Project Director Collected samples of Mudbricks from Sulaimaniyah Museum and Yale Babylonian Collection	Summer 2021

Kastrouli Archaeological Project Directors Ioannis Liritzis and Thomas E. Levy Staff Supervised excavation area, site mapping, low-altitude aerial photography, and recording systems	Summer 2016
British School at Athens Ceramic Petrology Course Student Studied geology, ceramic manufacture and technology, and petrological analysis of rock and ceramics	Summer 2016
Edom Lowlands Regional Archaeology Project Directors Thomas E. Levy and Mohammad Najjar Staff Supervised excavation area, site mapping, low-altitude aerial photography, and 3D recording systems	Fall 2012 – Present
Tel Akko Total Archaeology Project Directors Ann E. Killebrew and Michal Artzy Staff Supervised site mapping and 3D recording systems. Directed site survey. GIS Specialist.	2010- 2012
Tel Akko Total Archaeology Project Directors Ann E. Killebrew and Michal Artzy Student Excavation experience	2009
Penn State Archaeological Field School Director Claire Milner Student Excavation experience, training in square supervision, survey techniques	2009

**ARTICLE REVIEWS**

Journal of Field Archaeology  
Digital  
Remote Sensing  
Journal of Archaeological Science: Reports

**LANGUAGES**

English – Native language  
French – Speak and read proficiently  
Arabic – Speak and read at intermediate level  
Hebrew – Speak and read at basic level

**MEMBERSHIPS**

Society of American Archaeology  
CAA  
ASOR

**CERTIFICATIONS**

Federal Aviation Administration Part 107 Small Unmanned Aircraft System Operator