

Curriculum Vitae

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EDUCATION:

Ph.D. Student, Archaeology, 2005-Current
Arizona State University School of Human Evolution and Social Change

M.A. Anthropology, University of Toronto, 2003.
Thesis: *Pastoralists and GIS in Beidha, Southern Jordan: An exploration in methods and applications for predictive modeling*

B.S. Anthropology with honors, University of California, Davis, 2001
Honors Thesis: *Near Eastern nomadic pastoralist site location: A predictive model*

PUBLICATIONS/RESEARCH:

Publications

Ullah, I.I.

2008 *Goats and Green Pastures: The Pastoral Footprint of Late Neolithic Wadi Ziqlâb*. Paper submitted to **American Antiquity**. Currently under revision for resubmission.

2008 *Within-room spatial analysis of activity areas at Late Neolithic Tabaqat al-Bûma, Wadi Ziqlab, Al Koura, Jordan*. **Studies in the History and Archaeology of Jordan**, X. In Press.

2007 Review of: *Human Ecology in the Wadi Al-Hasa: Land Use and Abandonment through the Holocene*. **American Anthropologist** 109(1):216

2007 *Preliminary Geomorphologic Reconnaissance in Wadi Ziqlab, Northern Jordan*. **MEDLAND WORKING PAPER No. 3**. Mediterranean Landscape Dynamics Project, ASU, SHESC

Ullah, I.I.; C.M. Barton; and H. Mitasova

2006 *Process-based modeling of potential erosion and deposition and landscape evolution: implementing USPED in GRASS GIS*. **MEDLAND WORKING PAPER No. 2**. Mediterranean Landscape Dynamics Project, ASU, SHESC

Gibbs, K.; S. Kadowaki; and I. I. Ullah

2002 *Domesticating Space: Notes on the Toronto Conference*. **Neo-Lithics** 02:21-22

Ongoing Research:

Ullah I.I.

2007-current *The Dimensions of Pastoral Landuse*. Paper in progress. Intended for publication in **American Antiquity**.

2006-current *Process-based simulation of erosion and deposition in a GIS: A laboratory for modeling human impacts on a landscape.* Paper in progress. Intended for publication in **Geoarchaeology**.

2004-current *Beidha revisited: Initial observations of 25 years of site formation processes at pastoral encampments.* Paper in Progress. Intended for **NEA**.

Ullah, I.I., and E.B. Banning

2003-current *Fallen Between the Cracks: Micro-refuse and the use of space at the Neolithic farmstead of Tabaqat Al-Buma, Northern Jordan.* Final draft completed pending second author comments. Intended for submission to **JAMT**.

Ullah, I.I., and C.M. Barton

2007-current *Bridging the Gap Between the Archaeological Record and Explanation: a Modeling Approach to Socioecological Dynamics.* Paper in preparation for submission to **JAS**.

Ullah, I.I., G.R. Mayer, C.M. Barton, H.S. Sarjoughian

2008-current *Ancient Mediterranean landscape dynamics: hybrid agent and geospatial models as a new approach to socioecological simulation.* Intended for presentation at the 2008 SAA annual meeting and eventual publication.

Previous Research:

Ullah, I.I.

2003a *Human-animal interactions and the transition from hunting to herding.* Prepared for University of Toronto, Department of Anthropology, Toronto, ON

2003b *Individuals and Action: Agency theory and its uses in archaeology.* Prepared for University of Toronto, Department of Anthropology, Toronto, ON

2003c *Pastoralists and GIS in Beidha, Southern Jordan: An exploration in methods and applications for predictive modeling.* Masters Thesis. On file in the Theses and Dissertations Collection at the University of Toronto, Department of Anthropology, Toronto, ON

2002 *The state of microarchaeology today: With special implications for household archaeology and intra-site spatial analysis.* Prepared for University of Toronto, Department of Anthropology, Toronto, ON

2001a *Facial Reconstruction Project.* Independent study. University of California, Davis, Department of Anthropology, Davis, CA

2001b *Near Eastern nomadic pastoralist site location: A predictive model.* Honors Thesis. University of California, Davis, Department of Anthropology, Davis, CA

LECTURES/PRESENTATIONS

2008 Ancient Mediterranean landscape dynamics: Hybrid agent and geospatial models as a new approach to socioecological simulation. **Ullah, I.I., Mayer, G.R., Barton, C.M., Sarjougian, H.S.** Invited paper presented in the symposium "Parallel Worlds: Interdisciplinary Agent-Based Models of Socioecological Processes and Complexity" at the 73rd Annual Meeting of the Society for American Archaeology, Vancouver, BC.

- 2008 “GIS applications for measuring and simulating human impacts on the environment.” Ullah, I.I. Lecture given to the Human Impacts on the Environment class at Arizona State University, Tempe, AZ
- 2007 “Microarchaeology and the Use of Space at the Late Neolithic Farmstead of Tabaqat al-Bûma.” Ullah, I.I. Paper presented at the 10th International Conference on the History and Archaeology of Jordan, The George Washington University, Washington, DC
- 2007 “Alternative Futures of the Past: Modeling Neolithic Landuse and Its Consequences in the Ancient Mediterranean.” Ullah I.I. and Barton, C.M. Contributed paper presented at the 2007 Annual Meeting of the Society for American Archaeology, Austin, TX
- 2006 “Geomorphic Mapping and Paleoterrain Generation for use in Modeling Holocene (8,000 - 1,500 yr) Agropastoral Landuse and Landscape Interactions in Southeast Spain” DiMaggio, E.N.; Arrowsmith, J.R.; Barton, C.M.; Sarjoughian, H.S.; Fall, P.; Falconer, S.E.; Ullah, I.I. Poster presented at the 2006 American Geophysical Union annual meeting, San Francisco, CA.
- 2006 “Modeling Impacts of Landuse Practices on Mediterranean Landscapes.” Barton, C.M. and Ullah, I.I. Simulation presented at the 2006 Archaeological Sciences of the Americas Symposium. University of Arizona, Tucson, AZ
- 2006 “Process-based simulation of erosion and deposition in a GIS: A laboratory for modeling human impacts on a landscape.” Ullah, I.I. Presentation given at the November MEDLAND team meeting, ASU SHESC, Tempe, AZ.
- 2006 “GIS and Pastoralists in Beidha, Southern Jordan: Predictive Modeling of Campsite Location.” Ullah, I.I. Presentation given at the 2006 Annual Conference of WECSOR/ASOR Pacific Southwest Region, Claremont Graduate University, Claremont, CA.
- 2006 “R.USPED and Erosion Simulation in GRASS GIS.” Ullah, I.I. Presentation given at the March MEDLAND team meeting, ASU SHESC, Tempe, AZ.
- 2005 “Digital Elevation Models and Erosion Potential Mapping.” Ullah, I.I. Presentation given at the November MEDLAND team meeting. ASU SHESC, TEMPE, AZ.
- 2004 “The Nomadic Bedouin.” Ullah, I.I. Lecture given to the Introduction to Anthropology class at Foothill College, Los Altos, CA.

TEACHING:

- 2006 **Instructor**, SHESC Fall Semester Graduate Workshop Series, ASU, SHESC, Tempe, AZ.
Course: GRASS GIS for Anthropologists, A two part, 4 hour mini-class for graduate students
- 2002-2003 **Teaching Assistant**, University of Toronto, Department of Anthropology. Toronto, ON
Course: Introduction to Anthropology
- 2000-2001 **Undergraduate Teaching Assistant**, University of California, Davis, Department of Anthropology. Davis, CA
Course: Human Osteology; Laboratory Section

PROFESSIONAL EXPERIENCE:

- 2005-Current **Graduate Research Assistant**, Mediterranean Landscape Dynamics Project, ASU SHESC
Medland Laboratory, ASU SHESC

- Working with computer scientists to develop multi-agent simulations of early farming economies
- Managing, maintaining and manipulating SRTM, ASTER, aerial photographic, Landsat, SPOT, and Corona data for project areas in Eastern Spain and Northern Jordan
- Programming dynamic surface process models in GRASS GIS for the project areas using USPED soil loss equations, soil production functions, and hydrographic models
- Programming dynamic models of pastoral and horticultural landuse in GRASS GIS using ethnoarchaeological and ecological data and incorporating vegetation regrowth
- Working with the Decision Theater to be able to use models developed for the Medland Project in the DT
- Researching geomorphology, soils, and geomorphologic processes in the project areas
- Developing fully query-able point referenced vector layers of archaeological survey data in the project areas.
- Installing and maintaining Linux GIS workstations.

2004&2006

Archaeologist, Wadi Ziqlab Project, University of Toronto, Dept. of Anthropology
Late Neolithic Al Basîtan, Site 135, Wadi Ziqlab, Jordan

- Worked with other archaeologists to determine the placement of archaeological units on the site.
- In charge of excavations for three 3x3 meter archaeological units over two field seasons. Excavated and directed workmen to excavate and screen soil from these units.
- Mapped architecture and occupational surfaces using a combination of xyz coordinates from an EDM and triangulation.
- Drew baulk sections for the archaeological units
- Set up and operated an EDM to take daily levels and xyz coordinates for artifacts and architecture.
- Washed and analyzed pottery and lithic material from the site in the field lab.
- Kept detailed notes and archives on daily excavations and analyses.

2003-2005

Archaeological Field Technician, Far Western Anthropological Research Group, Inc.
Wildcat Survey Project, Dugway Proving Grounds, Dugway AFB, UT

- Conducted extensive surface surveys for prehistoric sites along the margin of ancient Lake Bonneville
- Lead technician in charge of photography and GPS recording
- Mapped and recorded archaic and middle and late period sites
- ATV training, EOD training

Fireline Project, Riverside and San Diego Counties, CA

- Re-discovered prerecorded bedrock mortar and rock art sites affected by recent wildfires
- Re-recorded sites with GPS and paper mapping

Ham-D Project, Las Vegas, NV

- Excavated several desert rock features.
- Recorded sites with GPS, photography, EDM total station, and pencil and paper mapping.

North Mono Lake Pinyon Survey, Mono Lake, CA

- Surveyed the pinyon pine zone on the northern margin of Mono Lake for various archaeological remains.
- Recorded sites with GPS, photography, and mapping.

Gray's Crossing Project, Truckee, CA

- Excavated Martis Creek period sites at the Martis basalt quarry and in a lithics production area near the quarry.
- Screened soil, recorded artifacts, drew maps and sections of archaeological units, took flotation samples

- Recorded surface scatter of basalt bifaces at the quarry with GPS.
- Searles Lake Survey, China Lake Navy Base, CA*
- Surveyed over desert terrain for Paleo-Indian sites around the ancient lake margins.
 - Recorded sites with GPS, photography, and mapping.
- Los Osos Project, Los Osos, CA*
- Excavated sites buried under the pavement of neighborhood streets.
 - Screened soil, recorded artifacts, drew maps and sections of archaeological units, took flotation samples, directed traffic, engaged the public and distributed information about the project, etc
- Various short projects*
- Excavated several salvage and emergency sites throughout Northern California
 - Screened soil, recorded artifacts, drew maps and sections of archaeological units, etc.

2003-2004

Archaeological Field Technician, Pacific Legacy Inc.

Napa Floodplains project, Saint Helena, CA

- Excavated test probes and units at a prehistoric site
- Screened soil, collected artifacts, auger tested broad areas, etc.

North Lake Project, Clear Lake, CA

- Excavated test units at a prehistoric site
- Screened soil, collected artifacts, etc.

Elk Hills Project, Taft, CA

- Excavated test units at a mixed prehistoric and historic site
- Screened soil, collected artifacts, etc.

2002-2003

Archaeological Lab Supervisor, Wadi Ziqlab Lab, University of Toronto,

- Oversaw student volunteers and directed and demonstrated labwork for them
- Responsible for analysis of microrefuse, lithics, and pottery, computer graphics, database management, and GIS.

2001-2002

Archaeological Technician, Far Western Anthropological Research Group, Inc.

- Excavated at many prehistoric and mixed prehistoric/historic sites in Northern California, the Sierra Nevada, the Central Valley, and the Central Coast
- Excavated test units and features, drew profiles and top plans, wet and dry screened soil, collected and catalogued artifacts and soil samples, set up grid lines, took photos, etc.
- Identified human and non-human skeletal remains
- Archaeological survey in Tahoe Nevada State Park and the Sacramento area
- Used GPS and orienteering equipment to plot in sites on topographic maps
- Recorded, photographed, and mapped surface remains of historic and prehistoric sites
- Washed, sorted, and catalogued artifacts in the lab
- Conducted flotation analysis, including sorting and weighing seeds and charcoal
- Entered, processed, and created final presentation charts of data for flotation analysis

2001-2002

Archaeological Field Technician, Pacific Legacy, Inc.

Poison Lake Project, Susanville, CA

- Excavated test units at three prehistoric sites
- Screened soil, collected artifacts, drew soil profiles, etc.

Dye Creek Project, Red Bluff, CA

- Excavated test units and features at a prehistoric site
- Screened soil, collected artifacts, drew soil profiles and top plans, took photos, etc
- Identified human and non-human skeletal remains

RELATED EXPERIENCE:

- 2007 **Conferences and Professional Meetings attended**
- 10th International Conference on the History and Archaeology of Jordan. The George Washington University, Washington, DC
 - 2007 Society for American Archaeology Annual Meeting, Austin, TX
- 2006 **Conferences and Professional Meetings attended**
- 2006 Archaeological Sciences of the Americas Symposium. University of Arizona, Tucson, AZ
 - 2006 Annual Conference of WECSOR/ASOR Pacific Southwest Region. Claremont Colleges, Claremont, CA
- 2004 **Conferences and Professional Meetings attended**
- 9th International Conference on the History and Archaeology of Jordan, 2004, Petra, Jordan
 - At the Fringe of Society, Pastoralists and Hunter Gatherers in the Levant, 2004 Conference, Jerusalem, Israel
- 2002 **Conferences and Professional Meetings attended**
- American Schools of Oriental Research, 2002 Annual Meeting, Toronto, ON
 - Domesticating Space, Landscapes and Site Structure in the Prehistoric Near East, 2002 Conference, University of Toronto, Toronto, ON
- 1999 **Yolo 187 site, directed group study**
- Learned the basics of flotation analysis and flotation laboratory methods
 - Learned to identify various small sized bones, seeds, charcoal, and lithic debitage
 - Conducted flotation analysis of soil samples from a protohistoric site in Yolo County
- 1999 **Wadi Fidan Project, University of California, San Diego Archaeology Field School**
- Three and half month field school in southern Jordan
 - Excavated units at a Pre-pottery Neolithic Village
 - Ran the field osteological lab and identified and recorded skeletal human remains and burials as well as non-human skeletal remains
 - Contributed to data on the earliest examples of metallurgy in the world

AFFILIATIONS:

American Schools of Oriental Research
Society for American Archaeology

AWARDS:

2005-2008 Arizona State University Tuition Waiver
2002-2003 University of Toronto Fellowship recipient

COMPUTER/TECHNICAL SKILLS:

- Linux/Unix (RedHat Fedora, Mepis Debian/Ubuntu), Mac O/S (6.x-10.x), Windows (3.x, 95, 98, 2000, NT, XP), DOS
- Illustrator, PageMaker, PhotoShop, GIMP, Multispec, Image J, other image/graphics software
- GRASS 6.x, QGIS 8.x, Arc GIS 8.x/9.x, ArcView, Arc Info, MapMaker, other GIS, CAD, and GPS software
- Unix shell scripting, Python scripting, especially for GRASS GIS.
- Bonn Archaeological Software Package, TQFA, Gnumeric, SPSS, R, Filemaker Pro, 4th dimension, SQL, Matlab, EndNote, various other database/spreadsheet/statistical software

- Multispec, Hypercube, Image J, GIMP, ImageMagick, Adobe Photoshop, other image manipulation software
- Microsoft Office Suite, Open Office Suite, Lotus Notes Suite, Quark Express, Inkscape, Adobe Illustrator, Scribus, LaTeX/BibTeX, Kompozer, Desktop Publishing, Internet, E-mail
- Hardware (scanners, printers, digital camera, external hard drives, CDR/DVDR)
- GPS, Theodolite, EDM, other field surveying tools