





TUESDAY MORNING

8:30 AM - Keynote Address

Dr. Ken Kvamme SCE Auditorium

9:30 AM Coffee Break

Open Open Open. The Rise of Open Scientific Publishing and the Archaeological Discipline: Managing the Paradigm Shift

Education and Dissemination Room: SCE 216

Organizers: Arianna Traviglia, Xavier Rodier

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9:50 AM	Rocks-Macqueen, Doug, Tom Levy, The Last of the Publishers	
10:10 AM	Roued-Cunliffe, Henriette, Peter Jensen , What is Open Data in an Archaeological Context?	
10:30 AM	Brin, Adam, Francis Pierce- McManamon, Leigh Anne Ellison, The Challenges of Open Access for Archaeological Repositories	
10:50 AM	Kondo, Yasuhisa, Atsushi Noguchi, Best Practices and Challenges in Promoting Open Science in Archaeology: Two Narratives from Japan	
11:10 AM	Rodier, Xavier, Olivier Marlet, How to Combine Archaeological Archives, Linked Open Data and Academic Publication, a French Experience	
11:30 AM	Buard, Pierre-Yves, Elisabeth Zadora- Rio, Publishing an Archaeological Excavation Report in a Logicist Workflow	
11:50 AM	Kansa, Eric, Anne Austin, Ixchel Faniel, Sarah Kansa, Ran Boynter, Jennifer Jacobs, Phoebe France, A Reality Check:	

The Impact of Open Data in Archaeology

Same as it ever was... Same as it ever was

Critical Reflections Room: SCE 217

Organizers: Hugh Corley, Lorna-Jane Richardson

9:50 AM	Pageau, Hanna , An Inclusive Archaeology: Being Able in Archaeology
10:10 AM	Foreman, Penelope, "Well, actually": The Othering of Women in the Computing and Programming Communities and Its Effects on Digital Archaeology
10:30 AM	Ni Chiobhain Enqvist, Delia, Whose (Maritime) Archaeology is It Anyway?
10:50 AM	Hassett, Brenna, Suzanne Pilaar Birch, Victoria Herridge, Rebecca Wragg Sykes, TrowelBlazers: Raising Horizons for a Diverse Digital Archaeology
11:10 AM	Corley, Hugh , <i>Privilege and Digital</i> <i>Archaeology</i>
11:30 AM	Richardson, Lorna-Jane , Digital Archaeology and Digital Inequalities: A View from a Sociology Department
11:50 AM	Discussion

Urbanism at the Micro, Meso and Macro Scales: Advances in Computational and Quantitative Methods to Study Cities and their Built Environments

GIS Room: SCE Auditorium

Organizers: Eleftheria Paliou, Adrian Chase

9:50 AM	Cabaniss, Andrew, Diversity from the Bottom Up: Modeling Cities as Communities of Diverse Households
10:10 AM	Cesaretti, Rudolf, Re-Evaluating Settlement Population Estimation: An Analogue-Based Method for Modeling Patterned Variation in Population Density
10:30 AM	Levine, Evan, Daniel Plekhov , Patterns of Urbanism in Bactria: Reevaluating a

Paradigm Through Remote Sensing

0:50 AM	Hermitt, Elijah, Erika Maxson, Kirk French, Damien Marken, Derek Shaffer, Timothy Murtha, Hydrologic Design in Three Maya Cities: Using Regional Topographic Data, Hydrologic Analysis in		reation of Big Data Labs for ology, Heritage, and Global ves
	GIS and Archaeology for a Comparative Analysis of Palenque, Tikal, and El Peru	Broad	der View - Digital Archaeology and the Humanities
1:10 AM	Baumanova, Monika, Ladislav Smejda,		Room: SCW 460/462
	Heinz Ruther, The Streets of Timbuktu Old Town. Moving Goods, People and Ideas on	C	Organizers: Thomas Levy, Michael Decker
1:30 AM	the Coast of the Sahara Shpuza, Ermal, The Effect of Gridiron Street Pattern on the Urban Growth of	9:50 AM	Decker, Michael, Thomas Levy, Maurizio Forte, Ethan Watrall, Introduction
	Adriatic and Ionian Coastal Cities 1800- 2010	10:00 AM	Decker, Michael , CVAST: The USF Center for Virtualization and Applied Spatial
1:50 AM	Crawford, Katherine, Unravelling Urban Religious Landscapes: Modelling Processions at Ostia	10:20 AM	Technologies Levy, Thomas, Margie Burton, The UC San Diego Center for Cyber-Archaeology and Sustainability
]	Klassen, Sarah, Jonathan Weed, Damian Evans, Discerning the Urban Morphology of Angkor Using a Semi-Supervised	10:40 AM	Forte, Maurizio, The Dig@Lab at Duke University
	Algorithm for Manifold Learning	11:00 AM	Watrall, Ethan, MATRIX: The Center for Digital Humanities & Social Sciences
Genera	l Papers General - GIS	11:20 AM	Tanasi, Davide , Learning Through Objects: 3D Digital Imaging, 3D Printing and Haptic Technology for Public Outreach in Archaeology
:50 AM	Room: SCE House Hanus, Kasper, An Analysis of Selected Variables that Affect the Production of Cost	11:40 AM	Colobran, Miquel, Juan Antonio Barcelo, Igor Bogdanovic, Reusing Archeological Information to Improve Modeling and Research: An Interoperability Data Schema
Surfaces 0:10 AM Becker, Daniel, Christian Willmes	**	12:00 PM	Watrall, Ethan , <i>Mbira: A Platform to</i> <i>Build, Serve, and Manage Mobile Heritage</i> <i>Experiences</i>
	Herrero, Gerd-Christian Weniger, Georg Bareth, Influence of Differences in Digital Elevation Models and their Resolution on Slope-Based Site Catchment Modelling		Roundtable on Advanced Challenges ory and Practice in 3D Modeling
0:30 AM	Beusing, Ruth , Temporal-GIS Tools for Mixed and Meso-Scale Archaeological Data		3D Acquisition / Object Modeling Room: SCW 464
0:50 AM	James, Vivian, Context as Theory: Towards Unification of Computer Applications and Quantitative Methods in Archaeology	Organizers:	Alyson Gill, Heather Richards-Rissetto, Lisa Snyo
1:10 AM	Sharp, Kayeleigh, Testing the 'Small-Site' Approach with Multivariate Spatial Statistical and Archaeological Network	9:50 AM	Carter, William , The Life of Attributes: Meta and Paradata as 3D Point and Object DNA for Heritage Providence
1:30 AM	Analysis Groen, Mike, Geospatial Analysis,	10:10 AM	Clinton, Miriam, A Workflow to Integrate 3D Data Acquisition with Traditional Artifact Study? Lessons from Mouliana
1:50 AM	Predictive Modelling and Modern Clandestine Burials Slayton, Emma, Jan Athenstädt, Corinne	10:30 AM	Ulguim, Priscilla, 3D Digital Models and Bioarchaeology: Challenges and Proposals
	Hofman, Jan Hildenbrand, Seafaring with Mental Sign Posts: Connecting Materials with Canoe Routes in the Archaic Age Northern Lesser Antilles	10:50 AM	for Practice Massari, Lauren, William Rourk, Shayne Brandon, Jama Coartney, Worthy Martin, Chip German, Challenges in Processing, Delivering, and Archiving Large

Processing, Delivering, and Archiving Large Amounts of 3D Data

Photography, Scientific Imaging, and the Preservation of 3D Digital Representations

Mudge, Mark, Computational

11:10 AM

11:30 AM Richards-Rissetto, Heather, Challenges of Peer-Review: Where Does 3D Archaeological Scholarship Fall under the Umbrella of Digital Humanities Scholarship?

11:50 AM Richards-Rissetto, Heather, Alyson Gill, Roundtable

Rip – Model – Learn: Towards the Total Model

Broader View - Digital Archaeology and the Humanities Room: SCW 466/468

Organizers: Carlo Bianchini, Alfonso Ippolito, Carlo Inglese, Luca Senatore

9:50 AM Luce, Fabio, Digital Surveying and Ideal Reconstruction for Total Hybrid Model: The Case of Fort Presanella in Val di Sole.

10:10 AM Filippucci, Marco, Fabio Bianconi, Federica Magi Meconi, Models and Parameterization of the Five Orders of Architecture

- 10:30 AM **Eve, Stuart, Guy Hunt, Michael Johnson, Jessica Ogden, John Layt**, 10 Years of
 Online Archaeological Databases Revolution, Convolution, Evolution
- 10:50 AM Empler, Tommaso, 3D Modeling to Reconstruct a Paleontological Site: Museum of Casal de' Pazzi in Rome
- 11:10 AM Senatore, Luca, Michela Cigola, Arturo Gallozzi, New Methodologies for Knowledge and Valorization: The Digital Survey Made by Remote-Controlled Mobile Platform: The Case Study of the Roman Casinum City
- 11:30 AM Caldarone, Adriana, 3D Printing and Augmented Reality: Integration, Methods and Communication for Cultural Heritage.
- 11:50 AM Bercigli, Monica, Stefano Bertocci, Digital Documentation of Masada Fortress in Israel: Integrated Methodologies of Survey and Representation
- 12:10 PM Carnevali, Laura, Marco Carpiceci,
 Andrea Angelini, Problems Concerning
 Elaboration and Representation in Italian
 Rock-Hewn Architecture

TUESDAY AFTERNOON

Archaeology In and Out of the Classroom: Digital Approaches to Archaeological Instruction

Education and Dissemination Room: SCE 216

Organizer: Jeffrey Emanuel

2:00 PM	Gandolfi, Eleonora, Public Engagement in Compulsory-Age Education with MOOCs: A Case Study from the Italian and English Context
2:20 PM	Rourk, Will, Andrew Johnston, Lauren Massari, Shayne Brandon, Arin Bennett, Jama Coartney, Worthy Martin, Cultural Heritage Data Synthesis for Architectural History Field Methods
2:40 PM	Golubiewski-Davis, Kristina, Samantha Porter, Matt Edling, John Soderberg, Gilbert Tostevin, The Use and Reuse of 3D Scanned Lithic Refits
3:00 PM	Galvin, Elizabeth, Jennifer Wexler, Virtual Viewing: Engaging Audiences with the African Rock Art Digital Collection at The British Museum

The Technology Lag: A Panel Discussion Regarding the Use of the Computing Technologies Toolkit For Cultural Resource Compliance Projects

Critical Reflections
Room: SCE 216

Organizers: Brian Seymour, Michael Scafuri, Sarah Kessick, Timothy Dodson

4:00 PM **Seymour, Brian**, Introduction / Roundtable

Ground-penetrating Radar Advancements in the Americas

Geophysics/Remote Sensing Room: SCE 217

Organizer: Peter Leach

2:00 PM	Morris, Isabel, Today's Surveys and Tomorrow's Inversions: GPR Attribute Analysis
2:20 PM	Sturm, Jennie, Ground-Penetrating Ra

20 PM Sturm, Jennie, Ground-Penetrating Radar in Chaco Canyon, New Mexico: 40 Years of Mapping Chaco's Buried Past 2:40 PM Lowry, Sarah, Shawn Patch, Mississippian Villages in East Tennessee: Geophysical Case Studies at Five Sites to Examine Community Layout and Land Use

3:00 PM Leach, Peter, Richard Boisvert, High-

Non Invasive Methods to Assess Above and Underground Spatial Pattern

Geophysics/Remote Sensing Room: SCE 217

Frequency GPR for Real-Time 'Digital

Bisection' of Archaeological Features

Organizers: Michael Märker, Christian Sommer

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4:00 PM	Märker, Michael, Ivano Rellini, Luigi Mucerino, Volker Hochschild, Assessment of Subsurface Neolithic/ Palaeolithic Sites in the Southern Gargano Area, Apulia, Italy
4:20 PM	Stavilă, Andrei, Bronze Age Tell or Not? Research Methods for Revealing the Internal Habitation Pattern of Alioş – "Valea Alioşu" Site, Timiş County, Romania
4:40 PM	Pihokker, Matthew , Determining Spatial Relationships between Domestic Sites and Cemeteries of the Central Peloponnese
5:00 PM	Hegyi, Alexandru, Petru Urdea, 2D and 3D Electrical Resistivity Tomography Imaging of Archaeological Structures - Case Studies from Romania

Urbanism at the Micro, Meso and Macro Scales: Advances in Computational and Quantitative Methods to Study Cities and their Built Environments

GIS Room: SCE Auditorium

Organizers: Eleftheria Paliou, Adrian Chase

2:00 PM	Chase, Adrian, Erasing the Garden City: Interpolation of Architectural Volume from LiDAR Derived DEMs
2:20 PM	Prufer, Keith, Amy Thompson , Processes of Urban Development Among the Ancient Maya of Uxbenká and Ix Kuku'il, Southern Belize
2:40 PM	Hare, Timothy, Mapping and 3D Modeling at the Household, Neighborhood, and Regional Levels Using UAVs, Photogrammetry, and LiDAR
3:00 PM	Forte, Maurizio, Nevio Danelon, David Johnston, Katherine McCusker, Everett Newton, Vulci3000 Project - A Digital

Challenge

3:20 PM	Landeschi, Giacomo, Stefan Lindgren, Jesper Blid Kullberg, Henrik Gerding, Alcestis Papadimitriou, Jenny Wallensten, Nicolò Dell'Unto, Angeliki Kossiva,	4:00 PM	Lercari, Nicola, Jeffrey Weekley, Leveraging the UC Merced WAVE and Pacific Research Platform to Create At-Risk Global Cultural Heritage Networks
	Integrated Digital Methods for Investigating a Hidden Cityscape: The Case of Ancient Hermion	4:20 PM	Frey, Jon , From Analog to Digital in Archaeological Archives
3:40 PM	Coffee Break	4:40 PM	Spring, Adam, Solutions in Photogrammetric Selectivity: Optimizing High Fidelity Meshes from Casual
4:00 PM	Kubicka, Anna, The Metrological Research of Machu Picchu Settlement: Application of a Cosine Quantogram Method for 3D Laser		Photography-The Trajan's Forum Project Examples
4:20 PM	Data Vadala, Jeffrey, Brian Denham, Virtual	5:00 PM	Forte, Maurizio, Nevio Danelon, Julia Liu, The Trajan's Forum Project: Dig@lab and the Framework of Big Data.
4.20 1111	Reality as a Tool for Spatial Analysis at Cerro Maya, Belize (Cerros)	5:20 PM	Liss, Brady, Matthew Howland, Thomas Levy, Running on Autopilot: Testing Google
4:40 PM	Goodwin, Graham, Heather Richards- Rissetto, Modeling Acoustics in Ancient Maya Cities: Moving Towards a Synesthetic Experience Using 3D Simulation		Earth Engine for the Automatic Identification of Archaeological Features in Satellite Imagery
5:00 PM	Hanus, Kasper, Understanding Urban Pattern of Silk Road Oasis-Cities Using Archival Aerial Images.		ods, Tools, Disruption : From nation Delivery to Interaction
5:20 PM	Discussion	Broa	der View - Digital Archaeology and the Humanities
The C	reation of Big Data Labs for		Room: SCW 464
	eology, Heritage, and Global		Organizer: Ian Johnson
Initiat	ives	2:00 PM	Gunn, Scott, Archaeological Field Data
Broader View - Digital Archaeology and the Humanities Room: SCW 460/462 Organizers: Thomas Levy, Michael Decker			Collection Using Ruggedized Android Tablets and Free and Open Source Software
		2:10 PM	Brennan, Matthew, Bernard Frischer, Photomodeling for Rapid Documentation and Survey of Complex Urban Spaces and Archaeology
2:00 PM	Johnson, Andrew, Steve Savage, Tom Levy, The ASOR Cultural Heritage Initiative-TerraWatchers Collaborative: Crowd-Sourced Monitoring of At Risk	2:20 PM	Laugier, Elise, Jesse Casana, Cultural Heritage Monitoring Using Time-Sequenced Satellite Imagery: A Case Study from the Syrian Civil War
2:20 PM	Cultural Heritage Sites in the Middle East Banaszek, Łukasz, Kamila Oleś, Making Use of the Publicly Available Spatial Data and Bringing the Past to the People: A Case	2:30 PM	Casana, Jesse, Jackson Cothren, The CORONA Atlas Project: Orthorectification and Analysis of Declassified, Cold War-Era Satellite Imagery
2:40 PM	Study of the Pomeranian Wall, Poland McCusker, Katherine, Maurizio Forte, David Johnston, Everette Newton, Adding the Aerial Multi-Spectral Perspective: A Holistic View of Vulci through Multi-layered Data Sets	2:40 PM	Meyer, Dominique, Eric Lo, Thomas Wypych, Dominique Rissolo, Falko Kuester, From Air to Model- A Workflow for Automated UAV Surveying, Data Transmission and Rapid Cloud Distributed Photogrammetry Processing
3:00 PM	Harrison, Laura , Mobilizing a Salvage Archaeology Dataset to Build a 3D Interpretive Visualization	2:50 PM	Tolle, Karsten, David Wigg-Wolf , Improving Data Quality by Rules – A Numismatic example

Discussion

3:00 PM

Smitheram, Craig, George Pavilidis,

Thomas Levy, The Center for Cyber-Archaeology and Sustainability (CCAS): Pedagogy and Student Engagement in At-

Risk World Heritage Initiatives

Coffee Break

3:20 PM

3:40 PM

Geographic Relations in Databases on Cultural Heritage		2:20 PM	Gallozzi, Arturo, Leonardo Paris, Wissam Wahbeh, 3D Models and Interactive Comunication for Archaeology: The Nymphaeum Ponari in Cassino
Networks/Modeling Room: SCW 464 Organizers: Michael Märker, Volker Hochschild, Espen Uleberg,		2:40 PM	Carpiceci, Marco, Carlo Inglese, Andrea Angelini, Survey, Representation, Analysis and Cataloguing of the Rock-Hewn Architecture in Cappadocia
4:00 PM	Mieko Matsumoto Perucchetti, Laura, Peter Bray, Mark Pollard, The Use of GIS to Understand the Circulation of Metal in the Prehistoric Alps.	3:00 PM	Chiavoni, Emanuela, Daniela Esposito, The Archaeological Park of the Porto of Traian: Knowledge, Preservation and Fruition
4:20 PM	Uleberg, Espen, Mieko Matsumoto, Display matters? Enhanced Visualization for Unique Aspects of Norwegian Stone Age Site Distribution	3:20 PM	Piumatti, Paolo, Rosa Tamborrino, 3D Digital Modelling and Digital Urban History: A Methodology for Studying the Processes of Transformation of Nubian Temples and Landscape in the Site of Lake
4:40 PM	Willmes, Christian, Daniel Becker, Yasa Yener, Olaf Bubenzer, Georg Bareth, Open Science, e-Science and Geospatial Data Management to Support Research in Archaeology	3:40 PM 4:00 PM	Nasser. Coffee Break Pirinu, Andrea, Graphic Analysis of
5:00 PM	Märker, Michael, Volker Hochschild, Christian Sommer, How to Integrate and Illustrate Aspects of Landscape Evolution and Human Evolution		Historic Documents, Architectural Survey, Applied Geophysics in Support of Archaeological Investigation: The Urban Wall of Cagliari (Sardinia, Italy)
5:20 PM	Discussion	4:20 PM	Attenni, Martina, Alfonso Ippolito, Representing Intangible Heritage: Questions About Method
Rip – I	Model - Learn: Towards the Total	4:40 PM	Inglese, Carlo, Carlo Bianchini, Alfonso Ippolito, Martina Attenni, Valeria Caniglia, Tradition and Innovation: From Worksite Plans to Digital Models
	der View - Digital Archaeology and the Humanities Room: SCW 466/468	5:00 PM	Porfiri, Francesca, Carlo Bianchini, The Microcosm of Tiberius's Cave in Sperlonga: Analysis, Investigation and Digital Reconstruction of the Ancient "Sculpture's Theatre"
Organizers: Carlo Bianchini, Alfonso Ippolito, Carlo Inglese, Luca Senatore 2:00 PM Mancini, Matteo Flavio, Leonardo Baglioni, Integrated Surveying Techniques for Analysis of Archaeological Artifact		5:20 PM	Bianchini, Carlo, Alessandro Viscogliosi, giorgia potestà, Gaia Lisa Tacchi, Tradition and Hi-Tech in the Construction of a Total Model: The Complex of Pietrabbondante

Tuesday Evening

Poster Session: 5:40 PM - 7:30 PM

Room: SCE House

Posters from The Creation of Big Data Labs for Archaeology, Heritage, and Global Initiatives

Elliott Smith, Rosemary, Carolyn Breeze, Taylor Harman, Arkin Gupta, Franklin Reece, Margie Burton, Thomas Levy, ArchaeoSTOR: A User-Friendly Archaeological Database

Lu, Qin-Qin, Zhengyao Jin, Scientific Database and the Big Data Approach for the Bronze Age of China

Du Vernay, Jeffrey, 3D Mapping and Visualizing the Galerie de Paléontologie et d'Anatomie Comparée at the Muséum National d'Histoire Naturelle, Paris

McLeod, James, Three-Dimensional Documentation and Examination of a Medieval Period Cistern at Alarcos in the Castilla-La Mancha Region of Spain

Howland, Matthew, Developing a Standardized Workflow for Digital Preservation and Analysis of Archaeological Ceramics

Banaszek, Łukasz, Kamila Oleś, Data Hub for Early Medieval Architecture? Crossing the Borders of an Unfriendly Tradition

General Posters

Bergervoet, Michael, Geospatial and Ethnographic Analysis of the Red Wing Stone Cairns

Brenningmeyer, Todd, Documenting Ephemeral Settlements of Modern Greece

Canela Grácia, Joan, Núria Otero Herraiz, Cultural Heritage preservation through Open Data and GIS: A methodological proposal for Northeastern Iberian Peninsula.

Dennis, L. Meghan, Reclaiming "Ethics" in a Post-GamerGate World: Participatory Standards and the Establishment of an Ethical Framework of Practice in Archaeogaming

Harper, Charlie, Jeremy Vause, Batten Down the Hatches! Digitizing and Displaying Finds from the Spanish Plate Fleet Wrecks

Harper, Charlie, Jeremy Vause, Batten Down the Hatches! Digitizing and Displaying Finds from the Spanish Plate Fleet Wrecks

Holmes, Rachael, Ashely Green, Accounting for Environmental Factors: Approaches to enhancing horizontal resolution and interpretability in geophysical surveys

Jones, Steven, Eileen Ernenwein, Towards A More Efficient Approach To Grave Detection: Experiments Using Microtopography, Ground Penetrating Radar, Magnetometry, And Electromagnetic Induction

Lockhart, Jami, Timothy Mulvihill, Jeffrey Mitchem, A Multiscale Geospatial Analysis of a Protohistoric Mississippian Landscape.

Menzer, Jeremy, Jay Franklin, Geophysical Survey of Mississippian Mound Sites on the Upper Cumberland Plateau, Tennessee

Muccigrosso, John, Creating a Database of Roman Temples

Nicu, Ionut Cristi, Cultural heritage landscape vulnerability using analytical hierarchy process and geographic information systems. An approach to historical maps

Sea, Claiborne, Eileen Ernenwein, Landscape Scale Geophysical Survey of the Singer-Hieronymus Site Complex in Scott County, Kentucky: Determining the Development of Village Infrastructure Using Non-Invasive Techniques

Smith, Tyler, Greg Lewis, Allison Mueller, 3D Scanning and Printing Ancient Greek Vases: From Deep Storage to Rapid Prototyping

Smith, Karen, Jun Zhou, Haoshou Yu, Song Wang, Colin Wilder, SnowVision 1.0: Toward the automatic matching of stamped pottery sherds to carved wooden paddle designs

Tankersley, William, An Approach to Digital Data Collection for Cultural Resource Management

Traviglia, Arianna, Automating detection of landscape patterning: a similarity-based approach

Velandria, Yoly, *Pre-Hispanic agricultural* technologies and water control systems in northwestern Venezuela

Whitmore, Deidre, Seeking Context: Archaeological Practices Surrounding the Reuse of Spatial Information

Wright, Holly, Gabriele Gattiglia, Michael Remmy, Archaeological Automatic Interpretation and Documentation of cEramics (ArchAIDE)

Yang, Yunyun, A Study of the Cultural Development and Landscape Distribution of the Majiayao Culture in Gansu and Qinghai Provinces in China







WEDNESDAY MORNING

Mechanics, Mods and Mashups: Games of the Past for the Future Designed by Archaeologists

Education and Dissemination Room: SCE 216

Organizers: Erik Champion, Michael Nitsche

8:30 AM	Booker, Emily , "I Don't Want to Set the World on Fire": Ruin Interactions and Attitudes in Fallout 4
9:00 AM	Bryant, Robert, Sandra Blakely, Joanna Mundy, Cole Furrh, Sailing with the Gods: Argonauts and Samothracians in an Ancient Sea
9:30 AM	Eve, Stuart, How Waterloo was Won
10:00 AM	Linde, Lennart , Blur the Lines – Games as Tools for Archaeological Research
10:30 AM	Coffee Break
10:50 AM	Underberg-Goode, Natalie , Arpilleras and Ayni: Roleplaying Reciprocity
11:20 AM	Hiriart, Juan , Designing and Using Game Environments as Historical Learning

Automation is Here to Stay! The Hitchhiker's Guide to Automated Object Detection and Image Processing in Remote Sensing

Contexts

11:50 AM Discussion

Geophysics/Remote Sensing
Room: SCE 217

Organizers: Arianna Traviglia, Dave Cowley

8:30 AM	Cowley, Dave, Arianna Traviglia, Hitching the Right Ride? Concepts and Issues for Developing Automated Object Detection and Image Processing in Remote Sensing Archaeology
8:50 AM	Kramer, Iris , Creating a Future for Automation by Targeting Models to their End-Users
9:10 AM	Zambanini, Sebastian, Simon Brenner, Robert Sablatnig, Adapting to the Problem at Hand: Image Registration and Object Detection for Automatic WW2 Aerial Photograph Processing
9:30 AM	Green, Ashely, Paul Cheetham, Timothy Darvill, Information Systems and Ad Hoc Workflow Models as Viable Applications to Improve the Pre-excavation Detection of Characteristic Human Interments
9:50 AM	Ramel, Jean-Yves, Clément Laplaige, Xavier Rodier, Shuo Bai, Extraction of Linear Structures from LIDAR Images Using a Machine Learning Approach
10:30 AM	Coffee Break

General - Data Management and Textual Analysis

General Room: SCE 218

8:30 AM	Bischoff, Robert , Moving Forward with Digital Databases: Current Opinions and Potential Solutions
8:50 AM	Schroer, Carla, Mark Mudge , Digital Lab Notebook Creation for Computational Photography
9:10 AM	Casey, Christian, Digital Demotic: Opportunities and Challenges
10:30 AM	Coffee Break
10:50 AM	Gad, Moataz, Yasmin Mohamed, Treatment of Lime Stone Colored with

O:50 AM Gad, Moataz, Yasmin Mohamed,
Treatment of Lime Stone Colored with
Egyptian Blue Pigment Using Different
Techniques of Documentation

11:10 AM	Bray, Peter, Mark Pollard, The Characterisation Hypothesis for Scientific Metallurgy: Classes of Structure in Chemical Datasets and their Visualisation	11:50 AM	Gonzalez-Perez, Cesar, Martin Pereira- Fariña, Chris Reed, Toward an Argument Evaluation System on Cultural Heritage Based on Anchoring Inference Theory
11:30 AM	Sonnemann, Till, Jason Laffoon, Termeh Shafie, Enhancing Archaeological Material Provenance Studies by Manipulating	12:10 PM	Discussion
1150 AM	Isoscapes Foreman, Penelope, The Colour Out of	Women	n in CAA
11:50 AM	Space: Digital Media as Mouthpieces for Material Agency		Critical Reflections Room: SCW 460/462
From F	Physical to Digital, From Interactive	Orga	anizers: Katie Simon, Sara Gale, Lisa Fischer
	ersive: Uses of Three-Dimensional entation, Mixed Reality, and More	8:30 AM	Simon, Katie, Introduction
in the S	Sharing and Exploration of ological Data	8:40 AM	Ernenwein, Eileen , <i>Implicit Gender Bias?</i> What's That?
	VR	8:50 AM	Rocks-Macqueen, Doug , <i>Is Equality Enough?</i>
	Room: SCE Auditorium Organizer: Jeffrey Emanuel	9:00 AM	Wendrich, Willeke, Bringing out the Best: Mentoring Women in Digital Archaeology
8:30 AM	Vurpillot, Damien, Making Virtual Reality	9:10 AM	Wallrodt, John, Increasing Academic Approaches to CAA
	Real: What Can We Learn by Bringing Together Virtual Reality and Visual Attention Analysis?	9:20 AM	Discussion
8:50 AM	Bremer, Thomas, Sebastian Plesch, Kay Kohlmeyer, Susanne Brandhorst, Arie Kai-Browne, Timo Falke, VR:TA - A	9:50 AM	Fredrick, David, Collision Detection: Reflections on Gender from Game Space to Other Spaces
9:10 AM	Virtual Reality Toolset for Archaeologists Hollis, Luke, MorgantinaVR: Cityscale	10:00 AM	Gonzalez-Tennant, Edward, Cyberfeminist Perspectives on the Future of Digital Archaeology
	Handheld AR and Cross-Platform VR for Visualizing Georeferenced Datasets as a Part of a Microservices Software	10:10 AM	Discussion
0.20 434	Architecture Burns, Bryan, Jordan Tynes, Excavation	10:30 AM	Coffee Break
9:30 AM	Progress and Artifact Manipulations in a Virtual Environment	10:50 AM	Sturm, Jennie , Women in Business in the CAA fields
9:50 AM	Kamash, Zena, Digital Digestion: Roman Food and Digital Objects at Corinium Museum	11:00 AM	Lowry, Sarah, Technical Women in Cultural Resource Management: Amplifying the Importance of Non-Traditional Skill Sets in Modern Archaeology
10:10 AM	Wescoat, Bonna, Arya Basu, On the Dynamics of Interactive Exploration over Animation as Methods of Experiential	11:10 AM	Simon, Katie, That Was Not OK. Now What?
	Simulation in the Sanctuary of the Great Gods on Samothrace	11:20 AM	Discussion
10:30 AM	Coffee Break	11:40 AM	Gale, Sara, How to Maintain an A-Game!:
10:50 AM	Rudov, Ivan , Combined Method of 3D Model of Archaeological Objects		The Importance of Continued Education for Women in Technical Fields
11:10 AM	Optimization for a Mobile App. Beale, Nicole, Gareth Beale, Julian	11:50 AM	Safi, Kristin, Using Technology to Increase Skill Development, Problem Solving, and Collaboration among Women in the CAA
	Richards, Dawn Hadley, Jonathan Hook, Guy Schofield, Virtual Reality and Storytelling for Viking Archaeology	12:00 PM	Fischer, Lisa, A "Digital Divide": Working to Close the Gender Gap
11:30 AM	Löwenborg, Daniel, John Ljungkvist,	12:10 PM	Discussion
	Daniel Westergren, Sebastian Wiberg, Staffan Hagberg, Augmented History – A Virtual "Window to the Past"	12:25 PM	Fischer, Lisa, Closing Remarks

Data, Theory, Methods, and Models. Approaching Anthropology and Archaeology through Computational Modeling

Scatters

Networks/Modeling Room: SCW 464

Organizers: Stefani Crabtree, Iza Romanowska		Organizers: Bernard Frischer, Gabriele Guidi	
8:30 AM	Crabtree, Stefani , An Introduction to Modeling	8:30 AM	Frischer, Bernard, Digitizing Sculpture: Where We've Been, Where We're Going
8:50 AM	Allison, James , Agent-Based Modelling of the Relationships Among Kinship, Residence, and Exchange	8:50 AM	Vassallo, Valentina, Nicolò Dell'Unto, Sorin Hermon, A Quantitative Approach Using 3D Models for a Typo-Technological
9:10 AM	Weaverdyck, Eli, Military Markets in Moesia Inferior: Using Location Analysis and Comparative Modelling to Identify		and Manufacturing Study of Terracotta Statuettes: The Case Study of the Ayia Irini (Cyprus) Small Figurines
	Market Places on Rome's Lower Danubian Frontier	9:10 AM	Brennan, Matthew , The Prado Muses - Rethinking the Unity of a Statue Group with the Help of 3D Models
9:30 AM	Coto-Sarmiento, Maria, Simon Carrignon, Xavier Rubio-Campillo, José Remesal, Identifying Social Learning Mechanisms in the Amphorae Production within Roman Empire	9:30 AM	Kubicka, Anna, Aleksandra Brzozowska, 3D Models of Architecture Remains in Archaeological Context: Visualisation as a Tool in Interdisciplinary Research of Polish
9:50 AM	van Havre, Grégoire, The Dynamics of Brazilian Rock Art Landscape: An Agent-		Archaeological Mission in Kato Paphos on Cyprus.
10:10 AM	Riris, Phil, Experiments in Modelling Environmental Impact: A Case Study of	9:50 AM	Varner, Eric, Digitizing Ancient Sculpture at the Michael C. Carlos Museum, Emory University
	Post-Contact Piaroa (Wothuha) Land Use Patterns	10:10 AM	Guidi, Gabriele, Umair Malik, Best Practices and Metrological Issues in
10:30 AM	Coffee Break		Massive 3D Digitization of Sculptures
10:50 AM	Kruse, Kristin, Spatial Pressure on Alpine	10:30 AM	Coffee Break
1010 0 1201	Settlements? An Equation Based Case Study in the Silvretta Massif (Switzerland, Canton of Grisons)	10:50 AM	Koutsoudis, Anestis, Georgios- Alexis Ioannakis, Christodoulos Chamzas, Incorporating Texture in the Retrieval
11:10 AM	Reynolds, Adam, Paul Hooper, Stefani Crabtree, Julia Clark, Optimizing Long		Process of 3D Models Exploiting Spatial- Consistency of Texture Maps
	Run Energy Harvesting Strategies in Central Asian Nomadic Pastoralists	11:10 AM	Christiaisen, Leif, Seymour: Image-based Rendering Solution for High-resolution,
11:30 AM	Romanowska, Iza, Hominin Dispersal, Environmental Change and the Evolution of	11:30 AM	Browser-based 3D Graphics Burns, Bryan, Jordan Tynes, 3D Models
11:50 AM	Behavioural Plasticity Hölzchen, Ericson, Christine Hertler,		for Curatorial Dialogue and Undergraduate Education
11:50 AM	Modeling Resource-Driven Out of Africa Hypotheses – Potential and Challenges	11:50 AM	Sherman, William, High-Throughput Computing for Large-Scale Digitization
12:10 PM	Davies, Benjamin, Simon Holdaway, Making Sense of the Surface: Using Spatial Simulation to Understand Stone Artifact	12:10 PM	Discussion

12:30 PM

Barceló, Juan, When All Agents Die:

3D Acquisition / Object Modeling

Room: SCW 466/468

Based Models.

3D Digitization of Sculpture

Analyzing the Possible Failures of Agent-

WEDNESDAY AFTERNOON

Computer Applications in Archaeological Pedagogy: Best Practices for Teaching and Learning

Education and Dissemination Room: SCE 216

Organizers: Anna Agbe-Davies, Julia Chyla

2:00 PM	Watrall, Ethan , Building Scholars and Communities of Practice in Digital Heritage and Archaeology
2:20 PM	Bollwerk, Elizabeth, Lynsey Bates, Leslie Cooper, Jillian Galle, Lessons Learned from Teaching and Training with the Digital Archaeological Archive of Comparative Slavery (DAACS)
2:40 PM	Lockyear, Kris, Flippin' R
3:00 PM	Martin-Rodilla, Patricia, Cesar Gonzalez- Perez, Educational Experiences in Archaeological Information Modelling with the Mind Maps and Object-Oriented Paradigms
3:20 PM	Lambers, Karsten, Fulco Scherjon, Iza Romanowska, A Small Private Online Course on 'Modelling and Simulation in Archaeology' at Leiden University
3:40 PM	Coffee Break
4:00 PM	McMichael, A.L., Jon Frey, Tommy Truong, Eric Martin, Augmenting Art History: AR in the Survey Classroom
4:20 PM	Pikov, Nikita , Augmented Reality (AR) and Digital Photogrammetry as a Way of Preserving and Popularization of Archeological Collections
4:40 PM	Freeman, Mark, Jeanne Moe, Project Archaeology: Assessing Paper and Digital Approaches to Online Learning
5:00 PM	Discussion

Differing Perspectives: The Wide World of Geophysical Prospection

Geophysics/Remote Sensing Room: SCE 217

Organizers: Christine Markussen, Petra Schneidhofer

2:00 PM Kalayci, Tuna, Meropi Manataki, Apostolos Sarris, The More the Merrier? Two Conflicting Stances on Multi-Array Sensors

2:20 PM	Casana, Jesse, Austin Hill, Elise Laugier, Advancing Methodologies for Archaeological Aerial Thermography
2:40 PM	De Smedt, Philippe , The Interpretive Potential of Geophysical Landscape Archaeology: An Electromagnetic Perspective.
3:00 PM	Herrmann, Jason , What to do with Ambiguous Anomalies?
3:20 PM	Ernenwein, Eileen, Jeremy Menzer, 3D Ground Truth: Integrating Above Ground Photogrammetry, Ground Penetrating Radar, and Subsurface Laser Scans of a Medieval Tunnel, Mourjou, France
3:40 PM	Coffee Break
4:00 PM	Cooper, Lorna, Relocating a Forgotten Asian Market Garden in Historic Perth (1833-1936): Using GIS to Integrate and Interrogate Excavated, Archival and Geophysical Information
4:20 PM	Cannon, Cayla, Eileen Ernenwein, Jay Franklin, In Search of the People Who Lived Here Before: From Historic to Prehistoric Significance at a Tennessee State Historic Site
4:40 PM	Miszk, Łukasz, Martina Seifert, Nikola Babucic, Ewdoksia Papuci-Władyka, Old or New? Human Impact and the Mapping of Ancient Nea Paphos
5:00 PM	Grap, Rachel, Eileen Ernenwein , Big Geophysics with Small Tools: Looking for the Big Picture One Step at a Time at Tel Shimron
5:20 PM	Discussion

General - 3D Modeling

2:00 PM

General Room: SCE 218

Johnson, Adam, Shifting Stones and Data

	Points: Using Terrestrial Laser Scanning to Assess Damage to Monumental Architecture in Hawai`i
2:20 PM	Guidi, Gabriele, Laura Micoli, Sara Gonizzi Barsanti, Diachronic 3D Reconstruction of Historical Sites in Urban Context
2:40 PM	Cennamo, Gerardo Maria, The Giusso

240 PM Cennamo, Gerardo Maria, The Giusso
Castle and the Foundation Area of
Sicignano degli Alburni (SA): Survey and
3D Modeling for Social and Territorial
Valorization Strategies

Decolonising Digital Archaeology

Critical Reflections Room: SCE 218

	ROOM: SCE 218		Humamnes
Organizers: Andrew Dufton, Jessica Ogden			Room: SCW 460/462
4:00 PM	Sheldrick, Nichole, Accessing Archaeology:		Organizers: Neha Gupta, Michael Carter
	Creating an Open-Access Heritage Database for the Endangered Archaeology in the Middle East & North Africa (EAMENA) Project	2:00 PM	Dallas, Costis , Curation at the Sensor's Gaze: Connecting Representation and Performance in Archaeological Visualization
4:20 PM	Huntsman, Theresa, Eric Kansa, Context and Community: Accountable, Open Presentation of Digital Archaeology	2:05 PM	Gupta, Neha, Rodolphe Devillers, Geographic Visualisation as Knowledge Generation in Archaeology
4:40 PM	Kamash, Zena, 'Postcard to Palmyra': Exploring Visitor Responses to the Replica of the Triumphal Arch from Palmyra in	2:10 PM	Huggett, Jeremy , Continuous Interactivity in Archaeological Visualisation
	Trafalgar Square, London	2:15 PM	Carter, William, Making and Meaning- Making in Virtual Archaeology
5:00 PM	Bianchini, Carlo, Mohammed El Khalili, Nizar Al Adarbeh, Alekos Diacodimitri, Survey, 2D and 3D Modelling of the Roman Nymphaeum in Amman: a Multilateral,	2:20 PM	Higginbottom, Gail, Vincent Mom , Place: The Physical Embodiment of Collective Information
5:20 PM	Cooperative Research Experience Heitman, Carrie , Decolonizing an Archive of Archives?	2:25 PM	Denham, Brian , Applied Technological Approaches in Heritage and Heritage Management: The Black Butte River Mapping Project
Path Moven	Modelling and the Materiality of nent	2:30 PM	Kansa, Eric, Neha Gupta, Visualizing and Navigating Chronology in Large Digital Collections
	GIS Room: SCE Auditorium	2:35 PM	Triplett, Edward, Emma Buckingham , Recontextualizing Decades-Old Excavation Materials through 3D Visualization
Organizers 4:00 PM	: Philip Verhagen, Laure Nuninger, Axel Posluschny Caswell, Edward, Michelle De-Gruchy, James Edwards, Walking Across Beach Sand is Hard and Other Discoveries: First Results of Assessing the Time Cost of	2:40 PM	Kubicka, Anna, Aleksandra Brzozowska- Jawornicka, 3D Models of Architecture Remains in Archaeological Context: Visualization as a Tool in Interdisciplinary Research of Polish Archaeological Mission in Kato Paphos on Cyprus.
4:20 PM 4:40 PM	Moving through Various Terrains Kalayci, Tuna, The Volume of Ancient Movement: A Satellite Remote Sensing Approach Field, Sean, Least Cost Path Modelling: Computing Functional Correlations in	2:45 PM	Kotoula, Eleni, David Robinson, Matthew Baker, Clare Bedford, Devlin Gandy, David Wheatley, James Miles, Jennifer Perry, The Gordian Knot Project: An Integrated Approach for Rock Art Visualization
5:00 PM	Chacoan Road Systems Rothenberg, Miriam, Do All Roads Really Lead to Rome? Modelling Mobility in the	2:50 PM	Pattee, Aaron , Analyzing the Medieval Landscape of the Pfalz—Castles in the Area of Kaiserslautern
5:20 PM	Ager Veientanus and the Sangro Valley, Italy Safi, Kristin, Considerations for Modeling Mobility and Cultural Interaction among Maritime Communities	2:55 PM	Pattee, Aaron, Effie Athanassopoulos, Kami Ahrens, Cole Juckette, Campus Archaeology and 3D Modeling: An Archaeological Collection of Historic Artifacts from the University of Nebraska- Lincoln
		3:00 PM	Juckette, Cole, Effie Athanassopoulos, Aaron Pattee, Kami Ahrens, Campus Archaeology and Digital Mapping: Urban Space and Commerce in Lincoln Nebraska,

1870-1920s.

Tracking in 3D

3:05 PM

Kulhanek, Karin, Andreas Pastoors,

Visualization as Analysis in Archaeology

Broader View - Digital Archaeology and the

Humanities

	:10 PM :40 PM	Discussion Coffee Break	2:20 PM	Bryan, Paul , Structure-from-Motion (SfM) – A Reliable Survey Tool for Archaeology or an Unreliable Black-Box?	
	:00 PM	Kulhanek, Karin, Andreas Pastoors, Roundtable	2:40 PM	Bevan, George, Jason Birch, Some Considerations on Semi-Global Matching for High-Accuracy Heritage Recording Applications	
	The U	ps and Downs of Archaeological ation	3:00 PM	Seguin, Maxime , Training with Free and Open-Source Photogrammetric Softwares: One of the Answers to Rectify the Situation?	
		Networks/Modeling Room: SCW 464	3:20 PM	Bevan, George, Jones Kristen, An Analytical Stereoplotting Workflow for Archaeological Excavation: Reviving a 20th-Century Photogrammetric Technique	
	•	Organizers: Iza Romanowska, Juan Barceló		for the 21st.	
2:	:00 PM	Rocks-Macqueen, Doug , The Long Road Ahead for Simulations in Archaeology	3:40 PM	Coffee Break	
2:	:20 PM	Linde, Lennart , Think Different! - Why "Model Thinking" Shaped the Archaeological Thought Beyond the Hype on ABM	4:00 PM	Meyer, Dominique, Danielle Mercure, Eric Lo, Jamie Hodgkins, Dominique Rissolo, Falko Kuester, Evaluating Photogrammetric Reconstructions of Faunal	
2:40 PM Discussion			and Lithic Artifacts Compared to Traditiona Microscopic Observation, Structured Light Imaging, Laser Scanning, Magnetic Resonance Imaging and Computerized		
	Qualit	y Assurance and Quality Control in		Tomography Scanning	
	Image	-Based Modeling	4:20 PM	Kleinkemper, Larry, The Key to Creating a GREAT Model from Laser Scanning and Photogrammetry	
		3D Acquisition / Object Modeling Room: SCW 466/468	4:40 PM	Liu, Julia, Adam Spring, From Scan to Sculpture: Ensuring Quality Control in	
		Organizers: Adam Spring, George Bevan		Digital Restoration.	
2:	:00 PM	Sherman, William, Introduction	5:00 PM	Peters, Caradoc , Using Inscribed Stone Surfaces To Examine Low Cost 3D imaging	







THURSDAY MORNING

Web-based Infrastructure as a Collaborative Framework across Archaeological Fieldwork, Lab Work, and Analysis

Collaborative Data Management Room: SCE 216

Organizers: Fabrizio Galeazzi, Heather Richards-Rissetto		
8:30 AM	Johnson, Ian , Building Web-Based Integration from Data Model through Tablet Data Collection to Analysis	
8:50 AM	Jensen, Peter, Semantically Enhanced 3D: Introducing a Web-Based Platform for Spatial Integration of Excavation Documentation	
9:10 AM	Cuy, Sebastian, Jan Wieners, Daniel de Oliveira, iDAI.Field 2.0 - A Modern & Open Framework for Field Recording	
9:30 AM	Landeschi, Giacomo, Danilo Marco Campanaro, Nicolò Dell'Unto, A 3D Web- Aided Resource for Pompeian Studies (3D WARPS)	
9:50 AM	Zerbini, Andrea , Building a Heritage Management Platform for Endangered Archaeology in the Middle East and North Africa	
10:10 AM	Lang, Matthias, Michael Derntl, Spacialist – A Virtual Research Environment for the Spatial Humanities	
10:30 AM	Coffee Break	
10:50 AM	Pouncett, John, Chris Green, Chris Gosden, Mark Pollard, A Tale of Two Projects: The Role of Web-GIS in Collaborative Research	
11:10 AM	Karenowska, Alexy, What do Web-Based Platforms Mean for the Ambitions of Archaeology?	

11:30 AM **Wright, Holly**, One Size does not Fit All: Reflections on Online Research

Infrastructures

11:50 AM **Opitz, Rachel**, Publishers and Archives as Fieldwork Collaborators

12:10 PM Discussion

3DVR Caveats and Accomplishments

VR Room: SCE 217

Organizer: Willeke Wendrich

8:30 AM	Wendrich, Willeke, 3DVR Caveats and Accomplishments - Introduction
8:50 AM	Elgewely, Eiman, Evaluation and Enhancement of the Virtual Experience: The Case Study of the "Reviving Karanis in 3D" Project
9:10 AM	Mezzano, Michela, Noemi Mafrici , Saving the Nubian Temples: The Study of the History through Digital Tools
9:30 AM	Champion, Erik , <i>PublicVR and its</i> <i>Relevance to 3DVR and Virtual Heritage</i>
9:50 AM	Payne, Angie, Vance Green, Fred Limp, History Erased and History Recovered: (Re)Creating the Rohwer Japanese Interment Camp
10:10 AM	Wolter, Thomas , <i>Photogrammetric Feature Documentation and Cave Modelling</i>
10:30 AM	Coffee Break
10:50 AM	Vurpillot, Damien , Exploring Massive Point Clouds: How to Make the Most Out of Available Digital Material
11:10 AM	Kuester, Falko, Vid Petrovic , Giga-Point Rendering for 3D VR
11:30 AM	Follett, Forrest, Kyle Urquhart, A 3D Visualization of Ceramic Materials form Gabii, Italy
11:50 AM	Discussion

Mobile GIS and Field Survey - Current Possibilities, Future Needs

GIS Room: SCE Auditorium

Organizers: Nazarij Buławka, Julia Chyla

8:30 AM	Knoop, Peter , Best Practices for Mobile GIS and Information Technology in the Field
8:50 AM	Hill, Austin , Low Cost, High Accuracy Drone Survey Methods
9:10 AM	Chyla, Julia, Miłosz Giersz, Wiesław Więckowski, Patrycja Prządka-Giersz, Roberto Pimentel-Nita, One Step Further beyond Field Survey
9:30 AM	Miszk, Łukasz, Wojciech Ostrowski, Weronika Winiarska, Urban sprawl vs. Archaeological Site: A View from Paphos.

Pethen, Hannah, Accessing the 9:50 AM Inaccessible: Detailed 'Off-Site' Archaeological Survey using Satellite Imagery and GIS at the Hatnub Travertine Quarries, Egypt

Buławka, Nazarij, Ancient Landscapes and 10:10 AM Present-day Agriculture – On the Example of Tejen River (Turkmenistan)

Contributions to Settlement Theory? Archaeological Location Analysis and Modelling

GIS Room: SCE House

Organizer: Kenneth Kvamme

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8:30 AM	Smith, Karl, Locations in Experience: Visibility, Seafaring, and the Placement of Pembrokeshire's Iron Age Coastal Promontory Forts
8:50 AM	Negre, Joan, A Geographically Based Ripley's Function to Assess Settlement Patterning
9:10 AM	Zipser, Jan , Possible Strategy of Land Use by the Przeworsk Culture People in Widawa Basin (South-Western Poland) and the Probable Settlement Processes
9:30 AM	Micle, Dorel, Landscape and Economics: A GIS Location Analysis of Middle Age Water Mills from Banat Region (Romania)
9:50 AM	Tsonev, Tsoni , Complexity of Mesolithic Settlements in Northeastern Bulgaria
10:10 AM	Discussion
10:30 AM	Coffee Break
10:50 AM	Higginbottom, Gail, Roger Clay, Human

Scale and its Impact on Location Modelling

11:10 AM	Whitley, Thomas, Blurring the Lines
	Between Prediction and Interpretation:
	Some Thoughts on the Contributions of
	Energetics, Mobility, and 3D Models to
	Settlement Theory.

Shaffer, Derek, Timothy Murtha, Charles 11:30 AM Golden, Bruce Cook, Elijah Hermitt, Sites, Landscapes, and LiDAR in the Maya Lowlands: Leveraging High Resolution Regional LiDAR for Improved Predictive Models.

Hobbs, Elizabeth, Michael Bergervoet, 11:50 AM Designing Locational Models to Test Settlement Theory

p Riris

	Settlement Theory
12:10 PM	Discussion
Everytl	ning wrong with
	Critical Reflections Room: SCW 460/462
Organizers:	Doug Rocks-Macqueen, Stefani Crabtree, Philip
8:30 AM	Dennis, L. Meghan, Ethics? Ethics? Anyone?
8:40 AM	Crabtree, Stefani, Communicating Archaeological Research to the Press and the Public
8:50 AM	Rocks-Macqueen, Doug, F*ck Public Archaeology
9:00 AM	Huggett, Jeremy , Everything Wrong With Digital Archaeology
9:10 AM	Gruber, Ethan , Challenges in Analysing Sensitive or Uncertain Data in a Semantic Web Environment
9:20 AM	Graham, Shawn , Everything Wrong with Bots: On Algorithmic Madness
9:30 AM	Riris, Phil , "Twitter is Actually Stupid" - @fart
9:40 AM	Layt, John, Open Source: You're Doing it all Wrong
9:50 AM	Discussion
10:30 AM	Coffee Break
10:50 AM	Newhard, James, Turning the Ship without Rocking the Boat: Establishing Archaeological GIS within an Undergraduate Experience
11:00 AM	Brughmans, Tom , Everything Wrong with Exploratory Network Analysis of Archaeological Similarity Networks
11:10 AM	Walthew, Jessica , The Aura as Metadata, The Aura of Metadata

Opitz, Rachel, How We Measure Shape

11:20 AM

11:30 AM	Johnson, Phyllis, How Can Something so Small Cost so Much? Cost- and Time- Efficiency in Microartifact Analysis
11:40 AM	Eriksen, Kristin, 3D-models in Archaeology
11:50 AM	Romanowska, Iza, Everything Wrong with Archaeological Models
12:00 PM	Cooper, Catriona, Everything Wrong with Acoustical Modelling
12:10 PM	Discussion

Archaeological Networks: Uncertainty, Missing Data, and Statistical Inference

		Data, and Statistical Inference
		Networks/Modeling Room: SCW 464
	Oı	ganizers: Tom Brughmans, Matt Peeples
8:3	30 AM	Blair, Elliot, Social Networks of Mission Santa Catalina de Guale: Comparing and Contrasting Unimodal and Bimodal Approaches
8:5	50 AM	Upton, Andrew, Frontier Networks: Cultural Transmission and Multiple Relations at the Intersection of Mississippian and Oneota Worlds
9:1	10 AM	Munson, Jessica, Viviana Amati, Habiba Habiba, Jonathan Scholnick, Matthew Looper, Yuriy Polyukhovych, Martha Macri, Diffusion Networks and the Transmission of Dynastic Rituals in Classic Maya Society
9:3	30 AM	Golitko, Mark, Historical Contingency in Network Data: Examples from Museum Collections Research
9:5	50 AM	van Havre, Grégoire, Networks as a Theoretical Framework for Rock Art Studies in Northeast Brazil
10	:10 AM	Johnson, Kent, Social Network Analysis of Ancient Families: Exploring the Effects of Known Unknowns using Phenotypic Data from Documented Collections of Human Skeletal Remains
10	:30 AM	Coffee Break
10	:50 AM	Crabtree, Stefani , Analyzing Trophic Networks among the Ancestral Pueblo
11	:10 AM	Groenhuijzen, Mark, Philip Verhagen, Continuity and Discontinuity in Transport Networks of the Dutch Limes Zone
11	:30 AM	Prignano, Luce, Sergi Lozano, Ignacio Morer, Francesca Fulminante, Comparing Network Models for the Evolution of Terrestrial Connections in Central Italy (950—500 BC ca)

11:50 AM Brandes, Ulrik, Tom Brughmans, New Methods for Visibility Networks in Landscape Archaeology

12:10 PM Discussion

Close Range 3D Data Acquisition, Processing, Querying and Presentation in Cultural Heritage

3D Acquisition / Object Modeling Room: SCW 466/468

Organizers: Dirk Rieke-Zapp, Vera Moitinho de Almeida,
Diego Jiménez-Badillo

	Diego Jiménez-Badillo
8:30 AM	Kampel, Martin, Juraj Sarkisjan, Feasibility Study of Consumer Electronic Scanning Devices for Pottery Documentation
8:50 AM	Filippucci, Marco, Fabio Bianconi, Sofia Catalucci, Gianluca Rossi, Drawing, Survey, Measure to Analyzing the Reliability of Photomodelling for Cultural Heritage
9:10 AM	Kristensen, Steinar, Magne Samdal, One Stone, Two Men, Three Methods: Different Methods – Different Data? Rockart Analysis Testing RTI, Photogrammetry and Laserscan
9:30 AM	Krohn, Anna, Miriam Clinton, Ian Roy, One Size Does Not Fit All: A Comparison of 3D Data Capture
9:50 AM	Noble, Tommy, Neffra Matthews, Good Photogrammetry, Good Data, Good Science
10:10 AM	Discussion
10:30 AM	Coffee Break
10:50 AM	Rossi, Maria Laura, Carlo Inglese, Antonio Pizzo, Leonardo Paris, Geometry as Matrix of Construction of Power Stone

- Antonio Pizzo, Leonardo Paris, Geometry as Matrix of Construction of Roman Stone Bridges. The Augustus Bridge in Narni.
- 11:10 AM Scafuri, Michael, The Integration of Multiple 3D Documentation Methodologies in the Modeling and Analysis of an American Civil War Submarine.
- 11:30 AM Mudge, Mark, Carla Schroer, Challenges and Insights from the Photogrammetric Capture of a Large-Scale Diego Rivera Fresco
- 11:50 AM **Johnson, Tyler**, 3D User Interfaces at the Nexus of Technical Processing and Creative Design in Digital Archaeology
- 12:10 PM Kai-Browne, Arie, Thomas Bremer, Kay Kohlmeyer, Julia Gonnella, Sebastian Plesch, Susanne Brandhorst,
 Contextualizing Cultural Heritage The Cupola of the Torres de las Damas in the Alhambra

THURSDAY AFTERNOON

Corpus of Analysis in the Research on Ancient Eastern Mediterranean and Western Asia: Encoding, Information Collection, Digital Collaboration, and Investigating Strategies

Collaborative Data Management Room: SCE 216

Organizers: Vanessa Juloux, Alessandro di Ludovico

2:00 PM	Di Ludovico, Alessandro , Data Description and Integrated Study of Ancient Near Eastern Works of Art: The Potential of Cylinder Seals
2:20 PM	Ramazzotti, Marco, Landscape Archaeology and Artificial Intelligence: The Neural Hypersurface of the Mesopotamian Urban Revolution
2:40 PM	Prosser, Miller , Digital Philology in the Ras Shamra Tablet Inventory Project: Text Curation through Computational Intelligence
3:00 PM	Eraslan, Doğu, Epigraphic Interoperability in/of Encoded Ancient Texts: Some Principals and Deliverables at the Current State of our Encoding Schemes Based on an Encoding of Quadrilingual Vase of Darius I and Some Prospects for the Future

Exploring the Symbiotic Relationships of Archaeology and Spatial Humanities

3:20 PM

Pagé-Perron, Émilie, Terhi Nurmikko-

Fuller, Vanessa Juloux, Enhancing Collaboration between Digital Assyriology Projects Through Open Access Practices

Broader View - Digital Archaeology and the Humanities

Room: SCE 216

Organizers: Armin Volkmann, Heather Richards-Rissetto

4:00 PM	Athanassopoulos, Effie, Kim Shelton, Archaeological Practice and 3D Modeling: A Medieval Ceramic Assemblage from Nemea, Greece
4:20 PM	Isaksen, Leif, Rainer Simon, Elton Barker, Valeria Vitale, Rebecca Kahn, Supporting Community Annotation with Recogito 2

	Golden, Elijah Fleming, Lorraine Haricombe, In Search of Common Ground: Time, Tradition, and Temporal Reconciliation in PeriodO2
5:00 PM	Schmidle, Wolfgang, Sebastian Cuy, Nathalie Kallas, Florian Thiery, Jan Wieners, Analyzing Reasons for Different Datings of Periods using the ChronOntology Time Gazetteer
5:20 PM	Kondo, Yasuhisa, Akira Saito, Nozomi Mizota, Tomoko Koyama, Synergistic Collaboration between Data Visualization Experts and Historians in Developing a Geodatabase of Forced Resettlement in the Colonial Andes

4:40 PM

5:40 PM

Rabinowitz, Adam, Ryan Shaw, Patrick

3D Technologies Applied to Music and Sound

Discussion

VR Room: SCE 217

Organizers: Bernard Frischer, Jared Katz

2:00 PM	Till, Rupert, Integrating Accurate Interactive Acoustics, Music and Soundscapes into Interactive 3D Models of Archaeological Sites and Landscapes
2:20 PM	Kolar, Miriam, José Cruzado Coronel, Auralizing Ancient Spaces: Sonic Re- Presentation from Architectural Models, In- Situ Measurements, and Experimental Analogues
2:40 PM	Katz, Jared , 3D Maya Music: Use of 3D Models for the Creation of Typologies and for Public Outreach
3:00 PM	Puglisi, Julia , Acoustics of the South Theatre at Hadrian's Villa: A Preliminary Study using I-Simpa
3:20 PM	Kimber, Andres , Sound and Vision of Cup- marked Stones in Rebala Heritage Reserve, Estonia
3:40 PM	Coffee Break
4:00 PM	Koller, Jared , Multi-Sensory Landscape Analysis of Spanish Mission Building Practices in the Philippines
4:20 PM	Cooper, Catriona, Listening to the

Commons: Acoustically Modelling the Pre-1834 House of Commons, Westminster

Discussion

4:40 PM

Contributions to Settlement Theory? Archaeological Location Analysis and Modelling

GIS Room: SCE House

Organizer: Kenneth Kvamme

Verhagen, Philip, Antonin Nüsslein, 2:00 PM Laure Nuninger, To Boldly Go Where No One Has Gone Before: Integrating Sociocultural, Environmental and Temporal Factors in Site Location Analysis and Predictive Modelling Kvamme, Kenneth, The Dimensions of 2:20 PM Settlement Choice Cuthbertson, Patrick, A Landscape-Based 2:40 PM Approach Assessing Hominin Occupation and Dispersal in Lower-Middle Pleistocene Central Asia Discussion 3:00 PM

Structural Analysis for Cultural Heritage

3D Acquisition / Object Modeling Room: SCW 460/462

C 2:0 2:2 2:4 3:0 3:2 3:4 4:0 4:2

Analysis in Archaeological Simulation and Interpretation: A Case Study of Medieval Winchester Cathedral Close Gil, Ana, A Methodology for Architectural 5:00 PM Heritage's Digital Reconstructions: Lisbon Religious Houses as Case Study Meyer, Dominique, Gianmarco Guerra, 5:20 PM Eric Lo, Michael Hess, Davide Forcellini, Falko Kuester, Comparing Measured Frequency Responses of the Third Tower of San Marino to Simulation Derived Frequency Responses from a Photogrammetry and LIDAR Acquired 3D Rissolo, Dominique, Michael Hess, Jose 5:40 PM Huchim Herrera, Eric Lo, Vid Petrovic, Dominique Meyer, Falko Kuester, Fabio Amador, Preliminary Structural Assessment of a Unique Maya Building Platform at Oxkintok, Yucatan

4:40 PM

Miles, James, The Potential of Structural

Archaeological Networks: Uncertainty, Missing Data, and Statistical Inference

Networks/Modeling Room: SCW 464

Organizers: Tom Brughmans, Matt Peeples

Organizers	: Falko Kuester, Michael Hess, Dominique Rissolo	2:00 PM	Rivals, Cécile , The Modeling of Urban Spatial Dynamics in Long Time Spans	
00 PM	Ippolito, Alfonso, Carlo Inglese, Martina Attenni, Valeria Caniglia, Quantity vs Quality: Advantages and Disadvantages of Imaged Based Modelling	2:20 PM	Habiba, Habiba, Viviana Amati, Jessica Munson, Jonathan Scholnick, Yuriy Polyukhovych, Matthew Looper, Martha Macri, Inferring Influence Networks of	
20 PM	Novel Pipeline for the Structural Analysis of		Grapheme Innovation in Classic Maya Hieroglyphic Writing	
40 PM	3D Digitized Cultural Heritage Napolitano, Rebecca, Tim Michiels, Branko Glisic, Digital Workflow for	2:40 PM	Gjesfjeld, Erik , Centrality Measurements and their Application to Archaeological Data	
00 PM	Structural Analysis of Discontinuous Media Hess, Michael , Non-Destructive Techniques for the Structural Health Assessment of	3:00 PM	Peeples, Matthew, John Roberts , Bootstrap Methods for Assessing Variability in Archaeological Networks	
20 PM	Historic Buildings Wittich, Christine, Tara Hutchinson, Seismic Response of Geologic and Heritage	3:20 PM	Cardinal, James, Unscrambling the Egg: Quantitative, Assemblage-Based Component Consociation Methods for Densely Mixed or	
	Structures: Geometry Acquisition, Numerical Modeling, and Probabilistic Interpretation	3:40 PM	Disturbed Contexts Coffee Break	
40 PM	Coffee Break	4:00 PM	Collins-Elliott, Stephen, Accounting for Sample Size: Measuring Cultural	
00 PM	Wood, Richard, M. Ebrahim Mohammadi, Lidar Damage Evaluation of		Distinction through Monte Carlo Approximations of Hellinger Distances	
	Historic Temple after the 2015 Gorkha Earthquake	4:20 PM	Gauthier, Nicolas, Assessing the Impact of Parametric Uncertainty in a Simple Model	
20 PM	Schubert, Lutz, Keith Jeffery, Interpreting Shell Middens through Physics Simulation		of a Social-Ecological Network	
	shen madens invaga i nysics simulaton	4:40 PM	Gravel-Miguel, Claudine , Using an ABM to Evaluate the Impact of Missing Links on our Interpretation of Social Networks	

5:00 PM Discussion	3:00 PM	3:00 PM Porter, Samantha, Morgan Roussel, Marie Soressi, A Comparative Analysis of Châtelperronian and Protoaurignacian Blade Core Technology Using Data Derived from 3D Models
Close Range 3D Data Acquisition,		
Processing, Querying and Presentation in Cultural Heritage	3:20 PM	Murray, Michael, Practical Applications of Underwater Laser Scanning in Maritime
3D Acquisition / Object Modeling		Archaeology Compared to Micro- Bathymetry Sonar and Photogrammetry
Room: SCW 466/468	3:40 PM	Coffee Break
Organizers: Dirk Rieke-Zapp, Vera Moitinho de Almeida, Diego Jiménez-Badillo	4:00 PM	Jiménez-Badillo, Diego, Salvador Ruíz- Correa, Mario Canul-Ku, Rogelio
2:00 PM Ricke-Zapp, Dirk, Quantitative Analysis Based on 3D data - Examples		Hasimoto-Beltrán, Application of a 3D Morphing Technique to Analyze the Style of Archaeological Models
2:20 PM Pakhunov, Alexander, Ekaterina Devlet, Alexander Popov, How Can We Trace Translocated Boulders with Petroglyphs at the Riverbank?	4:20 PM	Hanes, Laurence, Tim Collins, Sandra Woolley, Classifying the Surfaces of Virtual Cuneiform Tablet Fragments
2:40 PM McKee, Arlo, A Glimpse at Site Formation Processes from 3D Laser Scanning Ceramic Sherds in Fast Texas	4:40 PM	Mara, Hubert, Revealing Degraded Script in High Resolution 3D Measurement Data with GigaMesh
Shelus in Lust Iesus	5:00 PM	Discussion