

Tuna KALAYCI

Consiglio Nazionale delle Ricerche
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Education

- 2013 Ph.D. Anthropology, University of Arkansas, Fayetteville
- 2006 M.Sc. Settlement Archaeology, Middle East Technical University, Ankara, Turkey
- 2003 B.Sc. Statistics, Middle East Technical University, Ankara, Turkey

Active Research Projects

- Marie Skłodowska-Curie Individual European Fellow, Modern Geospatial Practices for Ancient Movement Praxis – GeoMOP
- Assistant Director, the Neubauer Expedition to Zincirli Hoyuk – University of Chicago
- Assistant Director, the Kerkenes Dag Project – University of Central Florida

Academic Appointments

- Current Marie Skłodowska-Curie Individual European Fellow , Consiglio Nazionale delle Ricerche-Istituto per i Beni Archeologici e Monumentali (CNR-IBAM)
- 2013–2017 Postdoctoral Scholar, Institute for Mediterranean Studies, Greece
- 2013–2014 GIS and Remote Sensing Instructor, University of Delaware Architectural and Site Conservation Program Iraqi Institute for the Conservation of Antiquities and Heritage, Erbil, Iraq
- 2010–2013 Research Assistant, “Settlement Systems and Environmental Change in the Northern Fertile Crescent,” Center for Advanced Spatial Technologies (CAST), University of Arkansas
- 2008–2010 Research Assistant, “CORONA Digital Atlas of the Middle East Project,” Center for Advanced Spatial Technologies (CAST), University of Arkansas
- 2004–2007 Project Assistant, “Kerkenes Project,” Middle East Technical University, Ankara, Turkey

Publications

Refereed Journal Articles

Kalayci, T., F.-X. Simon and A. Sarris

2017 A Manifold Approach for the Investigation of Early and Middle Neolithic Settlements in Thessaly, Greece. *Geosciences*: 7(3), 79

Donati, J.C., A. Sarris, N. Papadopoulos, *T. Kalayci*, F.-X. Simon, M. Manataki, I. Moffat and C. Cuenca-Garcia

2017 A Regional Approach to Ancient Urban Studies in Greece through Multi-Settlement Geophysical Survey. *Journal of Field Archaeology* 42: 1-18

Kalayci, T.

2016 Settlement Sizes and Agricultural Production Territories: A Remote Sensing Case Study for the Early Bronze Age in Upper Mesopotamia. *Science and Technology in Archaeological Research*. 2(2): 217-234

Kalayci, T. and A. Sarris

2016 Multi-Sensor Geomagnetic Prospection: A Case Study from Neolithic Thessaly, Greece. *Remote Sensing: Special Issue on "Archaeological Prospecting and Remote Sensing."* 8(11), 966

Kalaycı, T.

2015 A Remote Sensing Approach for Exploring Ancient Traffic. *International Journal Heritage in the Digital Era* 4(3):257–274.

Agapiou, A., D. Alexakis, F.-X. Simon, **T. Kalaycı**, J. Donati, N. Papadopoulos, A. Sarris, and D. Hadjimitsis

2015 Extraction of Archaeological Information using High Resolution FormoSAT-2 Data. *International Journal Heritage in the Digital Era* 4(3): 241–255.

Simon, F.-X., **T. Kalaycı**, J. C. Donati, C. C. Garcia, M. Manataki, and A. Sarris

2015 How efficient is an integrative approach in archaeological geophysics? Comparative case studies from Neolithic settlements in Thessaly (Central Greece). *Near Surface Geophysics* 13(6): 633-643

Casana, J., J. Cothren, and **T. Kalaycı**

2012 Swords into Ploughshares: Archaeological Applications of CORONA Satellite Imagery in the Near East. *Internet Archaeology* 32.

Refereed Conference Proceedings

Sarris, A., **T. Kalaycı**, F.-X. Simon, J. Donati, C. C. García, M. Manataki, G. Cantoro, I. Moffat, E. Kalogiropoulou, G. Karampatsou, K. Armstrong, N. Argyriou, S. Dederix, C. Manzetti, N. Nikas, K. Vouzaxakis, V. Rondiri, P. Arachoviti, K. Almatzi, D. Efstathiou, and E. Stamelou

(in press) Opening a New Frontier in the Study of Neolithic Settlement Patterns of Eastern Thessaly, Greece. In *Proceedings of the Communities, Landscapes, and Interaction in Neolithic Greece, Rethymno, Crete, 29–30 May 2015*. International Monographs in Prehistory. Ann Arbor, Michigan.

Alram-Stern, E., A. Sarris, K. Vouzaxakis, K. Almatzi, P. Arxchoviti, V. Rondiri, D. Efstathiou, E. Stamelou, C. C. García, **T. Kalaycı**, F.-X. Simon, G. Cantoro, J. Donati, and M. Manataki

(in press) Magoula Visviki Revisited: Comparing Past Excavations' Data to Recent Geophysical Research. In *Proceedings of the Communities, Landscapes, and Interaction in Neolithic Greece, Rethymno, Crete, 29–30 May 2015*. International Monographs in Prehistory. Ann Arbor, Michigan.

Kalaycı, T.

2015 A Review on the Potential Use of CORONA Images of Greece. In *Proceedings of the Computer Applications in Archaeology Conference(CAA-GR) Rethymno, Crete, 7–8 March 2014* edited by Papadopoulos, C., Paliou, E., Chrysanthi, A., Kotoula, E., and A. Sarris, pp. 55-63. Institute for Mediterranean Studies-FORTH

Kalaycı, T.

2009 Predictive Modeling of Settlement Mounds in the Lake District Region and its Immediate Environs. In *Proceedings of the XI Symposium on Mediterranean Archaeology (SOMA), Istanbul Technical University, 24 and 29 April 2007*, edited by C.O. Aygun, pp. 171–178. Archaeopress.

Edited Books

Sarris, A., E. Kalogiropoulou, **T. Kalaycı**, and L. Karimali (editors)

(in press) *Proceedings of the International Conference on Communities, Landscapes, and Interaction in Neolithic Greece*. International Monographs in Prehistory. Ann Arbor, Michigan.

Book Chapters

T. Kalaycı

(contracted) Analysis of Satellite Remote Sensing Data. In *Archaeological Spatial Analysis: A Methodological Guide*, edited by Gary Lock, Mark Gillings, and Piraye Haciguzeller.

Wiley-Blackwell.

Sarris, A., **T. Kalaycı**, and I. Moffat

2017 An Introduction to Geophysical and Geochemical Methods in Digital Archaeology. In *Digital Geoarchaeology – New Technologies for Interdisciplinary Human-Environmental Research*, edited by C. Siart, M. Forbiger, and O. Bubenzer, pp. 215-236. Springer Series on Natural Sciences in Archaeology.

Branting, S., J. Lehner, S. B. Tirpan, S. R. Graff, J. M. Marston, **T. Kalaycı**, Y. Özarslan, D. Langis-Barsetti, L. Proctor and P. Paulsen

2017 The Kerkenes Project 2015-2016. Steadman, Sharon R. and Gregory McMahon, eds. *The Archaeology of Anatolia: Recent Discoveries (Volume 2)*, Cambridge: Cambridge Scholars Publishing.

Kalaycı, T.

2015 Remote Sensor Data Integration: Methods and Obstacles. In *Best Practices of Geoinformatic Technologies for the Mapping of Archaeolandscapes*, edited by A. Sarris, pp. 71–84. Archaeopress, Oxford.

Armstrong, K. and **T. Kalaycı**

2015 Images of the Past: Magnetic Prospection in Archaeology. In *Best Practices of Geoinformatic Technologies for the Mapping of Archaeolandscapes*, edited by A. Sarris, pp. 1–12. Archaeopress, Oxford.

Manataki, M., A. Sarris, J. C. Donati, C. C. Garcia, and **T. Kalaycı**

2015 GPR: Theory and Practice in Archaeological Prospection. In *Best Practices of Geoinformatic Technologies for the Mapping of Archaeolandscapes*, edited by A. Sarris, pp. 13–25. Archaeopress, Oxford.

Sarris, A., C. C. Garcia, **T. Kalaycı**, F.-X. Simon, G. Cantoro, J. Donati, J. Manataki, K.

Vouzaxakis, V. Rondiri, P. Arachoviti, K. Almatzi, D. Efstathiou, and E. Stamelou

2015 Magoula Visviki from a Geophysical Prospection Perspective. In *Visviki–Magula / Velestino Die Neolithischen Befunde und Funde*, edited by E. Alram-Stern and A. Dousougli-Zachos, pp. 573–578. Dr. Rudolf Habelt, Bonn.

Articles in Newsletters and Non-Refereed Scholarly Publications

Cantoro, G., N. Papadopoulos, N. Argyriou, K. Armstrong, C. C. Garcia, J. C. Donati, **T. Kalaycı**, I. Moffat, A. Sarris, and F.-X. Simon

2015 A Satellite, Aerial and Low-Altitude Approach for Ancient Greek Cities. *ISAP News* (42):3–6.

Sarris, A., **T. Kalaycı**, and N. Papadopoulos

2013 Geophysical Prospection on the Volcanic Environs of Therasia Island, Cyclades, Greece. *ISAP News* (37):2–4.

D. B. Erciyas, E. Sokmen, and **T. Kalaycı**

2008 Tokat İli Komana Antik Kenti Yüzey Araştırması 2006. *Araştırma Sonuçları Toplantısı 2*. Cilt 28 Mayıs–1 Haziran 2007, Kocaeli, 197–212.

Published Book Reviews

Kalaycı, T.

2014 High Resolution Optical Satellite Imagery. *Photogrammetric Engineering and Remote Sensing* 80(3):213.

Kalaycı, T.

2009 Manual of Geographic Information Systems. *American Society of Photogrammetry and Remote Sensing (ASPRS)*. Bethesda, MD. ASPRS Members.

Academic Presentations

- 2017 *Kalayci, T.* "Modelling the Volume of Ancient Movement: A Satellite Remote Sensing Approach." Annual International Conference on Computer Applications and Quantitative Methods in Archeology (CAA), March 14–16, 2017, Atlanta, GA.
- 2017 *Kalayci, T.,* M. Manataki, and A. Sarris "The More the Merrier? Two Conflicting Stances on Multi-Array Sensors." Annual International Conference on Computer Applications and Quantitative Methods in Archeology (CAA), March 14–16, 2017, Atlanta, GA.
- 2017 *Kalayci, T.* "A Satellite Remote Sensing Model for the Ancient Traffic in Upper Mesopotamia." Society for American Archaeology: 82nd Annual Meeting March 29–April 2, 2017, Vancouver, BC.
- 2017 Sarris, A. *T. Kalayci,* and F.-X. Simon "Neolithic Enclosures in Neolithic Greece: A Geospatial Approach." Society for American Archaeology: 82nd Annual Meeting March 29–April 2, 2017, Vancouver, BC.
- 2016 Donati, J. C., *T. Kalayci,* N. Tsivikis, and A. Sarris (accepted abstract). "Late Roman and Byzantine Urbanism at a Glance: Results from Remote Sensing and Geophysical Prospection at Amorium." Computer Applications and Quantitative Methods in Archeology (CAA) – Greek Chapter, December 20–21, 2016, Athens, Greece.
- 2016 Donati, J, *T. Kalayci,* A. Sarris, A. and N. Tsivikis "The IMS/FORTH Amorium Urban Archaeology Project: First Results in Amorium: A Byzantine Provincial Capital in the Setting of the Empire" An International Workshop - Amorium Urban Archaeology Project 25-26 November 2016, Athens, Greece
- 2016 *Kalayci, T.* "Putting Production Landscapes into Context: A Multi-Faceted Case Study from Upper Mesopotamia during the Early Bronze Age." 44th Annual International Conference on Computer Applications and Quantitative Methods in Archeology (CAA), Oslo, Norway.
- 2016 *Kalayci, T.* and A. Sarris. "Picking Needles from a Magnet: Obstacles and (Hidden) Opportunities of Magnetic Prospection in Challenging Environments." 44th Annual International Conference on Computer Applications and Quantitative Methods in Archeology (CAA), Oslo, Norway.
- 2016 Branting, S. and *T. Kalayci.* "Kerkenes Dag: Materializing an Imaginary City." 44th Annual International Conference on Computer Applications and Quantitative Methods in Archeology (CAA), Oslo, Norway.
- 2016 Sarris, A., *T. Kalayci,* F.-X. Simon, J.C. Donati, I. Moffat, C. Cuenca-Garcia, M. Manataki, G. Cantoro, N. Nikas, N. Argyriou, S. Déderix, G. Karampatsou, E. Kalogiropoulou, C. Manzetti, K. Vouzaxakis, V. Rondiri, P. Arachoviti, K. Almatzi, D. Efstathiou & E. Stamelou "New Perspectives on Neolithic Agricultural Villages in Eastern Thessaly (Greece) Through Remote-Sensing Applications" Archaeological Institute of America and American Philological Association Joint Annual Meeting January 8-11, San Francisco, USA.
- 2015 *Kalayci, T.* "A Cross-Comparative Study for the use CORONA Satellite Imagery in Diverse Archaeological Landscapes." European Space Agency, EARSel Workshop on Advances in Remote Sensing for Cultural Heritage: From Site Detection to Documentation and Risk Monitoring, 12–13 November, Frascati (Rome), Italy.
- 2015 Sarris, A., J. C. Donati, *T. Kalayci,* F.-X. Simon, M. Manataki, C. C. Garcia, and G. Cantoro. "Amalgamation of Satellite Remote Sensing and Geophysical Prospection for the Investigation of Ancient Cities: Two Case Studies from Demetrias and Pherai at the Region of Magnesia, Thessaly, Greece." 8th Congress of the Balkan Geophysical Society, 4–8 October, Chania, Greece.
- 2015 Manataki, M., *T. Kalayci,* N. Papadopoulos, and A. Sarris. "Data Integration in Archaeological Prospection: A Synthetic Approach." 8th Congress of the Balkan

Geophysical Society, 4–8 October, Chania, Greece.

- 2015 *Kalaycı, T.* "Rain-fed Agricultural Production in Upper Mesopotamia during Early Bronze Age: A 'Strictly' Remote Sensing Perspective." Water History Conference, June 24–26, Delft, the Netherlands.
- 2015 Sarris, A., *T. Kalaycı*, and N. Papadopoulos. "Geophysical Research in Therasia: Revealing the Cultural Dynamics in Volcanic Environments." Islands in a Diachronic Perspective, June 19–20, Thessaloniki, Greece.
- 2015 Simon, F.-X., *T. Kalaycı*, Donati, J., Manataki, M., Cuenca-García, C., Cantoro, G. & Sarris, A., Landscape Morphology in Thessaly during the Neolithic Period: Contributions from an Integrated Approach, GMPCA – Groupe des Méthodes Pluridisciplinaires Contribuant à l'Archéologie, Archeometry 2015, 27-30 April 2015 Besancon, France
- 2015 *Kalaycı, T.* "Paleoprecipitation Reconstruction from Oxygen Isotope Data: A Case Study from Upper Mesopotamia." International Open Workshop, Socio-Environmental Dynamics over the Last 12,000 Years: The Creation of Landscapes IV, March 24–27, Kiel University, Kiel.
- 2015 *Kalaycı, T.*, F.-X. Simon, G. Cantoro, J. C. Donati, C. C. Garcia, M. Manataki, and A. Sarris. "Domestic Patterns of the Neolithic Agricultural Villages in Eastern Thessaly: A Remote Sensing Approach." International Open Workshop, Socio-Environmental Dynamics over the Last 12,000 Years: The Creation of Landscapes IV, March 24–27, Kiel University, Kiel.
- 2015 *Kalaycı, T.* "Archaeological Sites and Site Territories: A Remote Sensing Approach for Modelling Production Landscapes." 43rd Annual International Conference on Computer Applications and Quantitative Methods in Archeology (CAA) – Sienna, Italy.
- 2015 *Kalaycı, T.* and A. Sarris "Sensor Data Integration: Concepts and Methods." 43rd Annual International Conference on Computer Applications and Quantitative Methods in Archeology (CAA) – Sienna, Italy.
- 2015 Papadopoulos, N., M. Manataki, and *T. Kalaycı*. "Sensor Fusion in Geophysics: A Synthetic Approach." 43rd Annual International Conference on Computer Applications and Quantitative Methods in Archeology (CAA) – Sienna, Italy.
- 2015 Manataki, M., A. Sarris, *T. Kalaycı*, F.-X. Simon, C. C. Garcia, J. C. Donati, and N. Papadopoulos. "Studying the Variation of Geophysical Signals of the Architectural Attributes of the Neolithic Tells and Landscape." 43rd Annual International Conference on Computer Applications and Quantitative Methods in Archeology (CAA) – Sienna, Italy.
- 2015 Sarris, A., M. Argyriou, *T. Kalaycı*, F.-X. Simon, J. C. Donati, C. C. Garcia, G. Cantoro, and M. Manataki. "Neolithic Ditches in Thessaly." Special Session on Remote Sensing and GIS for Archaeology and Cultural Heritage. Third International Conference on Remote Sensing and Geoinformation of Environment, 16–19 March, Cyprus.
- 2015 Donati, J. C., A. Sarris, G. Cantoro, C. C. García, *T. Kalaycı*, M. Manataki, F.-X. Simon, and K. Vouzaxakis. "Results of the IGEAN Project 2013–2014: An Integrated Geophysical Survey Campaign at Neolithic Settlements in Thessaly (Central Greece)." Settlements, Culture and Population Dynamics in Balkan Prehistory International Conference, 13–14 March, City Museum of Skopje, Skopje, Republic of Macedonia.
- 2015 Sarris, A., C. C. Garcia, J. C. Donati, *T. Kalaycı*, M. Manataki, F.-X. Simon, and K. Vouzaxakis. "New Perspectives on Neolithic Agricultural Villages in Eastern Thessaly (Greece) Through Remote Sensing Applications." Archaeological Institute of America 2015 Annual Meeting, 8–11 January, New Orleans, LA.
- 2015 Donati, J. C., A. Sarris, C. C. Garcia, *T. Kalaycı*, N. Papadopoulos, and Simon, F.-X. "The Urban Plan of Mantinea in the Peloponnese: An Integrated Geophysical and Satellite

- Remote Sensing Fieldwork Campaign." SESSION 1 Reports from the Field: Greece. Archaeological Institute of America 2015 Annual Meeting, 8–11 January, New Orleans, LA.
- 2014 Sarris, A., M. Manataki, J. C. Donati, C. C. Garcia, *T. Kalayci*, F.-X. Simon, and N. Papadopoulos. "GPR Approaches in Revealing the Urban Planning of Ancient Mantinea." NSGG Day Meeting on Archaeological Geophysics, Burlington House, December 2.
- 2014 Cantoro, G., A. Sarris, C. C. Garcia, *T. Kalayci*, F.-X. Simon, J. Donati, M. Manataki, K. Vouzaxakis, V. Rondiri, P. Arachoviti, K. Almatzi, D. Efstathiou, and E. Stamelou. "From Field-work to... "Air-work": Photogrammetric Applications in Neolithic Landscape Reconstruction." AARG2014, Aerial Archaeology Research Group, Dublin, Ireland.
- 2014 Cantoro, G., A. Sarris, *T. Kalayci*, F.-X. Simon, J. C. Donati, M. Manataki, K. Vouzaxakis, V. Rondiri, P. Arachoviti, K. Almatzi, D. Efstathiou, and E. Stamelou. "Photogrammetric Low Altitude Fieldwork in Neolithic Thessaly (Greece): Potentials and Issues." UAV Conference 2014: Big Work for Small Planes – Using UAVs and Kites for Archaeology, Organized by the ArchaeoLandscapes EuropeProject (ArcLand) and the Berlin Free University Excellence Cluster Topoi, 23–24 May, Topoi House Dahlem, Berlin, Germany.
- 2014 Garcia, C. C., A. Sarris, *T. Kalayci*, F.-X. Simon, G. Cantoro, J. Donati, M. Manataki, K. Vouzaxakis, V. Rondiri, P. Arachoviti, K. Almatzi, D. Efstathiou, and E. Stamelou. "Walking over Magoulas: Mapping Neolithic Tell Settlements in Thessaly (Greece) Using Integrated Archaeo-geophysical Techniques." UISPP International Conference, 1–7 September, Burgos, Spain.
- 2014 Sarris, A., J. C. Donati, G. Cantoro, C. C. Garcia, *T. Kalayci*, F.-X. Simon, M. Manataki, K. Vouzaxakis, V. Rondiri, P. Arachoviti, K. Almatzi, D. Efstathiou, and E. Stamelou. "Habitation Patterns of the Neolithic Agricultural Villages in Eastern Thessaly (Greece) Through Remote Sensing Applications." European Association of Archaeologists 20th Annual Meeting, 10–14 September, Istanbul, Turkey.
- 2014 *Kalayci, T.* "Geophysical Methods." Ariadne Modeling Scientific Data Group Workshop, 21–24 July, Souda Bay, Plakias, Rethymnon, Greece.
- 2014 *Kalayci, T.* "A Re-evaluation of the Early Bronze Age Collapse in Upper Mesopotamia." Computer Applications and Quantitative Methods in Archaeology (CAA) April 22–25, Paris, France.
- 2014 *Kalayci, T.* "A Review on the Potential Use of CORONA Images of Greece." Computer Applications and Quantitative Methods in Archeology (CAA) – Greek Chapter, March 6–8, Rethymnon, Greece.
- 2014 Sarris, A., K. Sbonias, *T. Kalayci*, E. Farinetti, and I. Tzachili. "The Geophysical Survey Beyond the Site." Computer Applications and Quantitative Methods in Archeology (CAA) – Greece Chapter, March 6–8, Rethymnon, Greece.
- 2014 *Kalayci, T.* "A Proposal for Modeling the Volume of Ancient Movement in Upper Mesopotamia." REMote Sensing Technologies in Cultural Heritage Workshop (REStECH I), Laboratory of Geophysical-Satellite Remote Sensing & Archaeoenvironment, Rethymnon, Greece.
- 2014 *Kalayci, T.* "Agricultural Surplus, Climate Change and the 'Collapse' of an Urban System: A Remote Sensing Approach." REMote Sensing Technologies in Cultural Heritage Workshop (REStECH I), Laboratory of Geophysical-Satellite Remote Sensing & Archaeoenvironment, Rethymnon, Greece.
- 2014 Agapiou, A., A. Dimitrios, F.-X. Simon, *T. Kalayci*, J. C. Donati, N. Papadopolos, A. Sarris, and D. Hadjimitsis. "Extraction of Archaeological Information using High Resolution FORMOSAT-2 Data." Digital Heritage: Progress in Cultural Heritage Documentation, Preservation and Protection, 3–8 November, Limassol, Cyprus.

- 2013 *Kalayci, T.* "Demographic Incentives of Early Bronze Age Agricultural Production in Upper Mesopotamia: A Reevaluation." American Schools of Oriental Research, November 20–23, Baltimore, MD.
- 2012 Casana, J., J. Cothren, and *T. Kalayci.* "Settlement Systems of the Northern Fertile Crescent: Results from the Corona Imagery Atlas Project." Society for American Archaeology 77th Annual Meeting, Memphis, TN.
- 2012 *Kalayci, T.* "Agricultural Sustainability of the Early Bronze Age Settlement Systems in the Syrian Jazira." Association of American Geographers (AAG) Annual Meeting, New York, NY.
- 2011 *Kalayci, T.* "CORONA Archaeological Atlas of the Middle East: An Early Bronze Age Case Study from the Atlas." Association of American Geographers (AAG) Annual Meeting, Seattle, WA.
- 2010 Cothren, J., J. Casana, *T. Kalayci,* A. Barnes, and P. Smith. "Building the Corona Satellite Imagery Atlas." MidAmerica GIS Consortium, Kansas City, MO.
- 2010 *Kalayci, T.* "CORONA Imagery Archaeological Atlas of the Middle East." Invited talk at the Cotsen Institute, UCLA, Los Angeles, CA.
- 2010 *Kalayci, T.* "Spectral Mixture Analysis of Ancient Sherd Scatters." Poster presentation at the American Society of Photogrammetry and Remote Sensing (ASPRS) Annual Meeting, San Diego, CA.
- 2009 *Kalayci, T.,* J. Cothren, A. Barnes, J. Casana. "Accuracy of DEM Generation from CORONA Stereo Pair Images." 37th Annual International Conference on Computer Applications and Quantitative Methods in Archeology (CAA) - Making History Interactive, Williamsburg, VA.
- 2009 Cothren J., A. Barnes, J. Casana, and *T. Kalayci.* "Effects of Ground Control Point Accuracy on Triangulation and Ortho-rectification of Large Blocks of CORONA Images." 37th Annual International Conference on Computer Applications and Quantitative Methods in Archeology (CAA) - Making History Interactive, Williamsburg, VA.
- 2007 *Kalayci, T.* "Predictive Modeling of Settlement Mounds (9000-5500 B.C.) in the Lake District Region and its Immediate Environs." Symposium in Mediterranean Archaeology (SOMA) 2007, Istanbul, Turkey.
- 2006 *Kalayci, T.* "GIS Applications at Kerkenes Dağ, a Prospective Approach." 11th ESRI and ERDAS User Conference, 15–16 June 2006, Ankara, Turkey.
- 2006 *Kalayci, T.* "Predictive Modeling in Archaeology." British Institute of Archaeology at Ankara (BIAA) Post Graduate Workshop, Ankara, Turkey.

Archaeological / Geophysical Fieldwork

- The Neubauer Expedition to Zincirli Project (Turkey), 2015-2017
- Kerkenes Dag (Turkey), 2002–2008, 2015–2017
- Thessaly (Greece), 2016
- Bekes (Hungary), 2016
- Haliartos Archaeological Project, (Greece), 2016
- Marathonas-Vranas (Greece), 2016
- Salamina – The Finnish Institute at Athens Project (Greece), 2016-2017
- Lechion – American School of Classical Studies at Athens Project (Greece), 2016
- Argos – University of Geneva Project (Greece), 2016
- Mtsvane Gora/Kavakh Tepe Project (Georgia), 2016
- Amorium Archaeological Project, (Turkey), 2015
- Pagalochori (Greece), 2015
- Thessaly (Greece), 2013–2015

- Mantenia – Elis (Greece), 2014
- Therasia Island (Greece), 2013–2014
- Trapeza Aigiou (Greece), 2013
- Hirbemerdon Tepe (Turkey), 2011
- Glen Canyon, Defiance House (USA), 2010
- Tell Hamoukar (Syria), 2010
- Tell Qarqur (Syria), 2008, 2010
- Kinet Hoyuk (Turkey), 2008
- Domuztepe (Turkey), 2008
- Komana Pontika (Turkey), 2005–2006
- Yalıncağ-Koçumbeli (Turkey), 2006
- Çatalhöyük (Turkey), 2005
- Hakemi Use (Turkey), 2005

Teaching Experience

- 2017 Field School Instructor, University of Central Florida, The Kerkenes Project
- 2014 Workshop Instructor, Remote Sensing Technologies in Cultural Heritage Workshop (RESTeCH I), Laboratory of Geophysical-Satellite Remote Sensing & Archaeoenvironment, Rethymnon, Greece
- 2013–2014 GIS and Remote Sensing Instructor, University of Delaware Architectural and Site Conservation Program Iraqi Institute for the Conservation of Antiquities and Heritage, Iraq
- 2012 Workshop Instructor, “Using Declassified CORONA Satellite Imagery in Archaeological Investigations,” Society for American Archaeology 77th Annual Meeting, Memphis, TN
- 2007 Teaching Assistant, “Introduction to Cultural Anthropology,” University of Arkansas

Grants and Awards

- 2017-2019 Marie Skłodowska-Curie European Fellow
- 2010 Alaska Satellite Facility (ASF), SAR Data Center, Radar Imagery Grant
- 2008–2012 University of Arkansas, Graduate School Travel Grants
- 2008 University of Arkansas, Center for Middle East and Islamic Studies Graduate Research Award

Project Participations

- HORIZON 2020, Safeguarding Cultural Heritage through Technical and Organizational Resources Management (STORM)
- GSRT 2015-2017, Monitoring and Modeling of Natural Environment and Resources: The Case of Crete
- NSRF-Thalis 2012-2014, Island Cultures in a Diachronic Perspective: The Case of Therasia
- Archaeo-FORMOSAT: Investigating the Potential of FORMOSAT 2 Imagery in Archaeological Research
- ARISTEIA (EXCELLENCE) II-AncientCity: The Application of Novel Geo-Information Technologies in Ancient Greek Urban Studies, Operational Programme «Education and Life Long Learning»
- "Amorium Urban Archaeology Project" , the Stavros Niarchos Foundation
- KRIPIS – POLITEIA: Culture-Technology: New technologies in research, study,

documentation and accessibility in the information of items and monuments of cultural heritage, Operational Programme

- ARISTEIA (EXCELLENCE) I -Innovative Geophysical Approaches for the Study of Early Agricultural Villages of Neolithic Thessaly - IGEAN, Operational Programme «Education and Life Long Learning»
- CORONA Digital Atlas of the Middle East Project – Supported by the National Endowment for the Humanities (NEH)
- Settlement Systems for Environmental Change in the Northern Fertile Crescent, supported by the National Aeronautics and Space Administration (NASA)

Professional Activities and Service

Committee Participation

- Computer Applications & Quantitative Methods in Archaeology (CAA): Scientific Committee Member, 2016–2018
- CAA-Greek Chapter (CAA-GR): Treasurer and Board Member, 2015–2018

Organizations

- Communities, Landscapes, and Interaction in Neolithic Greece – IGEAN International Conference 29–30 May 2015, Crete, Greece: Organization Committee Member
- REMote Sensing Technologies in Cultural Heritage Workshop 2014 (RESTeCH I), 2014 Laboratory of Geophysical-Satellite Remote Sensing & Archaeoenvironment, Rethymnon, Greece
- “Approaches for Sensor Data Integration for the Investigation of Archaeological Landscapes,” 43rd Annual International Conference on Computer Applications and Quantitative Methods in Archeology (CAA) – Sienna, Italy, 2015: Session Organizer
- “Using Declassified CORONA Satellite Imagery in Archaeological Investigations,” Society for American Archaeology 77th Annual Meeting, Memphis, TN, 2012: Workshop Organizer

Memberships

- Computer Applications in Archaeology (CAA)
- International Society for Archaeological Prospection (ISAP)
- European Association of Geoscientists & Engineers (EAGE)
- Society for Archaeological Sciences (SAS)
- European Geosciences Union (EGU)
- Society for American Archaeology (SAA)

Refereeing

- Remote Sensing
- Sensors
- Journal of Archaeological Science, Reports
- International Journal Heritage in the Digital Era
- Computer Applications in Archaeology (CAA) Proceedings

Computing and Surveying Skills

Languages and Libraries

C, Python, MATLAB, R

Geographical Information Systems and Remote Sensing

ESRI – ArcGIS, QGIS, Golden Software-Surfer
ERDAS IMAGINE, PCI Geomatica

Global Positioning System

Trimble 5700; GeoXM Series, Leica GS09 Instruments, Triumph Javad 1,2

Photogrammetry

Leica Photogrammetry Suite (LPS), Visual SFM, Photoscan

Geophysics Software

Geoplot 3.0, TerraSurveyor, Archaeofusion, Snuffler
MIRASoft, MALA rSlicer, GPR-Slice
DLMGPS – MagnetoARCH

Geophysics Instrumentation

- Geoscan Resistance Meter RM15-85; Gradiometer FM256
- Bartington G601Field Systems
- MALA GPR Imaging Radar Array (MIRA)
- Noggin GPR System (250 MHz Antenna)
- SENSYS Compact MX Multi-Sensor Gradiometer System
- Geophex, GEM-2 EMI