## SAROI Second Workshop: Final Schedule

## Dates: June 27th-July 1st 2022

## Location: Center for Advanced Spatial Technologies, University of Arkansas, Fayetteville, Arkansas

Day 1 (M)		Staffing	Description		
7:00- 8:30	Breakfast at campus dining				
9:00 – 10:00	Welcome and Introduction	Limp and Klehm	The overall structure for the workshop will be presented along with class mechanics. The challenges of publication with extensive digital content will be covered along with strategies for digital archiving. Finally there will be a discussion of developing future proposals.		
10:00- 11:45	Fellows project review	Fellows and staff	Fellows will review their progress to date on their projects, lessons learned and anticipated tasks going forward.		
11:45 – 1:00	Lunch				
1:00 - 2:30	Data Integration and Analytics	Wyatt			
2:30-3:30	HDSM protocols and thoughtful data management plans	Klehm	Review of protocols for HDSM methods to ensure successful data visualization, publication, and archiving, including FAIR principles, data reuse,		
3:30-4:30	Data Preparation Demos	Williamson, Payne, and Green	Demonstration on data preparation, assembly, and modeling for meshes and point clouds (e.g., in Cloud Compare, LAS Tools).		
5:00-7:00	Happy Hour		Location TBD		
Recommende d Readings	DigVentures, on behalf of Historic England. "Work Digital/Think Archive: A Guide to Managing Digital Data Generated from Archaeological Investigations." <a href="https://www.dropbox.com/s/e8ap9hkb710ucfe/7796DIG18WorkDigitalThinkArchie-FINAL-v2-0.pdf?dl=0">https://www.dropbox.com/s/e8ap9hkb710ucfe/7796DIG18WorkDigitalThinkArchie-FINAL-v2-0.pdf?dl=0</a> . (2019). Accessed 26 Feb 2020.  Kansa, E., & Kansa, S. (2021). Digital Data and Data Literacy in Archaeology Now and in the New Decade. Advances in Archaeological Practice, 9(1), 81-85.				
Day 2 (Tu)		Staffing	Description		
7:00- 8:30	Breakfast at campus dining	- Curring	Description		
9:00 – 11:45	Introduction to Tools and Techniques for Visualization	Payne and Klehm	Staff will discuss the challenges of digitally presenting 3D data and methods for visualization. Strategies to represent/visualize complex high-density datasets will be reviewed. Concepts covered will include post-project organization, data reduction, and begin discussion of archival		

1	ı	İ	_
			strategies. Demonstrations include Cloud
			Compare for basic rendering and
			animation, ArcGIS Pro for point cloud
			import, Unreal for point cloud import
			and animation. MeshLab, Blender, and
			Sketchfab will also be covered.
12:00 - 1:00	Lunch		
1:00 – 4:30	Zunen		Meet with individual mentors to address
1.00 - 4.50	Meet with mentors		specific project issues with digital
	Wicci with mentors		
D 1	C'H 1		archiving and publication.
Recommende	GitHub - castuofa/sparc teachi	ng	
d Readings			** "**
			ns, Harry. "Virtual Archaeology of Death and
			nd Analysis in Archaeothanatology" Open
	Archaeology, vol. 7, no. 1, 2021	1, pp. 540-555. https://d	oi.org/10.1515/opar-2020-0152
D 2 din		G, CC	D
Day 3 (W)		Staffing	Description
7:00-	Breakfast at campus dining		
8:30	1		
			Continued software demonstrations on
	Continued visualization and		online viewing and publication
	publication software		platforms, including Potree, 3D Heritage
9:00 – 11:45	demonstrations; post-product	Williamson and Payne	Online Platform, Relief Visualization
9.00 – 11.43		Williamson and Payne	Toolbox, ArcGIS Online, and ESRI
	organization and metadata		Storymaps. Software agnostic file types,
	standards		presentation, and distribution methods
			will be discussed.
11:45 – 1:00	Lunch		Will be discussed.
1:00 – 4:30	Danen		Meet with individual mentors to address
1.00 - 4.50	Mentor Time		
	Mentor Time		specific project issues with digital
			archiving and publication.
Recommende	VR Software wiki (brown.edu)		
d Readings			
			Integrating Digital Datasets into Public
		toryMaps. Advances in	Archaeological Practice, 8(4), 351-360.
	doi:10.1017/aap.2020.14		
Day 4 (Th)		Staffing	Description
7:00-	Breakfast at campus dining		
8:30	Dreamast at campus anning		
			Research publication is always
			challenging for those relatively new to
	Publication strategies and interrelation with archives	Klehm and Payne	the field. This is made even more
9:00 – 11:45			complex when there are massive
			amounts of digital data. Staff will
			conduct a review of the state-of-the art in
			digital publications strategies, challenges
			and opportunities. Exemplars will be
			= =
			presented and critiqued. The challenge of
			maintaining archives and digital
			publications will be investigated and
			variable strategies to link archives and
			publications will be considered.
11:45 – 1:00	Lunch		

1:00 – 4:30	Cultural Activity	Fellows will choose from hiking (AM or PM), swimming hole, Crystal Bridges and/or The Momentary				
Recommende	Optiz, R., Mogetta, M., and N. Terrenato (Eds.) A Mid-republic House from Gabii. E-book, Ann					
d Readings	Arbor, 2016: University of Michigan Press. <a href="https://doi.org/10.3998/mpub.9231782">https://doi.org/10.3998/mpub.9231782</a> .					
	Banducci, Laura M, and Anna Gallone. A Cemetery and Quarry From Imperial Gabii. E-book, A Arbor, MI: University of Michigan Press, 2021, https://doi.org/10.3998/mpub.11885571					
	Opitz, R., Richards-Rissetto, H., Dalziel, K., Dussault, J. and Tunink, G. (2022) Exploring 3D data reuse and repurposing through procedural modeling. In: Garstki, K. (ed.) Critical Archaeology in the					
	Digital Age: Proceedings of the 12th IEMA Visiting Scholar Conference. UCLA Cotsen Institute of					
	Archaeology Press, pp. 123-139. ISBN 9781950446261					

Day 5 (F)		Staffing	Description
7:00- 8:30	Breakfast at campus dining		
9:00 – 11:45	Archiving: data storage, metadata and repositories for future access and reuse	Klehm, J. Wilson, and Payne	Complexities and requirements of storing and archiving large, dense spatial datasets will be covered, including metadata strategies. Characteristics of major disciplinary archives (Open Context, tDAR, ADS) will be reviewed. Metadata standards and archiving and discovery will be covered. University and other, general, archives (e.g. Zenodo) will be demonstrated and strengths and weaknesses of the alternatives will be discussed as well. The significance of persistent document identifiers and the value of CoINS and similar vehicles to encourage citation and reuse. Using the workplan and guidance documents from the CiFA/Historic England Dig Ventures initiative as models, staff will review the steps in selecting a digital archive and the processes needed to prepare the digital materials created by the Fellows for archiving. Role of data management plan in future proposals and elements to be considered in formulating such plans will be covered as will costing and budgeting.
11:45 – 1:00	Lunch		
1:00-2:00	Mentor Time		
2:00-4:00	Mentor Time		Continue hands-on work with staff and equipment, software and materials
4:00-6:30	Reception		Final Reception at the Duncan Ave Apartments
Recommende d Readings	https://guides.archaeologyd	ataservice.ac.uk/g2g	p/Main

Mi, X., Bernardy, R. & Schmidt, L. Building an archaeological data repository: a digital library and digital humanities collaboration at the University of South Florida. Int J Digit Libr 22, 135–145 (2021). https://doi.org/10.1007/s00799-020-00297-1

Aycock, J. (2021). The coming tsunami of digital artefacts. Antiquity, 95(384), 1584-1589. doi:10.15184/aqy.2021.84