

# Dr. Matthew V. Kroot

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## Education

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PhD	2014	Anthropology	University of Michigan, Ann Arbor, MI, USA
MA	2008	Anthropology	University of Michigan, Ann Arbor, MI, USA
BA	2003	Anthropology	Johns Hopkins University, Baltimore, MD, USA

## Academic Employment

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2021-Pres.	Assistant Professor, School of Human Evolution and Social Change, Arizona State University, Tempe, AZ, USA.
2020-21	Assistant Professor, Department of Anthropology, Santa Clara University, Santa Clara, CA, USA.
2018-20	Adjunct Lecturer, Department of Anthropology and Community Heritage Lab, Santa Clara University, Santa Clara, CA, USA.
2016-18	Adjunct Lecturer, Department of Anthropology, Santa Clara University, Santa Clara, CA, USA.
2014-16	Visiting Assistant Professor, Department of Anthropology, Skidmore College, Saratoga Springs, NY, USA.
2013-14	Lecturer, Department of Anthropology, Skidmore College, Saratoga Springs, NY, USA

## Publications & Other Scholarly Products

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### *Research publications*

#### Accepted

#### 4. Kroot, Matthew V.

Pathways Forward for an Engaged Archaeology of Africa's Deep Past.  
*Archaeologies*.

#### 3. Kroot, Matthew V., Matthew A. Peeples, Laurene Montero, and Lindsey Vogel-Teeter. Developing the Arizona State University Field School Program at S'edav Va'aki Museum. Submitted to the *Journal of Arizona Archaeology*.

#### 2. Kroot, Matthew V.

Preliminary Results from Pre-Pottery Neolithic B al-Khayran.  
*Annual of the Department of Antiquities of Jordan*.

1. Arellano, Monica V., Andrew Galvan, Sheila Guzman, **Matthew V. Kroot**, Amy J. Lueck, Charlene Nijmeh, Lee Panich, Desiree Vigil.  
Beyond Collaboration: The importance of strong and meaningful relationships for Indigenous political action. *Critical Mission Studies Handbook*. Eds. Chavez, Yves; Jonathan Cordero; Ross Frank; Jennifer Hughes; Valentin Lopez; Reyna Ramirez; Stan Rodriguez; Charlene Villaseñor-Black. Under contract and submitted with University of California Press.

### **Published**

#### **11. Kroot, Matthew V.**

**2025** Home Economics at Middle Pre-Pottery Neolithic B al-Khayran in West-Central Jordan: Reconstructing residential unit economic and mobility behavior through lithic analysis. *Journal of Field Archaeology*. 50(6): 495-509.

10. Ruth A., SturtzSreetharan, C., Beresford, M., Brewis, A., BurnSilver, S., Caseldine, C.R., Estrada, E., Hruschka, D., Jehn, M., Ilboudo Nébié, E., Knudson, K.J., **Kroot, M.V.**, Maupin, J., Michelaki, K., Morehart, C, Nelson, R.G., Drummond Otten, C., Peeples, M.A., Ranhorn, K.L., Smith, M.E., Stojanowski, C.M., Wutich, A., and York, A.

**2025** Online Student Engagement in Social Science Research Laboratories: Expert Advice on the Opportunities and Challenges. *Scholarship and Practice of Undergraduate Research (SPUR)* 8(4): 31-38.

#### **9. Kroot, Matthew V.**

**2024** Accommodating Agriculture at al-Khayran: Economic relations and settlement practices in the earliest agricultural communities of the southern Levant. *Journal of Anthropological Archaeology* 75: 101606.

#### **8. Kroot, Matthew V.**

**2023** Al-Khayran: A Pre-Pottery Neolithic B site in the west-central Jordanian highlands. *Neo-Lithics: The Newsletter of Southwest Asian Neolithic Research* 23: 3-13.

7. Lueck, Amy, **Matthew V. Kroot**, and Lee Panich

**2022** Public Memory as Community-Engaged Writing: Composing Difficult Histories on Campus. *Community Literacy Journal* 15(2): 9-30.

#### **6. Kroot, Matthew V. and Lee Panich**

**2020** Students are Stakeholders in Campus Archaeology. *Advances in Archaeological Practice* 8(2): 134-150.

#### **5. Kroot, Matthew V., Cameron Gokee, and Camille Machiels**

**2019** Yoro Moussou: A Malinke fortified site in southeastern Senegal. *Nyame Akuma* No. 91: 23-29.

#### **4. Kroot, Matthew V. and Cameron Gokee**

**2018** Histories and Material Manifestations of Slavery in the Upper Gambia River Region: Preliminary results of the Bandafassi Regional Archaeological Project. *Journal of African Diaspora Archaeology and Heritage* 7(2): 74-104.

3. Gokee, Cameron; **Matthew V. Kroot**, Aime Kantoussan, Adama Athie, Djiby Tamba, and Massar Sarr.

**2015** Le paysage historique de la Haute-Gambie: Résultats des reconnaissances archéologiques en 2013 et 2015. *Nyame Akuma* (84): 27-40.

**2. Kroot, Matthew V.**

**2012** Al-Khayran, in “Archaeology in Jordan, 2010 and 2011 Seasons.” Keller, Donald R. et al. *American Journal of Archaeology* 116(4): 722-723.

1. Makarewicz, Cheryl A.; Nathan B. Goodale, Philipp Rassmann, Chantel White, Holly Miller, Jihad Haroun, Eric Carlson, Alexis Pantos, **Matt Kroot**, Seiji Kadowaki, Aksel Casson, James T. Williams, Anne E. Austin, and Benjamin Fabre.

**2006** El-Hemmeh: A multi-period Pre-Pottery Neolithic site in the Wadi el-Hasa, Jordan. *Journal of Eurasian Prehistory* 4(2):177-213.

***Invited book reviews***

**1. Kroot, Matthew V.**

**2019** “Review of Reluctant Landscapes by François Richard.” *African Archaeological Review* 36(4): 555-557.

***Public-facing community collaborative products***

2. Arellano, Monica V.; Gloria E. Arellano-Gomez; Teresa Contino; Bates Detweiler; CJ Gabbe; Andrew Galvan; Sheila Guzman; **Matthew V. Kroot**; Amy J. Lueck; Charlene Nijmeh; Lee Panich; Greta Seitz; Desiree Vigil; Danny Walsh.

**2022** [Ohlone Heritage Hub](#).

1. Arellano, Monica V.; Gloria E. Arellano-Gomez; Andrew Galvan; Sheila Guzman; James Irwin; Alan Leventhal; **Matthew V. Kroot**; Amy J. Lueck; Charlene Nijmeh; Lee Panich; Desiree Vigil.

**2021** [SCU Native History Tour](#).

**Principal Investigator: External Funding**

<b>2023</b>	AZ Humanities, Mini Grant	\$2,000
<b>2019-2022</b>	Critical Mission Studies, Community Partnership Grant	\$9,851
<b>2009-2010</b>	American Center of Research, CAORC Fellowship	\$21,820
<b>2009-2010</b>	Wenner-Gren Foundation, Doctoral Dissertation Grant	\$15,000
<b>2009</b>	US Dept. of Education, Foreign Language & Area Studies Fellow	\$6,500
<b>2006-2007</b>	National Geographic Society, Level I Grant	\$4,996

**Principal Investigator: Competitive Internal Funding**

<b>2021</b>	SCU, College of Arts & Sci., Teaching & Tech. Innovation Grant	\$2,300
<b>2019</b>	SCU Markkula Center for Applied Ethics, Hackworth Fellowship	\$1,800
<b>2019</b>	SCU Center for Arts & Humanities, Fellow	\$5,500
<b>2021</b>	SCU, College of Arts & Sci., Teaching & Tech. Innovation Grant	\$2,300
<b>2015</b>	Skidmore College, Faculty Development Grant	\$1,530
<b>2014</b>	Skidmore College, Faculty/Student Research	\$1,000
<b>2009-2010</b>	UM Rackham Graduate School, Candidate Funding	\$3,000
<b>2006-2007</b>	UM Rackham Graduate School, Pre-Candidate Funding	\$1,500
<b>2006-2007</b>	UM International Institute, International Research Grant	\$2,500

**Archaeological Field Projects**

<b>2023-Pres.</b>	Co-Director, ASU Field Practicum in Archaeo.	<i>Phoenix, AZ</i>
<b>2019</b>	Co-Director, Silicon Valley Comm. Archaeo. Proj.	<i>Santa Clara, CA</i>
<b>2015-2016</b>	Co-Director, Bandafassi Reg. Archaeo. Proj.	<i>Bandafassi, Senegal</i>
<b>2007-2010</b>	Director, 'Assal-Dhra' Archaeo. Proj.	<i>Mauta, Jordan</i>
<b>2006-2008</b>	Crew Chief, Homol'ovi Research Proj.	<i>Winslow, AZ</i>
<b>2004-2005</b>	Trench Supervisor, Dhra' Archaeo. Proj.	<i>Mazra, Jordan</i>
<b>2004</b>	Trench Supervisor, Kazane Hoyuk	<i>Sanliurfa, Turkey</i>
<b>2004</b>	Excavator, el-Hemmeh	<i>Wadi el-Hesa, Jordan</i>
<b>2002</b>	Trench Supervisor, Tell Umm el-Marra	<i>Umm el-Marra, Syria</i>
<b>2001</b>	Student Excavator, Eastern Mimbres Archaeo. Proj.	<i>Caballo, NM</i>

**Other Professional Activities & Affiliations**

<b>2023</b>	ASM Approval: Project Director for Arizona Antiquities Act Permits
<b>2020-2023</b>	Participant, NEH Digital Proj. for the Public: (Re)Membering Mission History
<b>2019-Pres.</b>	Lithic Analyst: Bandafassi Regional Archaeology Project
<b>2019</b>	Co-Principal Investigator: Santa Clara University Community Heritage Survey
<b>2018-2021</b>	Co-Supervisor: Santa Clara University, Community Heritage Lab
<b>2018-2021</b>	Partner: University of California, Berkeley, Archaeological Research Facility
<b>2003-2005</b>	Archaeologist: Brian F. Smith & Associates
<b>2003</b>	Field Technician: URS Corps.
<b>2003</b>	Intern, Smithsonian National Museum of Natural History Archaeozoology Lab
<b>2002-2003</b>	Intern, Johns Hopkins Archaeology Museum
<b>2001-2003</b>	Volunteer, Presidio of San Francisco Archaeology Lab

**2000** Intern, California Historical Society Research Collection & Library

### **Presentations & Conference Organizing**

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#### *Conference and Symposium Organizing*

3. **2023.** Organizer. “Creating Community for Indigenous Heritage Futures” Speaker Series. S’edav Va’aki Museum & Arizona State University. Phoenix & Tempe, AZ.
2. **2021.** Conference Co-Organizer: 48<sup>th</sup> Annual Western State Anthropology and Sociology Undergraduate Research Conference. Online.
1. **2016.** Conference Co-Organizer: Annual Meeting, Northeastern Anthropological Association. Saratoga Springs, NY.

#### *Sessions Organized*

4. **2024.** Poster Session Co-Organizer. “Training a New Generation of Heritage Professionals in the Valley of the Sun: The ASU field school at S’edav Va’aki.” Annual Meeting, Society for American Archaeology. New Orleans, LA.
3. **2023.** Session Co-Chair. “Savoir-Faire: Continuités et persistances des comportements du Middle Stone Age et Later Stone Age en Afrique de l’Ouest.” Biennial Meeting, West African Archaeological Association. Dakar, Senegal.
2. **2021.** Session Chair. “Historical and Cultural Understandings of Society.” 48<sup>th</sup> Annual Western State Anthropology and Sociology Undergraduate Research Conference. Online.
1. **2016.** Session Organizer. “Recent Research in the Archaeology of Native Communities of the Northeast.” Annual Meeting, Northeastern Anthropological Association. Saratoga Springs, NY.

#### *Invited Presentations and Talks*

21. **2025.** Peebles, Matthew A. and **Matthew V. Kroot** “An Overview of Recent Work by the ASU Archaeological Field School at S’edav Va’aki.” Museum After Dark Series, S’edav Va’aki Museum, Phoenix, AZ.
20. **2025.** Ruth, Alissa, Michael E. Smith, Kostalena Michelaki, Christopher Caseldine, and **Matthew V. Kroot**. “The Archaeology Research Laboratory: A Site for Increased Access to Student Training.” Annual Meeting, Society for American Archaeology. Denver, CO.
19. **2025.** **Kroot, Matthew V.** “Erasing History to Save It: Archaeology of the historical Portland Tract, Phoenix.” Arizona Archaeological Society (Phoenix Chapter), Phoenix, AZ.
18. **2024.** **Kroot, Matthew V.** “Erasing History to Save It: Archaeology of the historical Portland Tract, Phoenix.” Deer Valley Petroglyph Preserve, Phoenix, AZ.
17. **2024.** **Kroot, Matthew V.** “Changements de longue durée dans les économies lithiques.” Kédougou Sénégal: Remaking a West African Anthropological Region workshop, Dakar, Senegal.

16. 2023. **Kroot, Matthew V.**, John K. Murray, Derek Henry, Sarah Marie Koneki-Brazeal, Ryan Meinhart, Chiara Umbriano, and Cameron D. Gokee. "Long-Term Changes in Knapped Stone Economies: Results of the Bandafassi Regional Archaeological Project survey." Biennial Meeting, West African Archaeological Association. Dakar, Senegal.
15. 2023. **Kroot, Matthew V.** "Making Stone Tools Across the Millennia: Results from the Bandafassi Regional Archaeological Project survey in southeastern Senegal." Archaeological Institute of America, Central Arizona Society. Tempe, AZ.
14. 2022. **Kroot, Matthew V.** "Context Matters? What drives participation in community-based heritage work?" Deep History and Community Joy Symposium, Online.
13. 2021. **Kroot, Matthew V.** and Lee M. Panich. "Increasing the Scales of Stakeholder Participation: Public archaeology, community-based participatory research, and pedagogy at Mission Santa Clara." Annual Meeting, Society for California Archaeology. Online.
12. 2019. **Kroot, Matthew V.** "Local Politics and Outside Entanglements in a West Africa Shatter Zone: The Bandafassi Regional Archaeological Project." Archaeology and Biological Anthropology Lecture Series, U. California, Santa Cruz.
11. 2019. **Kroot, Matthew V.** "Making Home by the Bay: Ohlone heritage at Filoli and beyond." Filoli Historic House & Gardens, Woodside, CA.
10. 2017. Keynote Address. Native American Senior Ceremony, Santa Clara U.
9. 2017. **Kroot, Matthew V.** "Property and Power in Prehistory: Case-studies from the Neolithic Middle East and Atlantic West Africa." Santa Clara U.
8. 2015. **Kroot, Matthew V.** "Archaeology and the Native American Past" Empire State College.
7. 2013. **Kroot, Matthew V.** "Property Rights and Subsistence Practices Across Neolithic Landscapes: The 'Assal-Dhra' Archaeological Project." International Open Workshop, Kiel U.
6. 2012. **Kroot, Matthew V.** "Changing Economic Relations and Subsistence Systems in Neolithic Jordan: Excavations at al-Khayran." Cotsen Institute, U.C.L.A.
5. 2011. **Kroot, Matthew V.** "Early Village Life Along the Dead Sea: the 'Assal-Dhra' Archaeological Project." Southern Methodist U.
4. 2010. **Kroot, Matthew V.** "Early Villages of the Southeastern Dead Sea Basin: the 'Assal-Dhra' Archaeological Project." American Center for Research. Amman, Jordan.
3. 2008. **Kroot, Matthew V.** "Early Villages of the Dead Sea Basin, Jordan." U. of Michigan.
2. 2008. **Kroot, Matthew V.** "Early Agricultural Villages of the Southeastern Jordan Rift Valley." U. of Washington.
1. 2008. **Kroot, Matthew V.** "Early Agricultural Villages of the Jordan Rift Valley." Duke U.

*Invited Panel and Discussion Contributions*

4. **2025.** Panelist. "Archaeological Education in the State of Arizona." Annual Meeting, Arizona Preservation Foundation. Phoenix, AZ.
3. **2020.** Panelist. "Careers for Archaeology Majors." Johns Hopkins U. Online.
2. **2020.** Panelist. "Site of Trauma, Sites of Memory." US Holocaust Memorial Museum Program, Santa Clara U.
1. **2018.** Discussant. "Engaging 'Alternate Archaeology' in Three Minutes or Less." Annual Meeting, Society for American Archaeology, Washington, DC.

*Invited Contributions: Audiovisual Media*

1. **2021.** Featured Expert. "Stakeholders' Values for Archaeology and Heritage in Silicon Valley." Produced by C. Sunseri. Plenary Session of the Annual Meeting of the Society for California Archaeology. Online and the Santa Cruz Archaeological Society Film Festival.

*Contributed Conference Presentations*

16. **2025. Kroot, Matthew V.** and Matt Peeples. "A New Non-Collection Methodology for Assessment of Twentieth-Century Sites: Results from S'edav Va'aki in Phoenix, Arizona." Annual Meeting, Society for American Archaeology. Denver, CO.
15. **2023. Kroot Matthew V.** and Cameron D. Gokee. "New Stone Age Sites in Bandafassi, Senegal." Biennial Meeting, Society of Africanist Archaeologists. Houston, TX.
14. **2023. Kroot, Matthew V.** "Home Economics at Pre-Pottery Neolithic B al-Khayran, Jordan?" Annual Meeting, Society for American Archaeology. Portland, OR.
13. **2021. Kroot, Matthew V.** Monica Arellano, Andrew Galvan, Sheila Guzman; Amy Lueck, Charlene Nijmeh, Lee Panich, and Desiree Vigil "Beyond Collaboration: The importance of long-term relationships for a critical mission studies." Critical Mission Studies Southern California Meeting. El Cajon, CA.
12. **2020. Kroot, Matthew V.,** Amy Lueck, and Lee Panich. "Digital Tour of Santa Clara University as Native Space." Digital Humanities for Social Justice in the Classroom. Online.
11. **2020. Kroot, Matthew V.,** Monica Arellano, Andrew Galvan, James Irwin, Alan Leventahl, Amy Lueck, Charlene Nijmeh, Lee Panich, and Desiree Vigil (2020) "Teaching Ohlone History, Changing Public Memory." Critical Mission Studies Conference. Online.
10. **2020.** Lueck, Amy J., Brian Beams, Tanya Chiykowski-Rathke, and **Matthew V. Kroot.** "Indigenous Collaborations on Digital Public Memory Work in the Classroom." Digital Humanities Conference. Online. \*Selected for the conference through a process of peer-review.

9. **2019.** Chiykowski-Rathke, Tanya and **Matthew V. Kroot.** “Digital Humanities for Community Heritage: Using Omeka with student researchers.” ATXpo, Santa Clara, CA.
8. **2017.** **Kroot, Matthew V.** “Back to Basics: Analysis knapped stone recovered during survey in southeastern Senegal.” Annual Meeting, Society for American Archaeology, Vancouver, Canada.
7. **2016.** **Kroot, Matthew V.** “Reinterpreting Winney’s Rift: Material culture, language, and ethnogenesis outside of Iroquoia.” Annual Meeting, Society for American Archaeology, Orlando, FL.
6. **2016.** Gokee, Cameron and **Matthew V. Kroot.** “Relocate, Aggregate, or Fortify? Exploring Local Responses to Atlantic Era Entanglement in Southeastern Senegal.” Society for Africanist Archaeology Invited Symposium, Annual Meeting, Society for American Archaeology, Orlando, FL.
5. **2015.** **Kroot, Matthew V.** “Understanding the Temporal Patterns of Occupation at Small Sites: The case of Early Neolithic al-Khayran, west-central Jordan.” Annual Meeting, Society for American Archaeology, San Francisco, CA.
4. **2014.** **Kroot, Matthew V.** “The Biggest Little Site in West-Central Jordan: Intensive investigation at the small site of al-Khayran.” Annual Meeting, American Anthropological Association, Washington, DC.
3. **2012.** **Kroot, Matthew V.** “The Fruits of the Earth Belong Equally to Us All? Crossing from Communal to Household Land Tenure in the Neolithic of Jordan.” Annual Meeting, American Anthropological Association, San Francisco, CA.
2. **2011.** **Kroot, Matthew V.** “Al-Khayran and Neolithic Subsistence Systems in West-Central Jordan.” Annual Meeting, American Anthropological Association, Montreal, QC, Canada.
1. **2010.** White, Chantel, **Matthew V. Kroot,** and Eliza Wallace. “Early Village Life Along the Dead Sea: structures and processes of neolithization.” Annual Meeting, American Anthropological Association, New Orleans, LA.

#### *Contributed Conference Posters*

6. **2024.** **Kroot, Matthew V.,** Matt Peeples, and Jessie Kortscheff. “The Benefits, Challenges, and Student Outcomes of an Academic-Governmental Collaboration for Local Undergraduate Field Training in Archaeology.” Annual Meeting, Society for American Archaeology, New Orleans, Louisiana.
5. **2024.** Peeples, Matt, Anthony Wende, and **Matthew V. Kroot.** “Using Unmanned Aerial Vehicle (UAV) Photography to Develop Preservation and Management Plans at S’edav Va’aki, Arizona.” Annual Meeting, Society for American Archaeology, New Orleans, Louisiana.
4. **2024.** Umbriano, Chiara, Matt Peeples, and **Matthew V. Kroot.** “Assessing the Viability of Limited Collection and In-Field Analysis Strategies for Ceramic Investigations at S’edav Va’aki, Arizona.” Annual Meeting, Society for American Archaeology, New Orleans, Louisiana.



3. **2024.** Ptacek, Alexandra, Matt Peeples, **Matthew V. Kroot**, Eunice Villaseñor Iribé, and Jessie Kortscheff. "Challenges of Community-Based Heritage Work: Rights holders stakeholders, and the palimpsest nature of the archaeological record." Annual Meeting, Society for American Archaeology, New Orleans, Louisiana.
2. **2019.** **Kroot, Matthew V.**, Amy Lueck, and Lee M. Panich. "Recent Development in Campus Archaeology at Santa Clara University." Annual Meeting, Society for California Archaeology. Sacramento, CA.
1. **2008.** **Kroot, Matthew V.** "The Prepottery Neolithic A of the Dead Sea Basin." Annual Meeting, Society for American Archaeology, Vancouver, Canada.

## **Teaching & Mentoring**

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### **ASU Courses Taught**

#### *Graduate Field Course*

1. ASM 583: Fieldwork **Sp 2023; Sp 2025**

#### *Undergraduate Field Course*

1. ASM 338: Anthropological Field Session **Sp 2023; Sp 2025**  
**Recognition:** SHESC Innovation in Undergraduate Teaching

#### *Undergraduate In-Person*

1. ASB 222: *Buried Cities & Lost Tribes* **F 2023**
2. AFR/ASB 366: *African Archaeology* **F 2021; Sp 2024**
3. ASB 338: *Archaeology of North America* **F 2022; Fa 2024**

#### *Undergraduate Online*

1. ASB 222: *Buried Cities and Lost Tribes* **F 2022; Fa 2024**

### **ASU Curricular Development**

1. **2023.** Application for SB General Studies Designation. ASB 338: Archaeology of North American.
2. **2022- 2023.** Co-Developer. ASB 338/538: Archaeological Field Session in collaboration with the City of Phoenix Archaeologist.

### **Graduate Student Committees**

1. Member. Sydney James, SHESC **Ongoing**
2. Co-Chair. Babalola Jacobs, SHESC **Ongoing**
3. Member. Sarah-Marie Koneki Brazeal, Herberger Inst. for Design & the Arts **Ongoing**

## **Service Activities**

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### *Professional Service while at ASU*

1. **2025.** Reviewer: *Archaeologies* journal.
2. Reviewer: National Geographic Society  
**Aug 2023:** Reviewed 3 Level I Grants.  
**Jan 2023:** Reviewed 4 Level I Grants.  
**Jan 2022:** Reviewed 8 Level I Grants.

### *ASU Department Service*

1. **Spring 2025.** Search Committee Member, Tenure-Track Faculty Member.
2. **Spring 2025.** Chair. Reynold Ruppé Prize in Archaeology committee.
3. **Spring 2024.** Chair. Reynold Ruppé Prize in Archaeology committee.
4. **Spring 2023.** Committee Member. Reynold Ruppé Prize in Archaeology.
5. **Spring 2022.** Committee Member. Reynold Ruppé Prize in Archaeology.

### **Media Coverage**

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#### *Media coverage while at ASU*

#### **2024**

1. "[Shift from gathering to farming in ancient Khayran.](#)" By Saeb Rawashdeh. *Jordan Times*. 05 October 2024.
2. "[About Khayran's unique role in Pre-Pottery Neolithic settlement patterns.](#)" By Saeb Rawashdeb. *Jordan Times*. 30 September 2024.
3. "[10,000-year-old house reveals history of farmland ownership in Neolithic Middle East: ASU archaeologist directed excavation in Jordan.](#)" By Nicole Pomerantz. *ASU News*. 14 August 2024.