TUESDAY MORNING

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

9:50 AM - 10:10 AM	**Rocks-Macqueen, Doug**, *The Last of the Publishers*
10:10 AM - 10:30 AM	**Roued-Cunliffe, Henriette, Peter Jensen**, *What is Open Data in an Archaeological Context?*
10:30 AM - 10:50 AM	**Brin, Adam, Francis Pierce-McManamon, Leigh Anne Ellison**, *The Challenges of Open Access for Archaeological Repositories*
10:50 AM - 11:10 AM	**Kondo, Yasuhisa, Atsushi Noguchi**, *Best Practices and Challenges in Promoting Open Science in Archaeology: Two Narratives from Japan*
11:10 AM - 11:30 AM	**Rodier, Xavier, Olivier Marlet**, *How to Combine Archaeological Archives, Linked Open Data and Academic Publication, a French Experience*
11:30 AM - 11:50 AM	**Buard, Pierre-Yves, Elisabeth Zadora-Rio**, *Publishing an Archaeological Excavation Report in a Logicist Workflow*
11:50 AM - 12:10 PM	**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 - 10:10 AM	**Pageau, Hanna**, *An Inclusive Archaeology: Being Able in Archaeology*
10:10 AM - 10:30 AM	**Foreman, Penelope**, "*Well, actually...": The Othering of Women in the Computing and Programming Communities and its Effects on Digital Archaeology*
10:30 AM - 10:50 AM	**Ni Chiobhain Enqvist, Delia**, *Whose (maritime) Archaeology is It Anyway?*
10:50 AM - 11:10 AM	**Hassett, Brenna, Suzanne Pilaar Birch, Victoria Herridge, Rebecca Wragg Sykes**, *TrowelBlazers: Raising Horizons for a Diverse Digital Archaeology*
11:10 AM - 11:30 AM	**Corley, Hugh**, *Privilege and Digital Archaeology*
11:30 AM - 11:50 AM	**Richardson, Lorna-Jane**, *Digital Archaeology and Digital Inequalities: A View from a Sociology Department*
11:50 AM - 12:30 PM	*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 - 10:10 AM	**Cabaniss, Andrew**, *Diversity from the Bottom Up: Modeling Cities as Communities of Diverse Households*
10:10 AM - 10:30 AM	**Cesaretti, Rudolf**, *Re-Evaluating Settlement Population Estimation: An Analogue-Based Method for Modeling Patterned Variation in Population Density*
10:30 AM - 10:50 AM	**Levine, Evan, Daniel Plekhov**, *Patterns of Urbanism in Bactria: Reevaluating a Paradigm Through Remote Sensing*
10:50 AM - 11:10 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 GIS and Archaeology for a Comparative Analysis of Palenque, Tikal, and El Peru*
11:10 AM - 11:30 AM	**Baumanova, Monika, Ladislav Smejda, Heinz Ruther**, *The Streets of Timbuktu Old Town. Moving Goods, People and Ideas on the Coast of the Sahara*
11:30 AM - 11:50 AM	**Shpuza, Ermal**, *The Effect of Gridiron Street Pattern on the Urban Growth of Adriatic and Ionian Coastal Cities 1800-2010*

11:50 AM - 12:10 PM	**Crawford, Katherine**, *Unravelling Urban Religious Landscapes: Modelling Processions at Ostia*
12:10 PM - 12:30 PM	**Klassen, Sarah, Jonathan Weed, Damian Evans**, *Discerning the Urban Morphology of Angkor Using a Semi-Supervised Algorithm for Manifold Learning*

General Papers

General - GIS

Room: SCE House

Organizers: , , , ,

9:50 AM - 10:10 AM	**Caswell, Edward**, *An Analysis of Selected Variables that Affect the Production of Cost Surfaces*
10:10 AM - 10:30 AM	**Becker, Daniel, Christian Willmes, Andreas Bolten, María de Andrés-Herrero, Gerd-Christian Weniger, Georg Bareth**, *Influence of Differences in Digital Elevation Models and their Resolution on Slope-Based Site Catchment Modelling*
10:30 AM - 10:50 AM	**Beusing, Ruth**, *Temporal-GIS Tools for Mixed and Meso-scale Archaeological Data*
10:50 AM - 11:10 AM	**James, Vivian**, *Context as Theory: Towards Unification of Computer Applications and Quantitative Methods in Archaeology*
11:10 AM - 11:30 AM	**Sharp, Kayeleigh**, *Testing the 'Small-Site' Approach with Multivariate Spatial Statistical and Archaeological Network Analysis*
11:30 AM - 11:50 AM	**Groen, Mike**, *Geospatial Analysis, Predictive Modelling and Modern Clandestine Burials*
11:50 AM - 12:10 PM	**Slayton, Emma, Jan Athenstädt, Corinne Hofman, Jan Hildenbrand**, *Seafaring with Mental Sign Posts: Connecting Materials with Canoe Routes in the Archaic Age Northern Lesser Antilles*

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

Broader View - Digital Archaeology and the Humanities

Room: SCW 460/462

Organizers: Herbert Maschner, Thomas Levy

9:50 AM - 10:10 AM	**Maschner, Herbert**, *CVAST: The USF Center for Virtualization and Applied Spatial Technologies*

10:10 AM - 10:30 AM	**Levy, Thomas, Margie Burton**, *The UC San Diego Center for Cyber-Archaeology and Sustainability*
10:30 AM - 10:50 AM	**Forte, Maurizio**, *The Dig@Lab at Duke University*
10:50 AM - 11:10 AM	**Watrall, Ethan**, *MATRIX: The Center for Digital Humanities & Social Sciences*
11:10 AM - 11:30 AM	**Foley, Catherine**, *KORA: A Digital Repository for Cultural Heritage Collections*
11:30 AM - 11:50 AM	**Watrall, Ethan**, *mbira: A Platform to Build, Serve, and Manage Mobile Heritage Experiences*
11:50 AM - 12:10 PM	**Tanasi, Davide**, *Learning Through Objects: 3D Digital Imaging, 3D Printing and Haptic Technology for Public Outreach in Archaeology*
12:10 PM - 12:30 PM	**Colobran, Miquel, Juan Antonio Barcelo, Igor Bogdanovic**, *Reusing Archeological Information to Improve Modeling and Research. An Interoperability Data Schema.*

NEH Roundtable on Advanced Challenges in Theory and Practice in 3D Modeling

3D Acquisition / Object Modeling

Room: SCW 464

Organizers: Alyson Gill, Heather Richards-Rissetto, Lisa Snyder

9:50 AM - 10:10 AM	**Carter, William**, *The Life of Attributes: Meta and Paradata as 3D Point and Object DNA for Heritage Providence*
10:10 AM - 10:30 AM	**Clinton, Miriam**, *A Workflow to Integrate 3D Data Acquisition with Traditional Artifact Study? Lessons from Mouliana*
10:30 AM - 10:50 AM	**Ulguim, Priscilla**, *3D Digital Models and Bioarchaeology: Challenges and Proposals for Practice*
10:50 AM - 11:10 AM	**Massari, Lauren, William Rourk, Shayne Brandon, Jama Coartney, Worthy Martin, Chip German**, *Challenges in Processing, Delivering, and Archiving Large Amounts of 3D Data*
11:10 AM - 11:30 AM	**Mudge, Mark**, *Computational Photography, Scientific Imaging, and the Preservation of 3D Digital Representations*
11:30 AM - 11:50 AM	**Richards-Rissetto, Heather**, *Challenges of Peer-review: Where Does 3D Archaeological Scholarship Fall Under the Umbrella of Digital Humanities Scholarship?*

11:50 AM - 12:30 PM	**Richards-Rissetto, Heather**, *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 - 10:10 AM	**Luce, Fabio**, *Digital Surveying and Ideal Reconstruction for Total Hybrid Model. The Case of Fort Presanella in Val di Sole.*
10:10 AM - 10:30 AM	**Filippucci, Marco, Fabio Bianconi, Federica Magi Meconi**, *Models and Parameterization of the Five Orders of Architecture*
10:30 AM - 10:50 AM	**Eve, Stuart, Guy Hunt, Michael Johnson, Jessica Ogden, John Layt**, *10 Years of Online Archaeological Databases - Revolution, Convolution, Evolution*
10:50 AM - 11:10 AM	**Empler, Tommaso**, *3D Modeling to Reconstruct a Paleontological Site: Museum of Casal de' Pazzi in Rome*
11:10 AM - 11:30 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 - 11:50 AM	**Caldarone, Adriana**, *3D Printing and Augmented Reality: Integration, Methods and Communication for Cultural Heritage.*
11:50 AM - 12:10 PM	**Bercigli, Monica, Stefano Bertocci**, *Digital Documentation of Masada Fortress in Israel: Integrated Methodologies of Survey and Representation*
12:10 PM - 12:30 PM	**Carnevali, Laura, Marco Carpiceci, Andrea Angelini**, *Problems Concerning Elaboration and Representation in Italian Rock-hewn Architecture*

TUESDAY AFTERNOON

Digital Archaeology - Where are We and How do We Fit In?

Critical Reflections

Room: SCE 216

Organizers: Paul Reilly, John Pouncett, Stephen Stead

12:30 PM - 1:30 PM	**Brin, Adam, Francis Pierce-McManamon, Leigh Anne Ellison**, *The Archaeological Data Lifecycle*

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

Education and Dissemination

Room: SCE 216

Organizer: Jeffrey Emanuel

2:00 PM - 2:20 PM	**Gandolfi, Eleonora**, *Public Engagement in Compulsory-age Education with MOOCs: A Case Study from the Italian and English Context*
2:20 PM - 2:40 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 - 3:00 PM	**Golubiewski-Davis, Kristina, Samantha Porter, Matt Edling, John Soderberg, Gilbert Tostevin**, *The Use and Reuse of 3D Scanned Lithic Refits*
3:00 PM - 3:20 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 Com

Critical Reflections

Room: SCE 216

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

4:00 PM - 5:30 PM	**Seymour, Brian**, *General Discussion Outline*

Ground-penetrating Radar Advancements in the Americas

Geophysics/Remote Sensing

Room: SCE 217

Organizer: Peter Leach

2:00 PM - 2:20 PM	**Morris, Isabel**, *Today's Surveys and Tomorrow's Inversions: GPR Attribute Analysis*
2:20 PM - 2:40 PM	**Sturm, Jennie**, *Ground-Penetrating Radar in Chaco Canyon, New Mexico: 40 years of Mapping Chaco's Buried Past*

2:40 PM - 3:00 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 - 3:20 PM	**Leach, Peter, Richard Boisvert**, *High-frequency GPR for Real-time 'Digital Bisection' of Archaeological Features*

Non Invasive Methods to Assess Above and Underground Spatial Pattern

Geophysics/Remote Sensing

Room: SCE 217

Organizers: Michael Märker, Christian Sommer

4:00 PM - 4:20 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 - 4:40 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 - 5:00 PM	**Pihokker, Matthew**, *Determining Spatial Relationships Between Domestic Sites and Cemeteries of the Central Peloponnese*
5:00 PM - 5:20 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 - 2:20 PM	**Chase, Adrian**, *Erasing the Garden City: Interpolation of Architectural Volume from LiDAR Derived DEMs*
2:20 PM - 2:40 PM	**Prufer, Keith, Amy Thompson**, *Processes of Urban Development Among the Ancient Maya of Uxbenká and Ix Kuku'il, Southern Belize*
2:40 PM - 3:00 PM	**Hare, Timothy**, *Mapping and 3D Modeling at the Household, Neighborhood, and Regional Levels Using UAVs, Photogrammetry, and LiDAR*
3:00 PM - 3:20 PM	**Forte, Maurizio, Nevio Danelon, David Johnston, Katherine McCusker, Everett Newton**, *Vulci3000 Project - A Digital Challenge*

3:20 PM - 3:40 PM	**Landeschi, Giacomo, Stefan Lindgren, Jesper Blid Kullberg, Henrik Gerding, Alcestis Papadimitriou, Jenny Wallensten, Nicolò Dell'Unto, Angeliki Kossiva**, *Integrated Digital Methods for Investigating a Hidden Cityscape: The Case of Ancient Hermion*
4:00 PM - 4:20 PM	**Kubicka, Anna**, *The Metrological Research of Machu Picchu Settlement. Application of a Cosine Quantogram Method for 3D Laser Data.*
4:20 PM - 4:40 PM	**Vadala, Jeffrey, Brian Denham**, *Virtual Reality as a Tool for Spatial Analysis at Cerro Maya, Belize (Cerros)*
4:40 PM - 5:00 PM	**Goodwin, Graham, Heather Richards-Rissetto**, *Modeling Acoustics in Ancient Maya Cities: Moving Towards a Synesthetic Experience Using 3D Simulation*
5:00 PM - 5:20 PM	**Hanus, Kasper**, *Understanding Urban Pattern of Silk Road Oasis-Cities Using Archival Aerial Images.*
5:20 PM - 5:40 PM	*Discussion*

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

Broader View - Digital Archaeology and the Humanities

Room: SCE House

Organizers: Herbert Maschner, Thomas Levy

5:40 PM - 7:30 PM	**Elliott Smith, Rosemary, Taylor Harman, Carolyn Breeze, Thomas Levy**, *ArchaeoSTOR: A User-friendly Archaeological Database*
5:40 PM - 7:30 PM	**Lu, Qin-Qin, Zhengyao Jin**, *Scientific Database and the Big Data Approach for the Bronze Age of China*
5:40 PM - 7:30 PM	**Du Vernay, Jeffrey**, *3D Mapping and Visualizing the Galerie de paléontologie et d'anatomie comparée at the Muséum national d'histoire naturelle, Paris*
5:40 PM - 7:30 PM	**McLeod, James**, *Three-Dimensional Documentation and Examination of a Medieval Period Cistern at Alarcos in the Castilla-La Mancha Region of Spain*
5:40 PM - 7:30 PM	**Howland, Matthew**, *Developing a Standardized Workflow for Digital Preservation and Analysis of Archaeological Ceramics*
5:40 PM - 7:30 PM	**Banaszek, Łukasz, Kamila Oleś**, *Data Hub for Early Medieval Architecture? Crossing the Borders of an Unfriendly Tradition*
2:00 PM - 2:20 PM	**Banaszek, Łukasz, Kamila Oleś**, *Making Use of the Publicly Available Spatial Data and Bringing the Past to the People: a Case Study of the Pomeranian Wall, Poland*

2:20 PM - 2:40 PM	**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 - 3:00 PM	**Harrison, Laura**, *Mobilizing a Salvage Archaeology Dataset to Build a 3D Interpretive Visualization*
3:00 PM - 3:20 PM	**Smitheram, Craig, Thomas Levy**, *The Center for Cyber-Archaeology and Sustainability (CCAS): Pedagogy and Student Engagement in At-Risk World Heritage Initiatives*
3:20 PM - 3:40 PM	**Lercari, Nicola, Jeffrey Weekley**, *Leveraging the UC Merced WAVE and Pacific Research Platform to Create At-Risk Global Cultural Heritage Networks*
4:00 PM - 4:20 PM	**Frey, Jon**, *From Analog to Digital in Archaeological Archives*
4:20 PM - 4:40 PM	**Spring, Adam**, *Solutions in Photogrammetric Selectivity. Optimizing High Fidelity Meshes from Casual Photography. The Trajan's Forum Project Examples*
4:40 PM - 5:00 PM	**Forte, Maurizio, Nevio Danelon, Julia Liu**, *The Trajan's Forum Project: Dig@lab and the Framework of Big Data.*
5:00 PM - 5:20 PM	**Liss, Brady, Matthew Howland, Thomas Levy**, *Running on Autopilot: Testing Google Earth Engine for the Automatic Identification of Archaeological Features in Satellite Imagery*
5:20 PM - 5:40 PM	**Johnson, Andrew, Steve Savage, Tom Levy**, *The ASOR Cultural Heritage Initiative-TerraWatchers Collaborative: Crowd-Sourced Monitoring of At Risk Cultural Heritage Sites in the Middle East*

Methods, Tools, Disruption ... : From Information Delivery to Interaction

Broader View - Digital Archaeology and the Humanities

Room: SCW 464

Organizer: Ian Johnson

2:00 PM - 2:10 PM	**Gunn, Scott**, *Archaeological Field Data Collection Using Ruggedized Android Tablets and Free and Open Source Software*
2:10 PM - 2:20 PM	**Brennan, Matthew, Bernard Frischer**, *Photomodeling for Rapid Documentation and Survey of Complex Urban Spaces and Archaeology*
2:20 PM - 2:30 PM	**Laugier, Elise, Jesse Casana**, *Cultural Heritage Monitoring using Time-Sequenced Satellite Imagery: A Case Study from the Syrian Civil War*
2:30 PM - 2:40 PM	**Casana, Jesse, Jackson Cothren**, *The CORONA Atlas Project: Orthorectification and Analysis of Declassified, Cold War-era Satellite Imagery*

2:40 PM - 2:50 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*
2:50 PM - 3:00 PM	**Tolle, Karsten, David Wigg-Wolf**, *Improving Data Quality by Rules – A Numismatic example*
3:00 PM - 3:40 PM	*Discussion*

Geographic Relations in Databases on Cultural Heritage

Networks/Modeling

Room: SCW 464

Organizers: Michael Märker, Volker Hochschild, Espen Uleberg, Mieko Matsumoto

4:00 PM - 4:20 PM	**Perucchetti, Laura, Peter Bray, Mark Pollard**, *The Use of GIS to Understand the Circulation of Metal in the Prehistoric Alps*.
4:20 PM - 4:40 PM	**Uleberg, Espen, Mieko Matsumoto**, *Display matters? Enhanced Visualization for Unique Aspects of Norwegian Stone Age Site Distribution*
4:40 PM - 5:00 PM	**Willmes, Christian, Daniel Becker, Yasa Yener, Olaf Bubenzer, Georg Bareth**, *Open Science, e-Science and Geospatial Data Management to Support Research in Archaeology*
5:00 PM - 5:20 PM	**Märker, Michael, Volker Hochschild, Christian Sommer**, *How to Integrate and Illustrate Aspects of Landscape Evolution and Human Evolution*
5:20 PM - 5:40 PM	*Discussion*

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

2:00 PM - 2:20 PM	**Mancini, Matteo Flavio, Leonardo Baglioni**, *Integrated Surveying Techniques for Analysis of Archaeological Artifact*
2:20 PM - 2:40 PM	**Gallozzi, Arturo, Leonardo Paris, Wissam Wahbeh**, *3D Models and Interactive Comunication for Archaeology. The Nymphaeum Ponari in Cassino*

2:40 PM - 3:00 PM	**Carpiceci, Marco, Carlo Inglese, Andrea Angelini**, *Survey, Representation, Analysis and Cataloguing of the Rock-hewn Architecture in Cappadocia*
3:00 PM - 3:20 PM	**Chiavoni, Emanuela, Daniela Esposito**, *The Archaeological Park of the Porto of Traian: Knowledge, Preservation and Fruition*
3:20 PM - 3:40 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 Nasser.*
4:00 PM - 4:20 PM	**Pirinu, Andrea**, *Graphic Analysis of Historic Documents, Architectural Survey, Applied Geophysics in Support of Archaeological Investigation. The Urban Wall of Cagliari (Sardinia, Italy)*
4:20 PM - 4:40 PM	**Attenni, Martina, Alfonso Ippolito**, *Representing Intangible Heritage: Questions About Method*
4:40 PM - 5:00 PM	**Inglese, Carlo, Carlo Bianchini, Alfonso Ippolito, Martina Attenni, Valeria Caniglia**, *Tradition and Innovation: From Worksite Plans to Digital Models*
5:00 PM - 5:20 PM	**Porfiri, Francesca, Carlo Bianchini**, *The Microcosm of Tiberius's Cave in Sperlonga: Analysis, Investigation and Digital Reconstruction of the Ancient "Sculpture's Theatre"*
5:20 PM - 5:40 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*

WEDNESDAY MORNING

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

Education and Dissemination

Room: SCE 216

Organizer: Erik Champion

8:30 AM - 9:00 AM	**Booker, Emily**, *"I Don't Want to Set the World on Fire": Ruin Interactions and Attitudes in Fallout 4*
9:00 AM - 9:30 AM	**Bryant, Robert, Sandra Blakely, Joanna Mundy, Cole Furrh**, *Sailing with the Gods: Argonauts and Samothracians in an Ancient Sea*
9:30 AM - 10:00 AM	**Eve, Stuart**, *How Waterloo was Won*
10:00 AM - 10:30 AM	**Linde, Lennart**, *Blur the Lines – Games as Tools for Archaeological Research*
10:50 AM - 11:20 AM	**Underberg-Goode, Natalie**, *Arpilleras and Ayni: Roleplaying Reciprocity*
11:20 AM - 11:50 AM	**Hiriart, Juan**, *Designing and Using Game Environments as Historical Learning Contexts*
11:50 AM - 12:30 PM	*Discussion*

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

Geophysics/Remote Sensing

Room: SCE 217

Organizers: Arianna Traviglia, Dave Cowley

8:30 AM - 8:50 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 - 9:10 AM	**Kramer, Iris**, *Creating a Future for Automation by Targeting Models to their End-users*.
9:10 AM - 9:30 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 - 9:50 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 - 10:10 AM	**Ramel, Jean-Yves, Clément Laplaige, Xavier Rodier, Shuo Bai**, *Extraction of Linear Structures from LIDAR Images Using a Machine Learning Approach*
10:50 AM - 12:30 PM	*Discussion*

General - Data Management and Textual Analysis

General

Room: SCE 218

Organizers: , , , ,

8:30 AM - 8:50 AM	**Bischoff, Robert**, *Moving Forward with Digital Databases: Current Opinions and Potential Solutions*
8:50 AM - 9:10 AM	**Schroer, Carla, Mark Mudge**, *Digital Lab Notebook Creation for Computational Photography*
9:10 AM - 9:30 AM	**Casey, Christian**, *Digital Demotic: Opportunities and Challenges*
10:50 AM - 11:10 AM	**Gad, Moataz, Yasmin Mohamed**, *Treatment of Lime Stone Colored with Egyptian Blue Pigment Using Different Techniques of Documentation*
11:10 AM - 11:30 AM	**Mohamed, Mohamed**, *Analytical Study and Conservation Processes of Scribe Box from Old Kingdom*
11:30 AM - 11:50 AM	**Bray, Peter, Mark Pollard**, *The Characterisation Hypothesis for Scientific Metallurgy: Classes of Structure in Chemical Datasets and their Visualisation*
11:50 AM - 12:10 PM	**Sonnemann, Till, Jason Laffoon, Termeh Shafie**, *Enhancing Archaeological Material Provenance Studies by Manipulating Isoscapes*

12:10 PM - 12:30 PM	**Foreman, Penelope**, *The Colour Out of Space: Digital Media as Mouthpieces for Material Agency*

From Physical to Digital, From Interactive to Immersive: Uses of Three–Dimensional Representation, Mixed Reality, and More in the Sharing and Exploration of Archaeological Data

VR

Room: SCE Auditorium

Organizer: Jeffrey Emanuel

8:30 AM - 8:50 AM	**Vurpillot, Damien**, *Making Virtual Reality Real: What Can We Learn by Bringing Together Virtual Reality and Visual Attention Analysis?*
8:50 AM - 9:10 AM	**Bremer, Thomas, Sebastian Plesch, Kay Kohlmeyer, Susanne Brandhorst, Arie Kai-Browne, Timo Falke**, *VR:TA - A Virtual Reality Toolset for Archaeologists*
9:10 AM - 9:30 AM	**Hollis, Luke**, *MorgantinaVR: Cityscale Handheld AR and Cross-platform VR for Visulizaing Georeferenced Datasets as a Part of a Microservices Software Architecture*
9:30 AM - 9:50 AM	**Burns, Bryan, Jordan Tynes**, *Excavation Progress and Artifact Manipulations in a Virtual Environment*
9:50 AM - 10:10 AM	**Kamash, Zena**, *Digital Digestion: Roman Food and Digital Objects at Corinium Museum*
10:10 AM - 10:30 AM	**Wescoat, Bonna, Arya Basu**, *On the Dynamics of Interactive Exploration over Animation as Methods of Experiential Simulation in the Sanctuary of the Great Gods on Samothrace*
10:50 AM - 11:10 AM	**Rudov, Ivan**, *Combined Method of 3D Model of Archaeological Objects Optimization for a Mobile App*.
11:10 AM - 11:30 AM	**Beale, Nicole, Gareth Beale, Julian Richards, Dawn Hadley, Jonathan Hook, Guy Schofield**, *Virtual Reality and Storytelling for Viking Archaeology*
11:30 AM - 11:50 AM	**Löwenborg, Daniel, John Ljungkvist, Daniel Westergren, Sebastian Wiberg, Staffan Hagberg**, *Augmented History – A Virtual "Window to the Past"*
11:50 AM - 12:10 PM	**Gonzalez-Perez, Cesar, Martin Pereira-Fariña, Chris Reed**, *Toward an Argument Evaluation System on Cultural Heritage Based on Anchoring Inference Theory*
12:10 PM - 12:30 PM	*Discussion*

Women in CAA

Critical Reflections

Room: SCW 460/462

Organizers: Katie Simon, Sara Gale, Lisa Fischer

8:30 AM - 8:40 AM	**Simon, Katie**, *Introduction*
8:40 AM - 8:50 AM	**Ernenwein, Eileen**, *Implicit Gender Bias? What's that?*
8:50 AM - 9:00 AM	**Rocks-Macqueen, Doug**, *Is Equality Enough?*
9:00 AM - 9:10 AM	**Wendrich, Willeke**, *Bringing out the Best: Mentoring Women in Digital Archaeology*
9:10 AM - 9:20 AM	**Wallrodt, John**, *Increasing Academic Approaches to CAA*
9:20 AM - 9:50 AM	*Discussion*
9:50 AM - 10:00 AM	**Fredrick, David**, *Collision Detection: Reflections on Gender from Game Space to Other Spaces*
10:00 AM - 10:10 AM	**Gonzalez-Tennant, Edward**, *Cyberfeminist Perspectives on the Future of Digital Archaeology*
10:10 AM - 10:30 AM	*Discussion*
10:50 AM - 11:00 AM	**Sturm, Jennie**, *Women in Business in the CAA fields*
11:00 AM - 11:10 AM	**Lowry, Sarah**, *Technical Women in Cultural Resource Management: Amplifying the Importance of Non-Traditional Skill Sets in Modern Archaeology*
11:10 AM - 11:20 AM	**Simon, Katie**, *That Was Not OK. Now What?*
11:20 AM - 11:40 AM	*Discussion*
11:40 AM - 11:50 AM	**Gale, Sara**, *How to Maintain an A-Game!: The Importance of Continued Education for Women in Technical Fields*.

11:50 AM - 12:00 PM	**Safi, Kristin**, *Using Technology to Increase Skill Development, Problem Solving, and Collaboration among Women in the CAA*
12:00 PM - 12:10 PM	**Fischer, Lisa**, *A "Digital Divide": Working to Close the Gender Gap*
12:10 PM - 12:25 PM	*Discussion*
12:25 PM - 12:30 PM	**Fischer, Lisa**, *Closing Remarks*

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

Networks/Modeling

Room: SCW 464

Organizers: Stefani Crabtree, Iza Romanowska

8:30 AM - 8:50 AM	**Crabtree, Stefani**, *An Introduction to Modeling*
8:50 AM - 9:10 AM	**Allison, James**, *Agent-Based Modelling of the Relationships Among Kinship, Residence, and Exchange*
9:10 AM - 9:30 AM	**Weaverdyck, Eli**, *Military Markets in Moesia Inferior: Using Location Analysis and Comparative Modelling to Identify Market Places on Rome's Lower Danubian Frontier*
9:30 AM - 9:50 AM	**Carrignon, Simon, Maria Coto-Sarmiento, Xavier Rubio-Campillo, José Remesal**, *Identifying Social Learning Mechanisms in the Amphorae Production within Roman Empire*
9:50 AM - 10:10 AM	**Graham, Shawn**, *Wetware: Analog Simulation of Roman Socio-Economics*
10:10 AM - 10:30 AM	**van Havre, Grégoire**, *The Dynamics of Brazilian Rock Art Landscape: An Agent-based Modelling Approach to Theories*
10:50 AM - 11:10 AM	**Kay, Andrea, Jed Kaplan**, *Modeling Human-Environment Interaction in Sub-Saharan Africa: Archaeological Data, Ecological Questions*
11:10 AM - 11:30 AM	**Riris, Phil**, *Experiments in Modelling Environmental Impact: A Case Study of Post-Contact Piaroa (Wothuha) Land Use Patterns*
11:30 AM - 11:50 AM	**Kruse, Kristin**, *Spatial Pressure on Alpine Settlements? An Equation Based Case Study in the Silvretta Massif (Switzerland, Canton of Grisons)*

11:50 AM - 12:10 PM	**Reynolds, Adam, Paul Hooper, Stefani Crabtree, Julia Clark**, *Optimizing Long Run Energy Harvesting Strategies in Central Asian Nomadic Pastoralists*
12:10 PM - 12:30 PM	**Romanowska, Iza**, *Hominin Dispersal, Environmental Change and the Evolution of Behavioural Plasticity*

3D Digitization of Sculpture

3D Acquisition / Object Modeling

Room: SCW 466/468

Organizers: Bernard Frischer, Gabriele Guidi

8:30 AM - 8:50 AM	**Frischer, Bernard**, *Digitizing Sculpture: Where We've Been, Where We're Going*
8:50 AM - 9:10 AM	**Vassallo, Valentina, Nicolò Dell'Unto, Sorin Hermon**, *A Quantitative Approach Using 3D Models for a Typo-technological and Manufacturing Study of Terracotta Statuettes. The Case Study of the Ayia Irini (Cyprus) Small Figurines.*
9:10 AM - 9:30 AM	**Brennan, Matthew**, *The Prado Muses - Rethinking the Unity of a Statue Group with the Help of 3D Models*
9:30 AM - 9:50 AM	**Kubicka, Anna, Aleksandra Brzozowska**, *3D Models of Architecture Remains in Archaeological Context. Visualisation as a Tool in Interdisciplinary Research of Polish Archaeological Mission in Kato Paphos on Cyprus.*
9:50 AM - 10:10 AM	**Varner, Eric**, *Digitizing Ancient Sculpture at the Michael C. Carlos Museum, Emory University*
10:10 AM - 10:30 AM	**Guidi, Gabriele, Umair Malik**, *Best Practices and Metrological Issues in Massive 3D Digitization of Sculptures*
10:50 AM - 11:10 AM	**Koutsoudis, Anestis, Georgios- Alexis Ioannakis, Christodoulos Chamzas**, *Incorporating Texture in the Retrieval Process of 3D Models Exploiting Spatial-consistency of Texture Maps*
11:10 AM - 11:30 AM	**Christiaisen, Leif**, *Seymour: Image-based Rendering Solution for High-resolution, Browser-based 3D Graphics*
11:30 AM - 11:50 AM	**Burns, Bryan, Jordan Tynes**, *3D Models for Curatorial Dialogue and Undergraduate Education*
11:50 AM - 12:10 PM	**Sherman, William**, *High-throughput Computing for Large-scale Digitization*
12:10 PM - 12:30 PM	*Discussion*

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

Differing Perspectives: The Wide World of Geophysical Prospection

Geophysics/Remote Sensing

Room: SCE 217

Organizers: Christine Markussen, Petra Schneidhofer

2:00 PM - 2:20 PM	**Kalayci, Tuna, Meropi Manataki, Apostolos Sarris**, *The More the Merrier? Two Conflicting Stances on Multi-Array Sensors*
2:20 PM - 2:40 PM	**Casana, Jesse, Austin Hill, Elise Laugier**, *Advancing Methodologies for Archaeological Aerial Thermography*
2:40 PM - 3:00 PM	**De Smedt, Philippe**, *The Interpretive Potential of Geophysical Landscape Archaeology: An Electromagnetic Perspective*.
3:00 PM - 3:20 PM	**Herrmann, Jason**, *What to do with Ambiguous Anomalies?*
3:20 PM - 3:40 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*
4:00 PM - 4:20 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 - 4:40 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 - 5:00 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 - 5:20 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 - 5:40 PM	*Discussion*

General - 3D Modeling

General

Room: SCE 218

Organizers: , , , ,

2:00 PM - 2:20 PM	**Johnson, Adam**, *Shifting Stones and Data Points: Using Terrestrial Laser Scanning to Assess Damage to Monumental Architecture in Hawai`i*
2:20 PM - 2:40 PM	**Guidi, Gabriele, Laura Micoli, Sara Gonizzi Barsanti**, *Diachronic 3D Reconstruction of Historical Sites in Urban Context*
2:40 PM - 3:00 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

Organizers: Andrew Dufton, Jessica Ogden

4:00 PM - 4:20 PM	**Sheldrick, Nichole**, *Accessing Archaeology: Creating an Open-Access Heritage Database for the Endangered Archaeology in the Middle East & North Africa (EAMENA) Project*
4:20 PM - 4:40 PM	**Huntsman, Theresa, Eric Kansa**, *Context and Community: Accountable, Open Presentation of Digital Archaeology*
4:40 PM - 5:00 PM	**Kamash, Zena**, *'Postcard to Palmyra': Exploring Visitor Responses to the Replica of the Triumphal Arch from Palmyra in Trafalgar Square, London*
5:00 PM - 5:20 PM	**Bianchini, Carlo, Mohammed El Khalili, Nizar Al Adarbeh, Alekos Diacodimitri**, *Survey, 2D and 3D Modelling of the Roman Nymphaeum in Amman: a Multilateral, Cooperative Research Experience*
5:20 PM - 5:40 PM	**Heitman, Carrie**, *Decolonizing an Archive of Archives?*

Path Modelling and the Materiality of Movement

GIS

Room: SCE Auditorium

Organizers: Philip Verhagen, Laure Nuninger, Axel Posluschny

4:00 PM - 4:20 PM	**Caswell, Edward, Michelle De-Gruchy, James Edwards**, *Walking Across Beach Sand is Hard and Other Discoveries: First Results of Assessing the Time Cost of Moving Through Various Terrains*
4:20 PM - 4:40 PM	**Kalayci, Tuna**, *The Volume of Ancient Movement: A Satellite Remote Sensing Approach*
4:40 PM - 5:00 PM	**Field, Sean**, *Least Cost Path Modelling: Computing Functional Correlations in Chacoan Road Systems*
5:00 PM - 5:20 PM	**Rothenberg, Miriam**, *Do All Roads Really Lead to Rome? Modelling Mobility in the Ager Veientanus and the Sangro Valley, Italy*
5:20 PM - 5:40 PM	**Safi, Kristin**, *Considerations for Modeling Mobility and Cultural Interaction Among Maritime Communities*

Visualization as Analysis in Archaeology

Broader View - Digital Archaeology and the Humanities

Room: SCW 460/462

Organizers: Neha Gupta, Michael Carter

2:00 PM - 2:05 PM	**Dallas, Costis**, *Curation at the Sensor's Gaze: Connecting Representation and Performance in Archaeological Visualization*
2:05 PM - 2:10 PM	**Gupta, Neha, Rodolphe Devillers**, *Geographic Visualisation as Knowledge Generation in Archaeology*
2:10 PM - 2:15 PM	**Huggett, Jeremy**, *Continuous Interactivity in Archaeological Visualisation*
2:15 PM - 2:20 PM	**Carter, William**, *Making and Meaning-Making in Virtual Archaeology*
2:20 PM - 2:25 PM	**Higginbottom, Gail, Vincent Mom**, *Place: the Physical Embodiment of Collective Information*
2:25 PM - 2:30 PM	**Denham, Brian**, *Applied Technological Approaches in Heritage and Heritage Management: the Black Butte River Mapping Project*
2:30 PM - 2:35 PM	**Kansa, Eric, Neha Gupta**, *Visualizing and Navigating Chronology in Large Digital Collections*
2:35 PM - 2:40 PM	**Triplett, Edward, Emma Buckingham**, *Recontextualizing Decades-old Excavation Materials Through 3D Visualization*
2:40 PM - 2:45 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.*
2:45 PM - 2:50 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*
2:50 PM - 2:55 PM	**Pattee, Aaron**, *Analyzing the Medieval Landscape of the Pfalz—Castles in the Area of Kaiserslautern*
2:55 PM - 3:00 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 - 3:05 PM	**Juckette, Cole, Effie Athanassopoulos, Aaron Pattee, Kami Ahrens**, *Campus Archaeology and Digital Mapping: Urban space and Commerce in Lincoln Nebraska, 1870-1920s.*

3:05 PM - 3:10 PM	**Kulhanek, Karin, Andreas Pastoors**, *Tracking in 3D*
3:10 PM - 3:40 PM	*Discussion*
4:00 PM - 5:40 PM	**Kulhanek, Karin, Andreas Pastoors**, *Roundtable*

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

Networks/Modeling

Room: SCW 464

Organizers: Stefani Crabtree, Iza Romanowska

2:00 PM - 2:20 PM	**Hölzchen, Ericson, Christine Hertler**, *Modeling Resource-driven Out of Africa Hypotheses – Potential and Challenges*
2:20 PM - 2:40 PM	**Bergin, Sean**, *Migrant Farmers and Indigenous Foragers: Evaluating and Understanding Conceptual Models of the Neolithization of the West Mediterranean with a Spatially Explicit Agent-Based Model*
2:40 PM - 3:00 PM	**Davies, Benjamin, Simon Holdaway**, *Making Sense of the Surface: Using Spatial Simulation to Understand Stone Artifact Scatters*
3:00 PM - 3:20 PM	**Ullah, Isaac**, *Completing the Loop: Model-component Coupling and Bidirectional Feedback*.
3:40 PM - 4:00 PM	**Barceló, Juan**, *When All Agents Die. Analyzing the Possible Failures of Agent-based Models*.

Quality Assurance and Quality Control in Image-Based Modeling

3D Acquisition / Object Modeling

Room: SCW 466/468

Organizers: Adam Spring, George Bevan

2:00 PM - 2:20 PM	**Sherman, William**, *Introduction*
2:20 PM - 2:40 PM	**Bryan, Paul**, *Structure-from-Motion (SfM) – a Reliable Survey Tool for Archaeology or an Unreliable Black-box?*

2:40 PM - 3:00 PM	**Bevan, George, Jason Birch**, *Some Considerations on Semi-Global Matching for High-Accuracy Heritage Recording Applications*
3:00 PM - 3:20 PM	**Seguin, Maxime**, *Training with Free and Open-Source Photogrammetric Softwares : One of the Answers to Rectify the Situation?*
3:20 PM - 3:40 PM	**Bevan, George, Jones Kristen**, *An Analytical Stereoplotting Workflow for Archaeological Excavation: Reviving a 20th-century Photogrammetric Technique for the 21st.*
4:00 PM - 4:20 PM	**Meyer, Dominique, Danielle Mercure, Eric Lo, Jamie Hodgkins, Dominique Rissolo, Falko Kuester**, *Evaluating Photogrammetric Reconstructions of Faunal and Lithic Artifacts Compared to Traditional Microscopic Observation, Structured Light Imaging, Laser Scanning, Magnetic Resonance Imaging and Computerized Tomography Scanning*
4:20 PM - 4:40 PM	**Kleinkemper, Larry**, *The Key to Creating a GREAT Model from Laser Scanning and Photogrammetry*
4:40 PM - 5:00 PM	**Liu, Julia, Adam Spring**, *From Scan to Sculpture: Ensuring Quality Control in Digital Restoration.*
5:00 PM - 5:20 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 - 8:50 AM	**Johnson, Ian**, *Building Web-based Integration from Data Model through Tablet Data Collection to Analysis*
8:50 AM - 9:10 AM	**Jensen, Peter**, *Semantically Enhanced 3D: Introducing a Web-based Platform for Spatial Integration of Excavation Documentation*
9:10 AM - 9:30 AM	**Cuy, Sebastian, Jan Wieners, Daniel de Oliveira**, *iDAI.field 2.0 - A Modern & Open Framework for Field Recording*
9:30 AM - 9:50 AM	**Landeschi, Giacomo, Danilo Marco Campanaro, Nicolò Dell'Unto**, *A 3D Web-aided Resource for Pompeian Studies (3D WARPS)*
9:50 AM - 10:10 AM	**Zerbini, Andrea**, *Building a Heritage Management Platform for Endangered Archaeology in the Middle East and North Africa*
10:10 AM - 10:30 AM	**Lang, Matthias, Michael Derntl**, *Spacialist – A Virtual Research Environment for the Spatial Humanities*
10:50 AM - 11:10 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 - 11:30 AM	**Karenowska, Alexy**, *What do Web-based Platforms Mean for the Ambitions of Archaeology?*
11:30 AM - 11:50 AM	**Richards-Rissetto, Heather, Zachary Day, Shane Bolan**, *Not all Data are Born Digital: Workflows to facilitate Data Integration and Rapid 3D Visualization of Landscapes*
11:50 AM - 12:10 PM	**Wright, Holly**, *One Size does not Fit All: Reflections on Online Research Infrastructures*

12:10 PM - 12:30 PM	**Opitz, Rachel**, *Publishers and Archives as Fieldwork Collaborators*

3DVR Caveats and Accomplishments

VR

Room: SCE 217

Organizer: Willeke Wendrich

8:30 AM - 8:50 AM	**Wendrich, Willeke**, *3DVR Caveats and Accomplishments - Introduction*
8:50 AM - 9:10 AM	**Elgewely, Eiman**, *Evaluation and Enhancement of the Virtual Experience: The Case Study of the "Reviving Karanis in 3D" Project*
9:10 AM - 9:30 AM	**Mezzano, Michela, Noemi Mafrici**, *Saving the Nubian Temples: The Study of the History through Digital Tools*
9:30 AM - 9:50 AM	**Champion, Erik**, *PublicVR and its Relevance to 3DVR and Virtual Heritage*
9:50 AM - 10:10 AM	**Payne, Angie, Vance Green, Fred Limp**, *History Erased and History Recovered: (Re)Creating the Rohwer Japanese Interment Camp*
10:10 AM - 10:30 AM	**Wolter, Thomas**, *Photogrammetric Feature Documentation and Cave Modelling*
10:50 AM - 11:10 AM	**Vurpillot, Damien**, *Exploring Massive Point Clouds: How to Make the Most Out of Available Digital Material*
11:10 AM - 11:30 AM	**Kuester, Falko, Vid Petrovic**, *Giga-Point Rendering for 3D VR*
11:30 AM - 11:50 AM	**Follett, Forrest, Kyle Urquhart**, *A 3D Visualization of Ceramic Materials form Gabii, Italy*
11:50 AM - 12:30 PM	*Discussion*

Mobile GIS and Field Survey - Current Possibilities, Future Needs

GIS

Room: SCE Auditorium

Organizers: Nazarij Buławka, Julia Chyla

8:30 AM - 8:50 AM	**Knoop, Peter**, *Best Practices for Mobile GIS and Information Technology in the Field*
8:50 AM - 9:10 AM	**Hill, Austin**, *Low Cost, High Accuracy Drone Survey Methods*
9:10 AM - 9:30 AM	**Chyla, Julia, Miłosz Giersz, Wiesław Więckowski, Patrycja Prządka-Giersz, Roberto Pimentel-Nita**, *One Step further beyond Field Survey*
9:30 AM - 9:50 AM	**Miszk, Łukasz, Wojciech Ostrowski, Weronika Winiarska**, *Urban sprawl vs. Archaeological Site. A View from Paphos.*
9:50 AM - 10:10 AM	**Pethen, Hannah**, *Accessing the Inaccessible: Detailed 'Off-Site' Archaeological Survey using Satellite Imagery and GIS at the Hatnub Travertine Quarries, Egypt*
10:10 AM - 10:30 AM	**Buławka, Nazarij**, *Ancient Landscapes and 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

8:30 AM - 8:50 AM	**Smith, Karl**, *Locations in Experience: Visibility, Seafaring, and the Placement of Pembrokeshire's Iron Age Coastal Promontory Forts*
8:50 AM - 9:10 AM	**Negre, Joan**, *A Geographically based Ripley's Function to Assess Settlement Patterning*
9:10 AM - 9:30 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 - 9:50 AM	**Micle, Dorel**, *Landscape and Economics: A GIS Location Analysis of Middle Age water mills from Banat Region (Romania)*
9:50 AM - 10:10 AM	**Tsonev, Tsoni**, *Complexity of Mesolithic Settlements in Northeastern Bulgaria*
10:10 AM - 10:30 AM	*Discussion*
10:50 AM - 11:10 AM	**Higginbottom, Gail, Roger Clay**, *Human Scale and its Impact on Location Modelling*

11:10 AM - 11:30 AM	**Whitley, Thomas**, *Blurring the Lines Between Prediction and Interpretation: Some Thoughts on the Contributions of Energetics, Mobility, and 3D Models to Settlement Theory.*
11:30 AM - 11:50 AM	**Shaffer, Derek, Timothy Murtha, Charles Golden, Bruce Cook, Elijah Hermitt**, *Sites, Landscapes, and LiDAR in the Maya Lowlands: Leveraging high resolution regional LiDAR for improved predictive models.*
11:50 AM - 12:10 PM	**Hobbs, Elizabeth, Michael Bergervoet**, *Designing Locational Models to Test Settlement Theory*
12:10 PM - 12:30 PM	*Discussion*

Everything wrong with…

Critical Reflections

Room: SCW 460/462

Organizers: Doug Rocks-Macqueen, Stefani Crabtree, Philip Riris

8:30 AM - 8:40 AM	**Dennis, L. Meghan**, *Ethics? Ethics? Anyone?*
8:40 AM - 8:50 AM	**Crabtree, Stefani**, *Communicating Archaeological Research to the Press and the Public*
8:50 AM - 9:00 AM	**Rocks-Macqueen, Doug**, *F*ck Public Archaeology*
9:00 AM - 9:10 AM	**Huggett, Jeremy**, *Everything Wrong With … Digital Archaeology*
9:10 AM - 9:20 AM	**Gruber, Ethan**, *Challenges in Analysing Sensitive or Uncertain Data in a Semantic Web Environment*
9:20 AM - 9:30 AM	**Graham, Shawn**, *Everything Wrong with Bots: On Algorithmic Madness*
9:30 AM - 9:40 AM	**Riris, Phil**, *"Twitter is Actually Stupid" - @fart*
9:40 AM - 9:50 AM	**Layt, John**, *Open Source: You're Doing it all Wrong*
9:50 AM - 10:30 AM	*Discussion*

10:50 AM - 11:00 AM	**Newhard, James**, *Turning the Ship without Rocking the Boat: Establishing Archaeological GIS within an Undergraduate Experience*
11:00 AM - 11:10 AM	**Brughmans, Tom**, *Everything Wrong with Exploratory Network Analysis of Archaeological Similarity Networks*
11:10 AM - 11:20 AM	**Walthew, Jessica**, *The Aura as Metadata, The Aura of Metadata*
11:20 AM - 11:30 AM	**Opitz, Rachel**, *How We Measure Shape*
11:30 AM - 11:40 AM	**Johnson, Phyllis**, *How Can Something so Small Cost so Much? Cost- and Time-Efficiency in Microartifact Analysis*
11:40 AM - 11:50 AM	**Eriksen, Kristin**, *3D-models in Archaeology*
11:50 AM - 12:00 PM	**Romanowska, Iza**, *Everything Wrong with Archaeological Models*
12:00 PM - 12:10 PM	**Cooper, Catriona**, *Everything Wrong with Acoustical Modelling*
12:10 PM - 12:30 PM	*Discussion*

Archaeological Networks: Uncertainty, Missing Data, and Statistical Inference

Networks/Modeling

Room: SCW 464

Organizers: Tom Brughmans, Matt Peeples

8:30 AM - 8:50 AM	**Blair, Elliot**, *Social Networks of Mission Santa Catalina de Guale: Comparing and Contrasting Unimodal and Bimodal Approaches*
8:50 AM - 9:10 AM	**Upton, Andrew**, *Frontier Networks: Cultural Transmission and Multiple Relations at the Intersection of Mississippian and Oneota Worlds*
9:10 AM - 9:30 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*
9:30 AM - 9:50 AM	**Golitko, Mark**, *Historical Contingency in Network Data: Examples from Museum Collections Research*

9:50 AM - 10:10 AM	**van Havre, Grégoire**, *Networks as a Theoretical Framework for Rock Art Studies in Northeast Brazil*
10:10 AM - 10:30 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*
10:50 AM - 11:10 AM	**Crabtree, Stefani**, *Analyzing Trophic Networks among the Ancestral Pueblo*
11:10 AM - 11:30 AM	**Groenhuijzen, Mark, Philip Verhagen**, *Continuity and Discontinuity in Transport Networks of the Dutch Limes Zone*
11:30 AM - 11:50 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 - 12:10 PM	**Brandes, Ulrik, Tom Brughmans**, *New Methods for Visibility Networks in Landscape Archaeology*
12:10 PM - 12:30 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

8:30 AM - 8:50 AM	**Kampel, Martin, Juraj Sarkisjan**, *Feasibility Study of Consumer Electronic Scanning Devices for Pottery Documentation*
8:50 AM - 9:10 AM	**Filippucci, Marco, Fabio Bianconi, Sofia Catalucci, Gianluca Rossi**, *Drawing, Survey, Measure to Analyzing the Reliability of Photomodelling for Cultural Heritage*
9:10 AM - 9:30 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 - 9:50 AM	**Krohn, Anna, Miriam Clinton, Ian Roy**, *One Size Does Not Fit All: A Comparison of 3D Data Capture*
9:50 AM - 10:10 AM	**Noble, Tommy, Neffra Matthews**, *Good Photogrammetry, Good Data, Good Science*
10:10 AM - 10:30 AM	*Discussion*

10:50 AM - 11:10 AM	**Scafuri, Michael**, *The Integration of Multiple 3D Documentation Methodologies in the Modeling and Analysis of an American Civil War Submarine*.
11:10 AM - 11:30 AM	**Mudge, Mark, Carla Schroer**, *Challenges and Insights from the Photogrammetric Capture of a Large-scale Diego Rivera Fresco*
11:30 AM - 11:50 AM	**Johnson, Tyler**, *3D User Interfaces at the Nexus of Technical Processing and Creative Design in Digital Archaeology*
11:50 AM - 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*
12:10 PM - 12:30 PM	**Rieke-Zapp, Dirk**, *Quantitative Analysis Based on 3D data - Examples*

THURSDAY AFTERNOON

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

Collaborative Data Management

Room: SCE 216

Organizers: Vanessa Juloux, Alessandro di Ludovico

2:00 PM - 2:20 PM	**Di Ludovico, Alessandro**, *Data Description and Integrated Study of Ancient Near Eastern Works of Art: The Potential of Cylinder Seals*
2:20 PM - 2:40 PM	**Ramazzotti, Marco**, *Landscape Archaeology and Artificial Intelligence: The Neural Hypersurface of the Mesopotamian Urban Revolution*
2:40 PM - 3:00 PM	**Prosser, Miller**, *Digital Philology in the Ras Shamra Tablet Inventory Project: Text Curation through Computational Intelligence*
3:00 PM - 3:20 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*
3:20 PM - 3:40 PM	**Pagé-Perron, Émilie, Terhi Nurmikko-Fuller, Vanessa Juloux**, *Enhancing Collaboration between Digital Assyriology Projects Through Open Access Practices*

Exploring the Symbiotic Relationships of Archaeology and Spatial Humanities

Broader View - Digital Archaeology and the Humanities

Room: SCE 216

Organizers: Armin Volkmann, Heather Richards-Rissetto

4:00 PM - 4:20 PM	**Athanassopoulos, Effie, Kim Shelton**, *Archaeological Practice and 3D Modeling: A Medieval Ceramic Assemblage from Nemea, Greece*
4:20 PM - 4:40 PM	**Isaksen, Leif, Rainer Simon, Elton Barker, Valeria Vitale, Rebecca Kahn**, *Supporting Community Annotation with Recogito 2*
4:40 PM - 5:00 PM	**Rabinowitz, Adam, Ryan Shaw, Patrick Golden, Elijah Fleming, Lorraine Haricombe**, *In Search of Common Ground: Time, Tradition, and Temporal Reconciliation in PeriodO 2*
5:00 PM - 5:20 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 - 5:40 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*
5:40 PM - 6:00 PM	*Discussion*

3D Technologies Applied to Music and Sound

VR

Room: SCE 217

Organizers: Bernard Frischer, Jared Katz

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

4:00 PM - 4:20 PM	**Koller, Jared**, *Multi-Sensory Landscape Analysis of Spanish Mission Building Practices in the Philippines*
4:20 PM - 4:40 PM	**Cooper, Catriona**, *Listening to the Commons: Acoustically Modelling the Pre-1834 House of Commons, Westminster*
4:40 PM - 5:40 PM	*Discussion*

Contributions to Settlement Theory? Archaeological Location Analysis and Modelling

GIS

Room: SCE House

Organizer: Kenneth Kvamme

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

The Ups and Downs of Archaeological Simulation

Networks/Modeling

Room: SCE House

Organizers: Iza Romanowska, Juan Barceló

4:00 PM - 4:20 PM	**Rocks-Macqueen, Doug**, *The Long Road Ahead for Simulations in Archaeology*
4:20 PM - 4:40 PM	**Linde, Lennart**, *Think Different! - Why "Model Thinking" Shaped the Archaeological Thought Beyond the Hype on ABM*
4:40 PM - 5:40 PM	*Discussion*

Structural Analysis for Cultural Heritage

3D Acquisition / Object Modeling

Room: SCW 460/462

Organizers: Falko Kuester, Michael Hess, Dominique Rissolo

2:00 PM - 2:20 PM	**Guidi, Gabriele, Sara Gonizzi Barsanti**, *A Novel Pipeline for the Structural Analysis of 3D Digitized Cultural Heritage*
2:20 PM - 2:40 PM	**Napolitano, Rebecca, Branko Glisic**, *Digital Workflow for Structural Analysis of Discontinuous Media*
2:40 PM - 3:00 PM	**Ippolito, Alfonso, Carlo Inglese, Martina Attenni, Valeria Caniglia**, *Quantity vs Quality: Advantages and Disadvantages of Imaged Based Modelling*
3:00 PM - 3:20 PM	**Hess, Michael**, *Non-destructive Techniques for the Structural Health Assessment of Historic Buildings*
3:20 PM - 3:40 PM	**Wittich, Christine, Tara Hutchinson**, *Seismic Response of Geologic and Heritage Structures: Geometry Acquisition, Numerical Modeling, and Probabilistic Interpretation*
4:00 PM - 4:20 PM	**Wood, Richard, M. Ebrahim Mohammadi**, *Lidar Damage Evaluation of Historic Temple after the 2015 Gorkha Earthquake*
4:20 PM - 4:40 PM	**Schubert, Lutz, Keith Jeffery**, *Interpreting Shell Middens through Physics Simulation*
4:40 PM - 5:00 PM	**Miles, James**, *The Potential of Structural Analysis in Archaeological Simulation and Interpretation: A Case Study of Medieval Winchester Cathedral Close*
5:00 PM - 5:20 PM	**Gil, Ana**, *A Methodology for Architectural Heritage's Digital Reconstructions. Lisbon Religious Houses as Case Study*
5:20 PM - 5:40 PM	**Meyer, Dominique, Gianmarco Guerra, 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 Model*
5:40 PM - 6:00 PM	**Rissolo, Dominique, Michael Hess, Jose Huchim Herrera, Eric Lo, Vid Petrovic, Dominique Meyer, Falko Kuester, Fabio Amador**, *Preliminary Structural Assessment of a Unique Maya Building Platform at Oxkintok, Yucatan*

Archaeological Networks: Uncertainty, Missing Data, and Statistical Inference

Networks/Modeling

Room: SCW 464

Organizers: Tom Brughmans, Matt Peeples

2:00 PM - 2:20 PM	**Rivals, Cécile**, *The Modeling of Urban Spatial Dynamics in Long Time Spans*
2:20 PM - 2:40 PM	**Habiba, Habiba, Viviana Amati, Jessica Munson, Jonathan Scholnick, Yuriy Polyukhovych, Matthew Looper, Martha Macri**, *Inferring Influence Networks of Grapheme Innovation in Classic Maya Hieroglyphic Writing*
2:40 PM - 3:00 PM	**Gjesfjeld, Erik**, *Centrality Measurements and their Application to Archaeological Data*
3:00 PM - 3:20 PM	**Peeples, Matthew, John Roberts**, *Bootstrap Methods for Assessing Variability in Archaeological Networks*
3:20 PM - 3:40 PM	**Cardinal, James**, *Unscrambling the Egg: Quantitative, Assemblage-based Component Consociation Methods for Densely Mixed or Disturbed Contexts*
4:00 PM - 4:20 PM	**Collins-Elliott, Stephen**, *Accounting for Sample Size: Measuring Cultural Distinction through Monte Carlo Approximations of Hellinger Distances*
4:20 PM - 4:40 PM	**Gauthier, Nicolas**, *Assessing the Impact of Parametric Uncertainty in a Simple Model of a Social-ecological Network*
4:40 PM - 5:00 PM	**Gravel-Miguel, Claudine**, *Using an ABM to Evaluate the Impact of Missing Links on our Interpretation of Social Networks*
5:00 PM - 5:40 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

2:00 PM - 2:20 PM	**Pakhunov, Alexander, Ekaterina Devlet, Alexander Popov**, *How Can We Trace Translocated Boulders with Petroglyphs at the Riverbank?*

2:20 PM - 2:40 PM	**McKee, Arlo**, *A Glimpse at Site Formation Processes from 3D Laser Scanning Ceramic Sherds in East Texas*
2:40 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*
3:00 PM - 3:20 PM	**Murray, Michael**, *Practical Applications of Underwater Laser Scanning in Maritime Archaeology Compared to Micro-bathymetry Sonar and Photogrammetry*
3:20 PM - 3:40 PM	**Jiménez-Badillo, Diego, Salvador Ruíz-Correa, Mario Canul-Ku, Rogelio Hasimoto-Beltrán**, *Application of a 3D Morphing Technique to Analyze the Style of Archaeological Models*
3:40 PM - 4:20 PM	**Hanes, Laurence, Tim Collins, Sandra Woolley**, *Classifying the Surfaces of Virtual Cuneiform Tablet Fragments*
4:20 PM - 4:40 PM	**Mara, Hubert**, *Revealing Degraded Script in High Resolution 3D Measurement Data with GigaMesh*
4:40 PM - 5:00 PM	**Rossi, Maria Laura, Carlo Inglese, Antonio Pizzo, Leonardo Paris**, *Geometry as Matrix of Construction of Roman Stone Bridges. The Augustus Bridge in Narni.*
5:00 PM - 5:40 PM	*Discussion*