Plan Overview

A Data Management Plan created using DMPonline

Title: Reconstruction of Kings Weston Roman Villa, Bristol, UK.

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Template: University of Bristol Postgraduate Template

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Project abstract:

The creation of three-dimensional digital reconstructions of the Kings Weston Roman Villa, in Bristol, England.

This forms part of the PhD Research produced by Alexander T. R. Birkett https://orcid.org/0000-0002-1150-5464] entitled "Virtual Ruins, Real Insights: Establishing A Framework for three-dimensional Modelling in Archaeology".

The Roman Villa of Kings Weston [Monument Num. 198239] is centred at ST5339 7755 in the housing estate of Lawrence Weston, Bristol. This site was excavated in 1947 by George Boon during post-war housing developments.

ID: 137923

Start date: 19-06-2016

End date: 20-11-2023

Last modified: 13-11-2023

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Reconstruction of Kings Weston Roman Villa, Bristol, UK.

Project Summary

Provide a brief description of the project and the research being carried out. State if research is part of a larger project, department(s) and funders involved and where data fits in.

The creation of three-dimensional digital reconstructions of the sites of Kings Weston Roman Villa, in Bristol, England.

This forms part of the PhD Research produced by Alexander T. R. Birkett https://orcid.org/0000-0002-1150-5464] entitled "Virtual Ruins, Real Insights: Establishing A Framework for three-dimensional Modelling in Archaeology".

This thesis aims to critically re-evaluate the state of Three-dimensional modelling within the field of archaeology by shifting the focus from physical fidelity to the rigour of interpretation. This is achieved with a focus on its pivotal role in documenting and reconstructing built structures, particularly domestic buildings, during and after excavation.

This is achieved through the application of three-dimensional recording techniques such as photogrammetry finite element analysis, lighting analysis, and methods for visually categorising levels of certainty. These are situated within a broader framework of methods to ensure ease of integration into the established processes of archaeological excavation.

The reconstruction of the Roman Villa of Kings Weston [Monument Num. 198239] is one of three case studies focusing on digitally reconstructing the archaeological remains. The Roman Villa of Kings Weston is centred at ST5339 7755 in the housing estate of Lawrence Weston, Bristol. This site was excavated in 1947 by George Boon during post-war housing developments.

Data Types

What types of data will be involved?

The data collected and produced will be the following:

- Geospatial survey data:
 - Total Station and/or GNSS GPS data
 - UAV data.
 - Created geospatial data from plans.
- Vector Drawings:
 - Plans and sections of buildings and trenches where applicable.
 - Harris Matrix for excavations where applicable.
 - Extended Harris Matrix for reconstructions.
- Raster Images:

 - Photographs from UAV surveys.Photographs from terrestrial surveys.
 - Photographs of artefacts.
- · Documents:
 - Reports from lighting analysis.
 - Reports form photogrammetry surveys.Reports from structural analysis.

 - Reports from terrestrial and aerial surveys.
 Reports of reconstruction paradata
- Tabular data:
 - · Database of site data.
 - Results from structural analysis.Results from lighting analysis.

 - Calibration data for Photogrammetry.
 - · Metadata for files.
 - File tree data for project folder.
- · Three-Dimensional Reconstructions and Records
 - Three-dimensional model files
 - · Texture files for three-dimensional models.

What file formats will be used?

Data will be stored, recorded, and organised according to the best practices outlined by the Archaeology Data Service (ADS) for the storage and archiving of digital data, including raster and vector data, geophysical data, geospatial data, three-dimensional data, and alpha-numeric documentary data

Data Type	Archival File Types	
Alpha-numerical data	Plain Text (.txt) Delineated Text (.csv)	
Documentary data that may consist of just text, or text and pictures.	Plain Text (.txt) Portable Document Format (.pdf/A)	
Raster imagery data	Tag Image File Format (.tiff) Portable Network Graphics(.png) Adobe Digital Negative(.dng)	
Vector imagery data	Scalable Vector Graphics (.svg) Portable Document Format (.pdf/A) Drawing Exchange Format (.dxf) Graph Modelling Language (.xgml)	
Geodatabase	Shapefiles (.shp) [this is accompanied by up to eleven reference files that are equally archival] Delineated Text (.csv) GeoTIFF (.tiff)	
Three-Dimensional models (Records or Reconstructions)	Wavefront (.obj) Stereolithography (.stl)	
Code	R Code (.R)	
Compressed Files	.zip	
Metadata & Paradata	Delineated Text (.csv) Plain Text (.txt) Portable Document Format (.pdf/A)	

What will be the size of the files?

Data Type	Estimated File Size (Uncompressed)
Alpha-numerical data	< 01 GB
Documentary data that may consist of just text, or text and pictures.	< 01 GB
Raster imagery data	< 40 GB
Vector imagery data	< 05 GB
Geodatabase	< 05 GB
Three-Dimensional models (Records or Reconstructions)	< 40 GB
Metadata & Paradata	< 01 GB
Total (Uncompressed)	< 90 GB
Total (Compressed)	~ 54 GB

Data Storage and Preservation

How will the data be stored and kept safe?

Data prior to processing will be stored on University of Bristol SharePoint servers with two off-site backup of all data.

Once archived all data will be stored in The University of Bristol Research Data Storage Facility (RDSF), which provides secure, long-term storage for research data. This major investment provides nightly backup of all data, with further resilience provided by three geographically distinct storage locations. A tape library is used for backup purposes and also for long-term, offline data storage. Only authorised users can access data stored within the RDSF. The RDSF is managed by Bristol's Advanced Computing Research Centre (ACRC) which has a dedicated steering group and a rigorous data storage policy (https://www.acrc.bris.ac.uk/acrc/RDSF_policy.pdf). The RDSF upholds and reinforces Bristol's wider Information Security Policy(www.bris.ac.uk/infosec/policies/docs/isp-01.pdf).

Data Organisation

How will data be organised?

Primary Folder - Level One	Level Two	Level Three	Level Four	Level Five	Level Six	Contents description
3D						Three- Dimesnional Models
	PROJECT FOLDER					The top-level folder containing all the files relating to a threedimensional reconstruction model.
		EXPORTED MODELS				Three- dimensional model assets produced for the reconstruction.
			LANDSCAPE			The reconstructed landscape surrounding the model which had previously not been able to be reconstructed.
				PHASE01		The Phase reconstructed.
			COMPONENTS			The folder containing all non- reconstruction related meshes.
				PHASE01_STRUCTURE		Structural meshes named with their BIM name and Extended Matrix name
					STRUCTURE_STRUCTURAL AREA REINFORCEMENT_AREAREIN	
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				ARCHITECTURE_FLOORS_FLOORS	
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				ARCHITECTURE_GUTTERS_GUTTER	
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				ARCHITECTURE_ROOMS_ROOMS	
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				OTHER_PIPES_PIPES	
				OTHER_PIPES_PIPECURVES	
				OTHER_PIPING SYSTEMS_PIPINGSYSTEM	Image files used
	MATERIAL LIBRARIES				for materials and textures of meshes within 3Ds Max.
	RENDER OUTPUT				The output location for all rendered images.
	RENDER PRESETS				A folder to store preset settings for render engines within 3Ds Max.
	SCENE ASSETS				Additional assets used for refrence or help.
		IMAGES			Image files used specifically for rendering or to aid in the alignment of cameras for rendering.
			ANIMATIONS		Animations stored as single frames produced from the reconstruction model.
			IMAGES		Images of rendered scenes of the reconstruction model.
STRUCTURAL ANALYSIS STUDY FOLDER					The top-level folder containing all the files relating to a three-dimensional model.
	ARCHIVES				Old assemblies and part files that are no longer used or referenced in any studies.

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polygon data						polygon data
relating to or						relating to or
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						will typically not
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such as masonr walls or						such as masonry
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building/room points as these						points as these are also produced

					Point, line, and polygon data relating to the
GEOGRAPHY					local geography including place names, building
					outlines (unless surveyed), rivers and roads.
					Point, line, and polygon data relating to
GEOLOGY					underlying geology, geological
					features. This does also include soil data.
					Point, line, and polygon data representing
CHBAEA BROCECCED					masonry features, building surveys, drawing locations and any
SURVET_FRUCESSED					measured or measurable data that is created
					that does not fit in the above categories.
					Point, line, and polygon data representing the
					working datasets directly output from survey
SURVEY_RAW					instruments. The processed data can be
					considered the 'master' copy used for analysis.
GRIDS					Point and polygon data relating to the site grid.
DOCUMENTS					Reports
					Formalised longform textual content or
FIELDWORK RECORDS					primary textural records relating to archaeological
					data either of digital origin or digitised from
					physical records. Technical Drawings
					Raster or vector data files conveying visual
					information of archaeological data as technical
					or illustrative representations.
					Raster data records or
					archaeological data. Raster data
					records or archaeological data.
					Raster data records or
	GEOLOGY SURVEY_PROCESSED SURVEY_RAW GRIDS DOCUMENTS				

Data Documentation and Description

What documentation will you keep?

Data will be stored, recorded, and organised according to the best practices outlined by the Archaeology Data Service (ADS) for the storage and archiving of digital data, including raster and vector data, geophysical data, geospatial data, three-dimensional data, and alpha-numeric documentary data.

Project Level Metadata

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Relations	PROJECT_RELATIONS	If the data collection was derived in whole or in part from published or unpublished sources, whether printed or machinereadable, this element should include references to the original material, details of where the sources are held and how they are identified there (e.g., by accession number). If the collection is derived from other sources include an indication of whether the data represents a complete or partial transcription/copy and the methodology used for its digitisation. Also include full references to any publications about or based upon the data collection.
Language	PROJECT_LANGUAGE	Indication of which language(s) the dataset is in (e.g., English, French, Spanish).
Resource Type	PROJECT_TYPE	Whether the dataset is best described as primary data, processed data, an interpretation of data, or a final report.
Format	PROJECT_FORMAT	The formats the data within the project is saved in (e.g., WordPerfect 5.1, HTML, AutoCAD).

General File Level Metadata.

Human Name	Metadata Name	General Description	
File Name	FILE_NAME	The name of the file e.g., report.doc	
File Format	FILE_FORMAT	The file format e.g., PDF/A or Open Office Document	
File Location	FILE_LOCATION	The file path i.e. directory and filename e.g., /adsdata/cottam_ba/jpg/fwking_plan.jpg	
Software Name	FILE_SOFTWARE	The software used to create the file e.g., Microsoft Word 2007	
Hardware used	FILE_HARDWARE	The hardware used to create the file, this is more significant when files are created directly by survey equipment such as laser scanners or GPS devices.	
Operating System Used	FILE_OPSYS	The operating system under which the file was made e.g., Windows XP or Mac OS X 10.5.	
Date of Creation	FILE_CREATED	When the file was made.	
Date of Last Update	FILE_UPDATED	When the file was updated.	
Linked Files	FILE_LINKED	This element should be used to highlig relationships between files.	
Identifiers	FILE_IDENTIFIER	from another.	
Creator	FILE_CREATORS	The file path i.e. directory and filename e.g., /adsdata/cottam_ba/jpg/fwking_plan.jpg.	
Copyright	FILE_COPYRIGHT	Details of copyright or other rights and holder details.	

Raster & Vector File Metadata

	ector File Metada	ıta.
Human Name	Metadata Name	General Description
Title	FILE_TITLE	The title of the image or a suitable caption.
Description	FILE_DESCRIPTION	Description of the image.
Coverage	FILE_COVERAGE	Site location and description. The address, or coordinates for the subject and a description of the subject. Coverage should also include any relevant period terms.
Projection System	FILE_PCS	Projected Coordinate System used.
Coordinate System	FILE_GCS	Geographic Coordinate System used.
Keywords	FILE_KEYWORDS	Keywords e.g., period, site or feature terms. Use suitable thesauri where they exist.
File Format and Version	FILE_VERSION	e.g., TIFF 6.0.
File Size	FILE_SIZE	Size of the file in bytes.
Resolution	FILE_RESOLUTION	The resolution of the image measured in pixels per inch (ppi).
Dimensions	FILE_DIMENSIONS	Dimensions of the image in pixels e.g., 400 x 700px.
Colour Space	FILE_COLOUR	The colour space used in the image e.g., RGB or grayscale.
Bit Depth	FILE_BITDEPTH	e.g., 24bit or 8bit.

Three-Dimensional Record File Level Metadata.

Human		Conoral
Human Name	Metadata Name	General Description
Subject	FILE_SUBJECT	Keywords for the subject content of the dataset (qualified using e.g., the English Heritage NMR Monument Type Thesaurus or the MDA Object Type Thesaurus.
Intended accuracy	FILE_Accuracy	The originally intended accuracy or scale that the survey was to achieve.
Coverage	FILE_COVERAGE	Site location and description. The address, or coordinates for the subject and a description of the subject. Coverage should also include any relevant period terms.
Projection System	FILE_PCS	Projected Coordinate System used.
Coordinate System	FILE_GCS	Geographic Coordinate System used.
Keywords	FILE_Keywords	Keywords e.g. period, site or feature terms. Use suitable thesauri where they exist.
Dates	FILE_DATES	Dates indicating when the dataset was created, when the archaeological project was carried out, processing dates, or computerisation dates as appropriate.
Identifiers	FILE_PROJECTID	Project or reference numbers or site codes used to identify the dataset.
Resolution	FILE_RESOLUTION	The resolution of the image measured in pixels per inch (ppi).
Dimensions	FILE_DIMENSIONS	Dimensions of the image in pixels e.g., 400 x 700px.
Colour Space	FILE_COLOUR	The colour space used in the image e.g., RGB or grayscale.
		e.g., 24bit or

Three-Dimensional Record Control Point Metadata.

Metadata	General			
Name	Description			
CONTL_X, CONTL_Y, CONTL_Z,	List the three- dimensional coordinates for each control point.			
CONTL_CX, CONTL_CY, CONTL_CZ	Provide full correlation if available (from survey adjustment or GPS baseline solution), otherwise provide estimated standard deviation or variance of each coordinate.			
CONTL_Location	location.			
FILE_DATES	Dates indicating when the dataset was created, when the archaeological project was carried out, processing dates, or computerisation dates as appropriate.			
FILE_PROJECTID	Project or reference numbers or site codes used to identify the dataset.			
FILE_COVERAGE	Coverage should also include any relevant period terms.			
FILE_PCS	Projected Coordinate System used.			
FILE_GCS	Geographic Coordinate System used.			
	Name CONTL_X, CONTL_Y, CONTL_Y, CONTL_CX, CONTL_CY, CONTL_CY, CONTL_CY CONTL_Location FILE_DATES FILE_PROJECTID FILE_PROJECTID			

Geographical Information System File Metadata.

Human Name	Metadata Name	General Description
Scale	FILE_SCALE	Scale/resolution of data capture,
Method	FILE_Method	e.g., 1:1250 Method of original data capture, e.g., Total Station Survey, etc.
Dates	FILE_DATES	Dates indicating when the dataset was created, when the archaeological project was carried out, processing dates, or computerisation dates as appropriate.
Identifiers	FILE_PROJECTID	Project or reference numbers or site codes used to identify the dataset.
Coverage	FILE_COVERAGE	Site location and description. The address, or coordinates for the subject and a description of the subject. Coverage should also include any relevant period terms.
Projection System	FILE_PCS	Projected Coordinate System used.
Coordinate System	FILE_GCS	Geographic Coordinate System used.
Identifiers	FILE_PROJECTID	Project or reference numbers or site codes used to identify the dataset.
Resolution	FILE_RESOLUTION	The resolution of the image measured in pixels per inch (ppi).
Dimensions	FILE_DIMENSIONS	Dimensions of the image in pixels e.g., 400 x 700px.
Colour Space	FILE_COLOUR	The colour space used in the image e.g., RGB or grayscale.
Bit Depth	FILE_BITDEPTH	e.g., 24bit or 8bit.

Three-Dimensional Model File Metadata.

Human	Metadata	General			
Name	Name	Description			
Number of Vertices	FILE_VERT	The number of vertices (points) in the model			
Number of Polygons	FILE_POLY	The number of triangles or polygons in the model			
Geometry Type	FILE_GEOMTYPE	The type of geometry used within the model (wire frame, parametric, etc. if applicable).			
Scale	FILE_UNITSCALE	What scale is represented by 1 unit.			

Coverage	FILE_COVERAGE	Site location and description. The address, or coordinates for the subject and a description of the subject. Coverage should also include any relevant period terms.
Projection System	FILE_PCS	Projected Coordinate System used.
Coordinate System	FILE_GCS	Geographic Coordinate System used.
Basic, Technical, or Extended	file_type	Is the model the master model produced just after raw data processing, or is it a derived model produced from the master (e.g. after hole filling, simplification, smoothing, etc.)?
Level of Detail	FILE_LOD	How detailed is the model, what is the resolution of the scan.
Layers	FILE_LAYERS	Does the model use layers? How many?
Colour and Texture	FILE_TEXTURES	Does the model contain colour or texture information? How is this stored? If raster texture files are used then these have to be archived separately.
Material	FILE_MATERIAL	Information about the material properties of the model and whether they match the physical properties of the actual object.
Light Source(s)	FILE_LIGHT	Number and accuracy of light sources used in the model.
Shader	FILE_SHADER	Have special or extended shaders been used?
Animation	FILE_ANIMATION	Whether animation is used in the model along with description of type (keyframe, motion capture).

Data Sharing

What are your plans for publishing data?

Data will be published through the University of Bristol Research Data Repository (data.bris). The data.bris Repository offers a means for Bristol's researchers to openly share non-confidential research data, without the need for external data users to undergo any form of authentication. Each deposit is accompanied by appropriate metadata and is assigned a unique Digital Object Identifier (DOI) via the DataCite scheme. All data published by the Repository is available under a permissive re-use license.

Are there any ethical, commercial, legal or IPR issues which might apply when publishing your data?

There are no ethical, commercial, legal or IPR issues with publishing this data.

Planned Research Outputs

Model representation - "Kings Weston Roman Villa (Basic Model)"

This dataset includes preliminary 3D models of the Kings Weston Roman Villa, focusing on various potential reconstructions. These basic, low-poly models are instrumental in visualizing different architectural possibilities, serving as a foundation for more detailed reconstructions. They are primarily untextured or minimally textured, facilitating initial explorations of the villa's structure.

Model representation - "Kings Weston Roman Villa (Technical Model)"

Advancing from the basic models, this dataset features detailed technical 3D reconstructions of the Kings Weston Roman Villa. These models are higher in polygon count and include more intricate details while keeping texturing limited. Essential for in-depth archaeological analysis, they provide a more accurate depiction of the villa based on archaeological findings and hypotheses.

Dataset - "Finite Element Analysis Models of Kings Weston Roman Villa"

This series comprises detailed 3D models for structural analysis of the Kings Weston Roman Villa using Finite Element Analysis (FEA). These models incorporate accurate geometries and material properties, allowing simulations under various stress conditions to understand the villa's structural integrity and historical construction techniques.

Dataset - "Survey Data Collection of Kings Weston Roman Villa"

This collection encompasses diverse survey data of the Kings Weston Roman Villa, including GIS shapefiles, CSV files, CAD drawings, and PDFs of these drawings. It provides a multifaceted view of the villa, crucial for archaeological research, site management, and preservation planning.

Dataset - "Lighting Analysis Results of Kings Weston Roman Villa Models"

This dataset contains rendered images from Lighting Analysis tests conducted on the Basic and Technical Models of the Kings Weston Roman Villa at key times like equinoxes and solstices. The images show varying illumination levels in Lux, providing insights into the interplay of light and structure across different seasons and times of day.

Text - "PhD Thesis: "Virtual Ruins, Real Insights: Establishing A Framework for three-dimensional Modelling in Archaeology""

Alexander T. R. Birkett's PhD thesis at the University of Bristol's Department of Archaeology & Anthropology critically re-evaluates 3D modelling in archaeology, with a focus on methodological rigor over physical fidelity. The thesis integrates techniques like photogrammetry and Finite Element Analysis into a comprehensive framework, applied to case studies including the Kings Weston Roman Villa.

Text - "Terrestrial and Aerial Photogrammetry Survey of Kings Weston Roman Villa"

This report presents findings from a terrestrial and aerial photogrammetry survey of the Kings Weston Roman Villa, prepared for the local Historic Environment Record (HER). It offers an indepth analysis using advanced photogrammetry techniques, contributing valuable data for archaeological research and heritage management.

Dataset - "Photogrammetry Survey Dataset of Kings Weston Roman Villa"

The photogrammetry survey dataset includes 3D models, point clouds, and photographs, capturing detailed features of the Kings Weston Roman Villa. This accurate spatial and geometric data is essential for reconstructive analysis and preservation efforts, providing comprehensive insights into the villa's current condition and historical layout.

Planned research output details

Title	Туре	Anticipated release date	Initial access level	Intended repository(ies)	Anticipated file size	License	Metadata standard(s)	May contain sensitive data?	May contain PII?
Kings Weston Roman Villa (Basic Model)	Model representation	2024-04-30	Open	data.bris Research Data Repository	4 GB	Creative Commons Zero v1.0 Universal	None specified	No	No
Kings Weston Roman Villa (Technical Model)	Model representation	2024-04-30	Open	data.bris Research Data Repository	4 GB	Creative Commons Zero v1.0 Universal	None specified	No	No
Finite Element Analysis Models of Kings Weston Rom	Dataset	2024-04-30	Open	None specified	2 GB	Creative Commons Zero v1.0 Universal	None specified	No	No
Survey Data Collection of Kings Weston Roman Villa	Dataset	2024-04-30	Open	data.bris Research Data Repository	2 GB	Creative Commons Zero v1.0 Universal	None specified	No	No
Lighting Analysis Results of Kings Weston Roman Vi	Dataset	2024-04-30	Open	data.bris Research Data Repository	1 GB	Creative Commons Zero v1.0 Universal	None specified	No	No
PhD Thesis: "Virtual Ruins, Real Insights: Establi	Text	2024-04-24	Open	data.bris Research Data Repository	1 GB	Creative Commons Zero v1.0 Universal	None specified	No	No
Terrestrial and Aerial Photogrammetry Survey of Ki	Text	2024-04-30	Open	data.bris Research Data Repository	500 MB	Creative Commons Zero v1.0 Universal	None specified	No	No
Photogrammetry Survey Dataset of Kings Weston Roma	Dataset	2024-04-30	Open	data.bris Research Data Repository	3 GB	Creative Commons Zero v1.0 Universal	None specified	No	No