

Isaac I.T. Ullah

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ACADEMIC EMPLOYMENT

- 2014–Present Postdoctoral Research Scholar, School of Human Evolution and Social Change, Arizona State University, Tempe, AZ.
- 2013–2014 Visiting Scholar, Center for Comparative Archaeology, University of Pittsburgh, Pittsburgh, PA.
- 2012–2013 Visiting Assistant Professor of Anthropology, Department of Anthropology, University of Notre Dame, Notre Dame, IN.

EDUCATION

- 2013 Ph.D., Anthropology. Arizona State University.
- 2003 M.A., Anthropology. University of Toronto.
- 2001 B.S., Anthropology. University of California, Davis.

RESEARCH INTERESTS

Long-term human eco-dynamics
Landscapes, geoarchaeology, and earth-surface dynamics
Plant and animal domestication and intensification

GRANTS, FELLOWSHIPS, AND AWARDS

Research Grants

- 2014–2016 *New Perspectives in Archaeology: The Socio-ecological Agent-based Modeling of the Early Bronze Age I of Arslantepe (Malatya)*. PI: B. Arıkan. Foreign Researchers: **I.I.T. Ullah**, and S. Bergin (PI's/CI's limited to Turkish nationals only). Research grant from TUBITAK, The Scientific and Technological Research Council of Turkey, Research and Development Funding Program. Amount received: \$30,000.
- 2013–2017 *The Emergence of Coupled Natural and Human Landscapes in the Western Mediterranean*. PI: C.M. Barton. CI's: S. Sarjoughian, A. Heimsath, M. Acevedo, J. Riel-Salvatore. Senior Personnel: E. Vivoni, J. Bernabeu, **I.I.T. Ullah**. Dynamics of Coupled Natural and Human Systems grant from the National Science Foundation. Amount received: \$1,300,000
- 2013–2015 *Archaeological Survey and the Neolithic of the Levant*. PI's: E.B. Banning and S.T. Stewart. Collaborator: **I.I.T. Ullah**. Insight grant from the Social Sciences and Humanities Research Council of Canada. Amount received: \$282,000

Research Grants In Preparation

Slow Recovery: Land Use and Human Impacts in Post-Contact Southern Arizona. PI's: **I.I.T. Ullah** and J.S. Watts. In preparation for submission to the CNH program of the NSF, Fall, 2015.

Fellowships

2011–2012 Arizona State University Dean's Fellow. Amount: \$30,000/year.

2008–2010 Arizona State University Dean's Advanced Scholar.. Amount: \$35,000/year.

Awards

2010 University Consortium for Geographic Information Science Student Paper Award

AFFILIATIONS

Affiliations and Professional Memberships

Society for American Archaeology; CHANS-Net: International Network of Research on Coupled Human and Natural Systems; Community Surface Dynamics Modeling System – Anthropocene Working Group; ASU Center for Social Dynamics and Complexity

PUBLICATIONS

Articles in Peer-Reviewed Journals

- n.d. **Ullah, I.I.T.** *Integrating older survey data into modern research paradigms: Identifying and correcting spatial error in “legacy” datasets.* Advances in Archaeological Practice. Accepted for publication. Expected print date, 10/2015.
- 2015 **Ullah, I.I.T.**, Kuijt, I., and Freeman, J.F. *Toward a theory of punctuated subsistence change.* Proceedings of the National Academy of Sciences. Available ahead of print online. doi:10.1073/pnas.1503628112
- 2015 **Ullah, I.I.T.**, Duffy, P.R., and Banning, E.B. *Modernizing spatial micro-refuse analysis: New methods for collecting, analyzing, and interpreting the spatial patterning of micro-refuse from house-floor contexts.* Journal of Archaeological Method and Theory. Available ahead of print online. doi: 10.1007/s10816-014-9223-x
- 2015 Barton, C.M., **Ullah, I.I.T.**, and Heimsath, A. *How to make a Barranco: Modeling socioecological dynamics of landscape change in the Mediterranean.* Land, special issue: “Agent-Based Modelling and Landscape Change.” 4(3), 578-606.
- 2012 Barton, C.M., **Ullah, I.I.T.**, Bergin, S.M., Mitsova, H., and Sarjoughian, H. *Looking for the future in the past: Long-term change in socioecological systems.* Ecological Modeling, special issue: “Modeling Across Millennia.” 241(0):42-53.
- 2011 **Ullah, I.I.T.** *A GIS method for assessing the zone of human-environmental impact around archaeological sites: a test case from the Late Neolithic of Wadi Ziqlâb, Jordan.* Journal of Archaeological Science. 38(3):623-632.
- 2010 Barton, C.M., **Ullah, I.I.T.**, and Bergin, S. *Land use, water and Mediterranean landscapes: Modelling long-term dynamics of complex socio-ecological systems.* Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences. 368(1931):5275 -5297.

- 2010 Barton, C.M., **Ullah, I.I.T.**, and Mitasova, H. *Computational modeling and Neolithic socioecological dynamics: A case study from Southwest Asia*. American Antiquity. 75(2):364-386.

Books

Ullah, I.I.T. *Neolithic Human Landuse in Northern Jordan: A Simulation Modeling Approach*. Under contract for publication by Arizona State University Anthropological Research Papers. Status: In revision. Initial copy edit and editorial comments received, 8/30/2015. Expected 2016 publication date.

Articles in Edited Volumes

- 2015 Sarjoughian, H., Mayer, G., **Ullah, I.I.T.**, and Barton, C.M. *Managing Hybrid Model Composition Complexity: Human–Environment Simulation Models*. In: Levent Yilmaz (Ed.), Concepts and Methodologies for Modeling and Simulation. Springer, 107-134. DOI: 10.1007/978-3-319-15096-3
- 2013 Mitasova, H., Barton, C.M., **Ullah, I.I.T.**, Hofierka, J., and Harmon, R.S., *GIS-based soil erosion modeling*. In: Treatise in Geomorphology, Vol. 3: Remote Sensing and GIScience in Geomorphology. Academic Press, San Diego. pp. 228-258
- 2012 **Ullah, I.I.T.** *Particles from the past: microarchaeological spatial analysis of ancient house floors*. In: Parker, B.J., Foster, C.P. (Eds.), New Perspectives in Household Archaeology. Eisenbrauns, Winowna Lake, pp. 123–138.
- 2012 **Ullah, I.I.T.**, and Bergin, S.M. *Modeling the consequences of village site location: Least cost path modeling in a coupled GIS and agent-based model of village agropastoralism in eastern Spain*, in: White, D.A., Surface-Evans, S.L. (Eds.), Least Cost Analysis of Social Landscapes: Archaeological Case Studies. University of Utah Press, Salt Lake City, pp. 155–173.
- 2009 **Ullah, I.I.T.** *Within-room spatial analysis of activity areas at Late Neolithic Tabaqat Al-Buma, Wadi Ziqlab, Al Koura, Jordan*. In: Studies in the History and Archaeology of Jordan, X. The Department of Antiquities of Jordan, Amman, pp. 87-95.

Peer-Reviewed Computer Software

- 2015 Barton, C.M., **Ullah, I.I.T.**, Mayer G., Bergin, S., Sarjoughian, H., and Mitasova, H. *MedLanD Modeling Laboratory v.1* - A hybrid modeling environment that couples an agent-based model of small-holder agropastoral households and a cellular landscape evolution model that simulates changes in erosion/deposition, soils, and vegetation. Retrievable from: CoMSES Computational Model Library, www.openabm.org/model/4609/version/1

Publicly Available Computer Software

- 2015 **Ullah, I.I.T.** *AgModel, v.0.3* - An agent-based model of a potential scenario for the forager-farmer transition written. Retrievable from: GitHub, [dx.doi.org/10.5281/zenodo.17551](https://doi.org/10.5281/zenodo.17551)
- 2015 Ullah, I.I.T. *r.viewshed.cva* - A GRASS GIS module that undertakes a “cumulative viewshed analysis” using a vector points map as input “viewing” locations. Retrievable from: GRASS Addons Repository, svn.osgeo.org/grass/grass-addons/grass7/raster/r.viewshed.cva/

- 2014 **Ullah, I.I.T.**, Barton, C.M., Mitsova, H. *r.landscape.evol* – A GRASS GIS module that simulates the cumulative effect of erosion and deposition on a landscape over time. Retrieval from: [GRASS Addons Repository](http://svn.osgeo.org/grass/grass-addons/grass7/raster/r.landscape.evol/), svn.osgeo.org/grass/grass-addons/grass7/raster/r.landscape.evol/
- 2014 **Ullah, I.I.T.** *r.floorsim* – A GRASS GIS module that simulates artifact deposition on a housefloor, with site formation disturbance, sampling, and re-randomization. Retrieval from: [GRASS Addons Repository](http://svn.osgeo.org/grass/grass-addons/grass6/raster/r.floorsim/), svn.osgeo.org/grass/grass-addons/grass6/raster/r.floorsim/
- 2014 **Ullah, I.I.T.** *r.soildepth* – A GRASS GIS module that estimates soil depths on a landscape based on hillslope curvatures. Retrieval from: [GRASS Addons Repository](http://svn.osgeo.org/grass/grass-addons/grass6/raster/LandDyn/r.soildepth.py/), svn.osgeo.org/grass/grass-addons/grass6/raster/LandDyn/r.soildepth.py/
- 2011 **Ullah, I.I.T.** *r.catchment* - A GRASS GIS module that creates a raster buffer of specified area around vector points using cost distances. Retrieval from: [GRASS Addons Repository](http://svn.osgeo.org/grass/grass-addons/grass7/raster/r.catchment/), svn.osgeo.org/grass/grass-addons/grass7/raster/r.catchment/

Reports and Non-reviewed Publications

- 2015 Banning, E.B., Gibbs, K., **Ullah I.I.**, Hitchings, P., Abu Jayyab, K., Edwards, S., and Rhodes, S. *Archaeological Excavations in Wadi Quseiba and Wadi al-Bîr, northern Jordan*. *Antiquity Project Gallery*. 344. <http://antiquity.ac.uk/projgall/508>
- 2014 Banning, E.B., Abu Jayyab, K., Elendari, R., Gibbs, K., Hitchings, P., Hosseinmardi, G., Jablonkay, D., Al Jarrah, H., Letham, B., Razzaz, S., Rhodes, S., **Ullah, I.I.T.**, and Velgakis, J., and Weston, R. *Archaeological excavations in Wadi Quseiba and Wadi al-Bîr, northern Jordan, 2014*. Report on file with the Department of Antiquities of Jordan, Amman.
- 2013 Banning, E.B., Hitchings, P., Abu Jayyab, Elendari, R., K. Gibbs, K., Jablonkay, D., Al Jarrah, H., Letham, B., Razzaz, S., **Ullah, I.I.T.**, and Weston, R. *Archaeological survey in Wadi Qusayba and the Mandah Plateau, Irbid Region, Jordan, 2013*. Report on file with the Department of Antiquities of Jordan, Amman.
- 2012 **Ullah, I.I.T.** *Chapter Iib - Neixon 2011, Artifact density studies*, in: Fábregas Valcarce, R., Bonilla Rodríguez, A. (Eds.), Boiro: 5000 Anos De Cambio Climático E Explotación Do Medio No Marco De Arousa Norte Sondaxes Arqueolóxicas. E Labores De Restauo No Complexo Dos Castros Do Neixón (The Concello De Boiro and Centro Arqueolóxico Do Barbanza), Memoria Técnica. The Concello de Boiro and Centro Arqueolóxico do Barbanza.
- 2008 **Ullah, I.I.T.**, Schuldenrien, J., and Smith, M. *Preliminary report of the 2008 season of the Wadi Hasa Ancient Pastoralism Project*. Report on file with the Department of Antiquities of Jordan, Amman.

Reviews

- 2014 **Ullah, I.I.T.** Review of: *Mediterranean Archaeological Landscapes: Current Issues*. *Geoarchaeology*. 29(2), March/April, 2014.
- 2007 **Ullah, I.I.T.** Review of: *Human Ecology in the Wadi Al-Hasa: Land Use and Abandonment through the Holocene*. *American Anthropologist*. 109(1):216.
- 2002 Gibbs, K., Kadowaki, S., and **Ullah, I.I.T.** *Domesticating Space: Notes on the Toronto Conference*. *Neo-Lithics*. 1/02:21-22.

Works Submitted

Barton, C.M., **Ullah, I.I.T.**, Bergin, S.M., Sarjoughian, H.S., Mayer, G.R., Bernabeu Auban, J.E., Heimsath, A.M., Acevedo, M.F., Riel-Salvatore, J.G., and Arrowsmith, J.R. *Experimental Socioecology: Integrative Science for Anthropocene Landscape Dynamics. Anthropocene*. Submitted, 09/01/2015.

Works in Progress

Ullah, I.I.T., Chang C., and Tourtellette, P. *Landscapes of visibility and flow: Kurgans and settlements in Talgar, Kazakhstan*. With C. Chang. Intended for Antiquity.

Barton L. and **Ullah, I.I.T.** *A dynamic behavioral ecology model of early domestication processes*. Intended for Journal of Anthropological Archaeology.

Ullah, I.I.T. and Arikan, B. *Computer-based simulation of surface-processes, and digital reconstruction of paleoenvironment during the Early Bronze Age-I at Arslantepe–Malatya, Eastern Turkey*. Intended for Geoarchaeology.

TEACHING EXPERIENCE

University Courses

2013–2014 academic year. University of Pittsburgh, Pittsburgh, PA.

“Complex Adaptive Systems & Computational Modeling.” Graduate seminar.

2012–2014 academic year. University of Notre Dame, Notre Dame, IN.

“Sustainability: Past and present.” Upper division cross-listed elective course.

“Life on the move: Pastoral lifeways in archaeological and ethnographic contexts.” Upper-division elective seminar course.

“Fundamentals of Archaeology.” Lower-division core-curriculum course.

“Anthropology: Humans 360.” Lower-division introductory course.

2011 Summer session. Arizona State University, Tempe, AZ.

“Castro de Néixon International Field School.” Summer field-school, core-curriculum course.

2010 & 2011, Fall semesters. Mesa Community College, Mesa, AZ.

“Buried Cities and Lost Tribes – Old World.” Lower-division introductory course.

RESEARCH

Major Research Projects

Mediterranean Landscape Dynamics Project

Position: Senior Researcher and Co-director of Field Work and Modeling Research . *Host Institution:* Arizona State University. *Principle Investigator:* C.M. Barton. *Field work locations:* Jordan, Spain, Italy. *Objective:* Interdisciplinary project investigating early coupled human-natural systems in the Mediterranean, combining field survey with computational modeling. *Period of affiliation:* 2005–Present.

Wadi Ziqlab and Wadi Quseiba Projects

Position: Senior Researcher and Co-director of Field Work. *Host Institution:* University of Toronto. *Principle Investigator:* E.B. Banning. *Field work location:* Wadi Ziqlab and Wadi Quseiba, Jordan. *Objectives:* Investigation of Neolithic communities and land-use through geoarchaeological survey and excavations at project areas in northern Jordan. *Period of affiliation:* 2004–Present.

Socio-ecological Agent-based Modeling of the Early Bronze Age I of Arslantepe

Position: Senior Researcher and Co-director of Modeling Research. *Host Institution:* Istanbul Technical University. *Principle Investigator:* Bülent Arıkan. *Field work Location:* Malatya region, Turkey. *Objective:* Interdisciplinary project investigating the influence of climate change on Bronze Age peoples in the upper Euphrates Basin. *Period of affiliation:* 2013–Present .

Bova Marina Archaeological Project

Position: Co-Director of the San Pasquale Historic Houses Survey. *Host Institution:* University of Notre Dame, Cambridge University. *Principle Investigators:* Meredith Chesson and John Robb. *Field work Location:* Bova Marina, Italy. *Objectives:* Deep-time understanding of human land-use in the project region. *Period of affiliation:* 2015–Present.

Kazakh-American Talgar Archaeology Project

Position: Researcher. *Host Institution:* Sweet Briar College. *Principle Investigator:* Claudia Chang. *Field work Location:* Talgar, Kazakhstan. *Objective:* Geoarchaeological investigations of Bronze and Iron Age landuse and human-environment co-evolution. *Period of affiliation:* 2011–Present .

Wadi Hasa Ancient Pastoralism Project

Position: Project Director. *Host Institution:* ASU, SHESC. *Field work location:* Wadi al-Hasa, Jordan. *Objective:* Survey for Neolithic pastoral sites in the desert margins. *Period of affiliation:* 2008–2009.

CONFERENCE PRESENTATIONS

Symposia Organized

- 2012 “Socio-natural systems in pastoral and agro-pastoral societies: Archaeological investigations of pastoral landscapes.” 77th annual meeting of the Society of American Archaeology in Memphis, TN. Co-organizer: Claudia C. Chang.

Invited Papers

- n.d. **Ullah, I.I.T.**, *Traces of complexity: connecting model output with archaeological reality*. In preparation for the symposium: “Human-Environmental Interactions in the Mediterranean Basin.” 81st Annual Meeting of the Society for American Archaeology, Orlando. FL. April 6–10, 2016.
- 2015 **Ullah, I.I.T.**, and Barton, C.M., *Complexity in space and time: spatio-temporal variability and scale in simulations of social-ecological systems*. Symposium: “Simulating Social Complexity to Understand the Archaeological Past.” 80th Annual Meeting of the Society for American Archaeology, San Francisco. CA. April 15–19, 2015.
- 2014 **Ullah I.I.** *Computer-based simulation of surface-processes, and digital reconstruction of paleoenvironment during the Early Bronze Age-I at Arslantepe–*

- Malatya, Eastern Turkey. Symposium: “*Environmental Change: Data, Processes, and Integrated Modeling.*” 20th Annual Meeting of the European Archaeological Association, Istanbul, Turkey. September 10–14, 2014.
- 2014 **Ullah I.I.** *From a world of compasses, paper, and pencils to the digital era: how to integrate “pre-GPS” survey data into a modern research paradigm.* Symposium “*Paleolithic Paradigms: Papers in Honor of Geoffrey Clark.*” 79th Annual Meeting of the Society for American Archaeology, Austin, TX. April 23–27, 2014.
- 2014 Banning, E.B., and **Ullah I.I.** *In Small Things Miscounted: Problems, Solutions and Opportunities of Scale in Microrefuse Analysis.* Symposium: “*Multi-scalar Approaches to Archaeological Interpretation.*” 79th Annual Meeting of the Society for American Archaeology, Austin, TX. April 23–27, 2014.
- 2014 **Ullah I.I.**, and Barton, C.M. *Mediterranean Landscape Dynamics Project II.* Symposium: “*DDIG Lightning Talks.*” Digital Data Interest Group business meeting. 79th Annual Meeting of the Society for American Archaeology, Austin, TX. April 23–27, 2014.
- 2013 **Ullah, I.I.T.** and Barton, C.M., *Simulating “collapse”: A computational modeling approach to understanding adaptive reorganization in low-level socio-natural systems.* Symposium: “*New Directions in Modeling Dynamics in Coupled Social-Natural Systems.*” 78th annual meeting of the Society of American Archaeology, Honolulu, HI.
- 2012 **Ullah, I.I.T.**, *Simulating the long-term effects of agropastoral landuse decisions: a computational modeling approach to the Prepottery/Pottery Neolithic transition in northern Jordan.* Symposium: “*Socio-natural systems in pastoral and agro-pastoral societies: Archaeological investigations of pastoral landscapes.*” 77th annual meeting of the Society of American Archaeology, Memphis, TN.
- 2012 Bergin, S., **Ullah, I.I.T.**, Barton, C.M., and Gravel-Miguel, C., *Human-Environment Interactions in a Changing Environment: A Computational Model of Agropastoral Practices and Landscapes in Neolithic Spain.* Symposium: “*Socio-natural systems in pastoral and agro-pastoral societies: Archaeological investigations of pastoral landscapes.*” 77th annual meeting of the Society of American Archaeology, Memphis, TN.
- 2011 **Ullah, I.I.T.**, Barton, C.M., Bergin, S., and A. Miller. *Simpler is better: lessons from modeling coupled human and natural systems in the Mediterranean Landscape Dynamics Project.* Symposium “*Process and Change in Prehistoric Socio-Natural Systems.*” 76th annual meeting of the Society of American Archaeology, Sacramento, CA.
- 2011 Bergin, S., **Ullah, I.I.T.**, Arikian, B., Barton, C.M., Sarjoughian, H., and G. Mayer. *Simulating Neolithic Landscape Dynamics: A Coupled ABM-GIS Model of Agro-Pastoral Systems in Eastern Spain.* Symposium: “*Process and Change in Prehistoric Socio-Natural Systems.*” 76th annual meeting of the Society of American Archaeology, Sacramento, CA.
- 2010 **Ullah, I.I.T.** *A GIS method for assessing the zone of human-environmental impact around archaeological sites: a test case from the Late Neolithic of Wadi Ziqlâb,*

- Jordan. 2010 Summer Assembly of the University Consortium for Geographic Information Science. Hilton Head Island, SC.
- 2009 **Ullah I.I.** *Particles from the Past: A Diachronic Study of the Spatial Patterning of Microrefuse from Room Floors at Late Neolithic Tabaqat al-Bûma, Northern Jordan.* Household Archaeology in the Middle East and Beyond: Theory, Method and Practice Conference. Feb 19-21, Salt Lake City.
- 2009 **Ullah, I.I.T.,** Mayer, G.R., Barton, C.M., Sarjougian, H.S. *Ancient Mediterranean landscape dynamics: Hybrid agent and geospatial models as a new approach to socioecological simulation.* Symposium: “Parallel Worlds: Interdisciplinary Agent-Based Models of Socioecological Processes and Complexity.” 73rd Annual Meeting of the Society for American Archaeology, Vancouver, BC.

Contributed Papers

- 2015 Gibbs, K., Banning, E.B., **Ullah I.I.,** Hitchings, P., and Abu Jayyab, K. *Late Neolithic Excavations in Wadi Qusayba, Northern Jordan.* 2015 ASOR Annual Meeting, San Diego, CA.
- 2010 Barton, C. M., **Ullah, I.I.T.,** Mayer, G., Sarjoughian, H., Bergin, S., Miller, A., and H. Mitasova. *Coupled Models for Coupled Systems: Land-Use and Landscape Dynamics in the Mediterranean.* 2010 Annual Meeting of the Association of American Geographers. Washington, D.C.
- 2010 Bergin, S., **Ullah, I.I.T.,** Barton, C.M., Mayer, G., and H. Sarjoughian. *Coupled ABM-GIS Modeling of Agro-Pastoral Systems in Eastern Spain.* 75th annual meeting of the Society of American Archaeology, St. Louis, MO.
- 2010 **Ullah, I.I.T.** *Assessing the accuracy of microrefuse sampling techniques.* 75th annual meeting of the Society of American Archaeology, St. Louis, MO.
- 2009 Bergin, S., **Ullah, I.I.T.,** and G. Mayer. *A Coupled ABM-GIS model of small-scale farming.* North American Association for Computational Social and Organizational Sciences Meeting, Tempe, AZ.
- 2009 **Ullah I.I.** *Ancient Pastoralism and Landscape Change in South Central Jordan.* 74th Annual Meeting of the Society for American Archaeology, Atlanta, GA.
- 2007 **Ullah, I.I.T.,** *Microarchaeology and the Use of Space at the Late Neolithic Farmstead of Tabaqat al-Bûma.* 10th International Conference on the History and Archaeology of Jordan, The George Washington University, Washington, DC.
- 2007 **Ullah I.I.,** and Barton, C.M., *Alternative Futures of the Past: Modeling Neolithic Landuse and Its Consequences in the Ancient Mediterranean.* 72nd Annual Meeting of the Society for American Archaeology, Austin, TX.
- 2006 DiMaggio, E.N., Arrowsmith, J.R., Barton, C.M., Sarjoughian, H.S., Fall, P., Falconer, S.E., and **Ullah, I.I.T.,** *Geomorphic Mapping and Paleoterrain Generation for use in Modeling Holocene (8,000 – 1,500 yr) Agropastoral Landuse and Landscape Interactions in Southeast Spain.* 2006 American Geophysical Union annual meeting, San Francisco, CA.
- 2006 Barton, C.M. and **Ullah, I.I.T.,** *Modeling Impacts of Landuse Practices on Mediterranean Landscapes.* 2006 Archaeological Sciences of the Americas Symposium. University of Arizona, Tucson, AZ.

- 2006 **Ullah, I.I.T.**, *GIS and Pastoralists in Beidha, Southern Jordan: Predictive Modeling of Campsite Location*. 2006 Annual Conference of WECSOR/ASOR Pacific Southwest Region, Claremont Graduate University, Claremont, CA.

SERVICE

Professional Workshops

Open Source Geospatial Tools for Anthropologists. Invited workshop to be given at University of Notre Dame, Department of Anthropology, December 1–4, 2015. To be co-taught with M. Sisk of UND Library.

Paleolandscape Reconstruction and Ancient Human Landuse: A GIS Workshop. (2 sessions, 8 hours each). University of Toronto Archaeology Center. Fall, 2009.

GRASS GIS for Anthropologists. SHESC Graduate Workshop Series. Fall term, 2006. (2 sessions, 2 hours each). Arizona State University. Fall, 2006.

Departmental Service

Mentor for incoming graduate students. *School of Human Evolution and Social Change Association of Anthropology Graduate Students*, Arizona State University, Tempe, Arizona. (2008-2012). Member of executive council. *Anthropology Graduate Student Union*, University of Toronto, Toronto, ON. (2002-2003 Academic Year)

Editorial

Review Editor, *Frontiers in Digital Archaeology*. 2015-current.

Peer Reviewer

Reviewer: *Journal of Archaeological Research*; *Advances in Archaeological Practice*; *Journal of Archaeological Sciences*; *Computation*; *Southeast Archaeological Review*

Public Lectures

Simulating the consequences of early farming strategies: a computational modeling approach to understanding long-term socio-ecological dynamics in low-level agropastoral systems. University of Pittsburgh, Department of Anthropology colloquium series. Fall term, 2013.

The Neolithic period in Jordan: Daily life in early farming villages. Mesa Community College Cultural Science brown bag series. Spring term, 2011.

OTHER PROFESSIONAL EXPERIENCE

Teaching Positions

2010–2011 Adjunct faculty, Cultural Sciences Department, Mesa Community College, Mesa, AZ.

Professional Archaeological Positions

2001–2005 Numerous Cultural Resource Management projects in California, Nevada, and Utah. Employers: Far-Western Anthropological Research Group, Inc., and Pacific Legacy, Inc. Further details available upon request.

MEDIA COVERAGE

Summary News Articles

- 2015 *“Analyzing the Neolithic Revolution.”* Archaeology Magazine, Online. July 24, 2015.
- 2015 *“New Research Reveals Clues of Neolithic Revolution.”* New Historian. July 22, 2015.
- 2015 *“Archaeologists use new methods to explore move from hunting, gathering to farming.”* Phys.org. July 21, 2015
- 2010 *“Archaeology Could Benefit From Computer Modeling.”* Science 2.0. May 10, 2010.

Editorials

- 2010 *“Living in the Past and Looking Toward the Future. Archaeologists develop models to explain agricultural history, future.”* Chris Gorski, Inside Science, July 29, 2010.