

Constantinos Papadopoulos



**Archaeologist, Computer Applications in
Archaeology, 3D Visualisation and Recording
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Costas Papadopoulos was born and grew up in Piraeus. He studied history and archaeology at the University of Crete, and graduated in 2007 with a First Class result. During his studies he got prizes from the State's Scholarships Foundation and the Merchant Seamen's Fund for his performance. He continued his studies at the University of Southampton receiving a Master of Science in Archaeological Computing (Virtual Pasts) and especially in computer based analysis of virtual reconstructions as valuable tools to provide a better understanding of past reality. He graduated with a Distinction. At the moment, he is at the last stage of his PhD candidature in Archaeology at the University of Southampton employing formal and informal analytical tools and computer graphics to critically evaluate the ways that modern methodological tools and especially three-dimensional visualisations can enhance archaeological interpretation. His research interests are mainly focused on the theory of visualisation, perception and interpretation in prehistoric archaeology, as well as the processes of recording in archaeological fieldwork. He is particularly interested in the simulation of light in ancient environments attempting to enhance the interpretive process, as the interaction of architecture and light is usually neglected in archaeological reasoning.

He has worked as a trench supervisor at the excavations of the Peak Sanctuary of Vrysinas 2004-2008 (Director I. Tzachili), Koutroulou Magoula 2010 - to date (Directors N. Kyparissi-Apostolika & Y. Hamilakis) and Zominthos 2008 - to date (Directors Y. Sakellarakis & E. Sapouna-Sakellarakis), as well as at the surveys of Vrysinas and Thirasia (Director I. Tzachili). He founded the amateurish team 'Modern Archaeological Documentaries' taking part in National and International Festivals. He is also member of the Archaeological Computing Research Group (ACRG) of the University of Southampton, elected member of the Institute for Archaeologists (IFA) and member of the Program Committee in the International Conference of Computer Applications and Quantitative Methods in Archaeology 2012 and member of its review college since 2010. He has presented his work at the 2nd Conference of Prehistoric Archaeology, Computer Applications and Quantitative Methods in Archaeology (CAA - UK Chapter and International), Virtual Reality, Archaeology and Cultural Heritage (VAST), Theoretical Archaeology Group (TAG), Visualisation in Archaeology (ViA), EVA (Electronic Visualisation & the Arts) Cretological Congress etc. He has organised conferences, seminars, workshops and sessions and has teaching experience at both undergraduate and postgraduate level. He has published his work in a monograph, edited volumes, conference proceedings and various journals. He recently finished the co-edition of the book: *Thinking beyond the Tool: Archaeological Computing and the Interpretive Process* and is currently preparing an interdisciplinary volume on the *Archaeology and Language of Light: Interdisciplinary Studies in Experience and Perception*.

Education

2009-2013: PhD in Archaeology, Faculty of Humanities, University of Southampton.

Thesis: Materialising Interpretation: Construing the Understanding of the Greek Neolithic by Means of Computer Graphic Simulations and the Process of Reconstruction.

2007-2008: MSc in Archaeological Computing (Virtual Pasts), School of Humanities, University of Southampton, **Result:** Distinction.

Principal Subjects/Skills Covered: Advanced Databases, Web Design, Image Processing, Archiving, Metadata, Archaeological Computing Systems, GIS, AutoCAD, 3dsMax, Virtual Reconstructions in Archaeology.

2002-2007: Degree in History and Archaeology (major in Archaeology & History of Art), Department of History and Archaeology, University of Crete, Greece – 74 100, **Result:** 8.60 out of 10 (First Class).

Principal Subjects/Skills Covered: Many aspects of Prehistoric, Classic and Byzantine Archaeology, Representation of the Past, The Role of the Two Sexes in Archaeology, Mediating the Archaeological Knowledge, Ethics in Archaeology, History of Art.

Foreign Languages

-Proficiency in English (Mark B), University of Cambridge, European Level C2

-Edexcel Level 5 (Pass with Merit), University of London, European Level C2

-Certificat de Langue française, Sorbonne 1, European Level C1

-Working Knowledge of Italian

Computer Skills & Qualifications

-European Computer Driving License (ECDL Core Certificate)

Basic Concepts of IT, Using a Computer and Managing Files, Word Processing, Spreadsheets, Databases, Presentations, Information and Communication

-Microsoft Office Specialist

Microsoft PowerPoint version 2002, Microsoft Access version 2002, Microsoft Word version 2002, Microsoft Excel version 2002

-Video Editing – Pinnacle Studio, Adobe Premiere

-Image Processing (CorelDraw, Photoshop) and Archiving (AHDS Standards & Dublin Core Metadata)

-AutoCAD & 3ds Max

-Advanced Databases (Theory and Design)

-Web Design (Dreamweaver, XHTML, XML, CSS, Accessibility Issues)

Production of archaeological documentaries (foundation & co-ordination of the team *MAD Productions*)

- *Thrapsanos: Creating the Tradition of Jars*
- *Vrysinas 2004: Excavating the Sacred Mountain*
- *Days of Pottery* – Selected for the reference part of the International Festival of Archaeological Movies ‘Agon’, Thessaloniki December 2006
Also online: Part 1 <http://www.youtube.com/watch?v=Zi1tEH05kko>
Part 2 http://www.youtube.com/watch?v=HUZ59Rd5T_8
Part 3 <http://www.youtube.com/watch?v=ChvT3KTIHXg>
- *Days of Pottery: The Educational Program*
- *One Step Before Archaeology; The Formation of a Deposition* – Selected for the reference part of the *The Archaeology Channel* International Film and Video Festival, Eugene, Oregon, USA May 2011. Also online in Archaeology Channel Video News (August 2011): http://www.archaeologychannel.org/content/video/vidnews_aug11_700kW.html
- Zominthos : The Minoans on Psiloritis (in progress)

Working Experience

Fieldwork

2008-2012 - Excavation at Zominthos Central Building, Crete – Supervising archaeologist and IT specialist (Co-ordinators Prof. Yannis Sakellarakis & Dr Efi Sapouna-Sakellarakis)

2010-2012 - Excavation at the Neolithic Site Koutroulou Magoula, Phthiotida, Greece – Supervising archaeologist, 3D Visualisation Specialist (Co-ordinators Dr Nina Apostolika-Kyparissi & Prof. Yannis Hamilakis).

2004-2007 - Excavation of the Minoan peak sanctuary of Vrysinas - Supervising archaeologist (Co-ordinator Prof. Iris Tzachili)

2007 - Survey of the island Thirasia (Co-ordinator Prof. Iris Tzachili)

Laboratory

2010-2012 – 3D modeling, laser scanning, photogrammetry of the Neolithic Site Koutroulou Magoula, Phthiotida, Greece (Co-ordinators Dr Nina Apostolika-Kyparissi & Prof. Yannis Hamilakis)

2012 – Photogrammetry and Highlight RTI at Zominthos Central Building, Crete (Co-ordinator Dr Efi Sapouna-Sakellarakis)

2010 – Virtual Museum for the finds of the ‘Ceramics Workshop’ at Zominthos, Crete. (Co-ordinators Prof. Yiannis Sakellarakis & Efi Sapouna Sakellarakis)

2009-2012 - Research and management of data for the official website of the ‘Zominthos Project’ and the Interactive Dig section in Archaeology Magazine, US.

2009 - Virtual Reconstruction of the ceramics workshop of the archaeological site of Zominthos, Crete (Co-ordinators Prof. Yiannis Sakellarakis & Dr Efi Sapouna-Sakellarakis).

2004-2006 - Recording and documenting the finds of the Minoan peak sanctuary of Vrysinas (Co-ordinator Prof. Iris Tzachili)

2005 - Recording and documenting Byzantine pottery (Co-ordinator Dr Anastasia Yangaki)

Publications

Monograph

Papadopoulos, C. 2010. *Death management and virtual pursuits: A virtual reconstruction of the Minoan cemetery at Phourni, Archanes, examining the use of Tholos Tomb C and Burial Building 19 and the role of illumination, in relation to mortuary practices and the perception of life and death by the living.* BAR International Series 2082. Oxford: Archaeopress.

Edited Volumes

Chrysanthi, A., Murrieta Flores, P. and **Papadopoulos, C.** (eds) 2012. *Thinking beyond the Tool: Archaeological Computing and the Interpretive Process.* BAR International Series 2344. Oxford: Archaeopress.

Chrysanthi, A., **Papadopoulos, C.**, Murrieta Flores, P., Romanowska, I. (forthcoming). *Proceedings of the 40th Annual Conference on Computer Applications and Quantitative Methods in Archaeology (CAA2012).* Amsterdam University Press.

Papadopoulos, C. and Earl, G. (forthcoming). *Archaeology and the Language of Light. Interdisciplinary Studies in Experience and Perception.*

Conference Proceedings

Chrysanthi, A., **Papadopoulos, C.**, Frankland, T. (in press). ‘Tangible Pasts’: User-Centred Design of a Mixed Reality Application for Cultural Heritage, in *CAA 2012 Proceedings of Computer Applications & Quantitative Methods in Archaeology 2012* (Southampton, UK 23-28 March 2012).

Παπαδόπουλος, Κ. (forthcoming) *Ψηφιακή Σάρωση, Φωτογραμμετρία και Ψηφιακές (Ανα)Παραστάσεις: Αρχαιολογική Τεκμηρίωση & Ερμηνεία σε Τρεις Διαστάσεις: η Περίπτωση της Κουτρολού Μαγούλας* [Laser Scanning, Photogrammetry and Virtual Constructions: Archaeological Recording and Interpretation in Three Dimensions], in *Πρακτικά 4^{ης} Συνάντησης για το Έργο Θεσσαλίας – Στερεάς Ελλάδας 2009-2011*. (Βόλος, 16-18 Μαρτίου 2012)

Παπαδόπουλος, Κ. (forthcoming). Προκλήσεις στην αρχαιολογία του 21ου αιώνα: εικονική πραγματικότητα, ένα σύγχρονο εργαλείο στην αρχαιολογική έρευνα. Η περίπτωση του Μινωικού νεκροταφείου στο Φουρνί Αρχανών [Challenges in the Archaeology of the 21st Century: Virtual Reality, a Modern Tool in Archaeological Research – in Greek], in *Πρακτικά του 2ου Συνεδρίου Προϊστορικής Αρχαιολογίας στη μνήμη του Χρήστου Τσουντα* (Βόλος 4-7 Δεκεμβρίου 2008).

Παπαδόπουλος, Κ. & Σακελλαράκης, Γ. (in press). Επανεξετάζοντας το Κεραμικό Εργαστήριο της Ζωμίνθου: Αρχαιολογία, Εθνογραφία και Εφαρμογές Πληροφορικής [The Ceramics Workshop at Zominthos Revisited: Archaeology, Ethnography and Computer Applications – in Greek], in *Proceeding of the IA' International Cretological Congress* (Ρέθυμνο, Κρήτη 22-27 Οκτωβρίου 2011), Ιστορική & Λαογραφική Εταιρεία.

Papadopoulos, C. & Sakellarakis, Y. (in press). Virtual Windows to the Past: Reconstructing the 'Ceramics Workshop' at Zominthos, Crete, in J. Melero, P. Cano and J. Revelles (eds) *CAA 2010 Proceedings of Computer Applications & Quantitative Methods in Archaeology 2010* (Granada, Spain 6-9 April 2010).

Chrysanthi, A. **Papadopoulos, C.** Frankland, T. 2011. Evaluating 'Tangible Pasts': A Mixed Reality Application for Cultural Heritage, in *EVA 2011 Electronic Visualisation and the Arts 2011* (London 6-8 July 2011).

Papadopoulos, C. 2010. Illuminating the Burials in the Aegean Bronze Age: Natural & Artificial Light in a Mortuary Context, in A. Wilson (ed.) *UK CAA 2009, UK Chapter of Computer Applications & Quantitative Methods in Archaeology* (Liverpool 6-7 February 2009).

Papadopoulos, C. & Earl, G. 2009. Structural and Lighting Models for the Minoan Cemetery at Phourni, Crete, in *Proceedings of the 10th VAST International Symposium on Virtual Reality, Archaeology and Cultural Heritage* (Malta 22-25 September 2009).

Book Chapters

Papadopoulos, C. & Earl, G. (in press). Formal Three-dimensional Computational Analyses of Archaeological Spaces, in Paliou, E., Lieberwirth, U., Polla, S. (eds) *Spatial Analysis in Past Built Spaces – Workshop* (Berlin, 1-2 April 2010). Topoi, Excellence Cluster.

Earl, G., Porcelli, V., **Papadopoulos, C.**, Beale, G. Harrison, M., Pagi, H., and S. Keay (in press), Formal and Informal Analysis of Rendered Space: The Basilica Portuense In A. Bevan and M. Lake (eds), *Computational Approaches to Archaeological Spaces*.

Παπαδόπουλος, Κ. 2012. Αναζητώντας την Αρμονία των Αντιθέσεων στη Ζώμινθο [Looking for the Harmony of Antitheses at Zominthos – in Greek], in *Αυτή τη Μνήμη θα την Πω, Τόμος Μνήμης για τον Καθηγητή Γιάννη Σακελλαράκη*. Βικελαία Δημοτική Βιβλιοθήκη, Ηράκλειο.

Chrysanthi, A. Murrieta Flores, P. and **Papadopoulos, C.** 2012. Archaeological Computing: Towards Prosthesis or Amputation, in Chrysanthi, A., Murrieta Flores, P. and **Papadopoulos, C.** (eds) *Thinking beyond the Tool: Archaeological Computing and the Interpretive Process*. 7-13. BAR International Series 2344. Oxford: Archaeopress.

Journals

Papadopoulos, C. (in review). Surveying in Ruins: An Evaluation of Post-abandonment Formation Processes in Moussai, Crete (Greece), in *Journal of Mediterranean Archaeology*.

Hamilakis, Y. and Kyparissi-Apostolika, N., in collaboration with T. Loughlin, V. Tsamis, J. Cole, **C. Papadopoulos** and N. Zorzin 2012. Koutroulou Magoula in Central Greece: from the Neolithic to the Present, in *Antiquity on-line gallery* 86(333).

Papadopoulos, C. Looking beyond the Images. An Online Response to Emily Miller Bonney's Review of the Book: *Death Management and Virtual Pursuits: A Virtual Reconstruction of the Minoan Cemetery at Phourni, Archanes*, in *American Journal of Archaeology* (<http://www.ajaonline.org/online-review-book/991>).

Papadopoulos, C. & Kefalaki, E. 2010. At the Computer's Edge. The Value of Virtual Constructions to the Interpretation of Cultural Heritage, Guest Paper, in *Archeomatica* 4.

Papadopoulos, C. 2008. Review of *Archaeology and the Media*, edited by Timothy Clack & Marcus Brittain. Left Coast Press. June 2007, in *Archaeological Review from Cambridge* 23 (2). 230-232.

Member of the

Archaeological Computing Research Group, University of Southampton

CAA International Conference Reviewing College (since 2010)

Co-director of the Program Committee of CAA 2012 Conference, Southampton, UK

Founding Member and Publication Officer of CAAGR

The Institute for Archaeologists (IfA)