

Maria E. Raviele
Curriculum Vitae
2013

Current Position:

Institute of Museum and Library Services, Office of Planning, Research, and Evaluation, Evaluation Officer
Michigan State University, Department of Anthropology, Research Associate

Previous Positions:

Smithsonian Institution, June 2011-September 2013
Social Science Analyst, Office of Policy and Analysis

Indiana University, August 2010-June 2011
Postdoctoral Research Fellow, Glenn A. Black Laboratory of Archaeology
Research Associate, Department of Anthropology

Alma College, August 2009-May 2010
Visiting Instructor, Department of Sociology and Anthropology

Education:

PhD. Anthropology, Michigan State University, East Lansing, MI. 2010. Dissertation Title: *Assessing Carbonized Archaeological Cooking Residues: Evaluation of Maize Phytolith Taphonomy and Density through Experimental Residue Analysis.*
M.A. Anthropology, Michigan State University, East Lansing, MI. 2007.
B.A. Anthropology, University of Connecticut, Storrs, CT Graduate Cum Laude. 2002.

Areas of Expertise:

Archaeology of Northeastern North America; Environmental archaeology; Cultural heritage and preservation planning; Prehistoric plant use and foodways; Hunter-gatherers; Low-level food production

Extramural Grants:

Research Grants:

National Science Foundation Dissertation Improvement Grant, 2009. Assessing Carbonized Archaeological Cooking Residues: Evaluation of Maize Phytolith Taphonomy and Density through Experimental Residue Analysis \$13,212

Wenner-Gren Dissertation Fieldwork Grant, 2009. Evaluation Of Maize Phytolith Taphonomy and Density Through Experimental & Archaeological Residue Analysis \$14, 160

Programmatic Grants:

National Geographic: The Genographic Legacy Fund, 2008. Building a Bilingual Legacy: Revitalizing Anishinaabemowin (Nokomis Learning Center) \$25,000

Target Corporation Store Grant, 2008. Children's Reading Program (Nokomis Learning Center) \$2500

Ingham County Arts Grant, 2008. Children's Reading Program (Nokomis Learning Center) \$2500

Awards and Scholarships:

Dissertation Completion Fellowship, Michigan State University, College of Social Science. Spring 2010. Paid stipend to complete dissertation writing.

First Place Prize Midwest Archaeological Conference Graduate Student Paper Competition. 2009.

Moreau Maxwell Scholar Award, Michigan State University, Department of Anthropology. 2006. Awarded to MSU Department of Anthropology graduate student for a significant contribution to Anthropology.

Third Place Prize CIC American Indian Studies Consortium Graduate Student Conference and Paper Competition. 2004.

University of Connecticut Dean's List 1999, 2000, 2001.

New England Scholar 2000.

National Science Foundation Young Scholar; paid tuition at Center for American Archaeology Field School. 1997.

Publications Submitted/In Progress:

Hoekman-Sites, H. and **M. Raviele** (eds). *Residue Analysis: Current Theory and Modern Applications*. Edited volume under contract by University of Colorado Press.

Publications and Reports:

Peer-Reviewed Publications:

Raviele, M.E. and W.A. Lovis (eds.) (In Press 2014) Introduction to the First Midwest Archaeological Conference, Inc. Sponsored Symposium: Assessing the Timing, Rate, and Adoption Trajectory of Domesticated Use in the Midwest. *In Reassessing the Timing, Rate and Adoption Trajectories of Domesticated Use in the Midwest and Great Lakes*, edited by Maria E. Raviele and William A. Lovis. Special Paper No. 8. *Midcontinental Journal of Archaeology*, Midwest Archaeological Conference, Inc..

Raviele, M.E. Experimental Assessment of Maize Phytolith and Starch Taphonomy in Carbonized Cooking Residues. *Journal of Archaeological Sciences* 38:2708-2713. 2011.

Lovis, W.A., G.R. Urquhart, **M.E. Raviele**, and J.P. Hart. Hardwood ash nixtamalization leads to false negatives for the presence of maize by depleting bulk $\delta^{13}\text{C}$ in carbonized residues. *Journal of Archaeological Sciences*, 38:2726-2730. 2011.

Raviele, M.E. Subsistence Transformation and Thermal Pretreatment of Lithic Raw Materials. *Lithic Technology* 32(1):99-114, (special volume guest edited by Harry Lerner). 2007.

Museum, Organizational, and Visitor Study Reports:

Rare Beauty: An Evaluation of the Orchids of Latin America Exhibit, Smithsonian Institution, Office of Policy and Analysis, Washington, DC. June 2013.

Ancient Relics Brought to Life: Visitors Respond to Pure Land: Inside the Mogao Grottoes at Dunhuang, Smithsonian Institution, Office of Policy and Analysis, Washington, DC. April 2013.

Formative Orchid Exhibition Study Results, Smithsonian Institution, Office of Policy and Analysis, Washington, DC. November 2012.

Evaluation of the National Museum of African Art's 2012 Community Day, Smithsonian Institution, Office of Policy and Analysis, Washington, DC. October 2012.

Understanding Diversity within the National Museum of Natural History: NMNH Community Perceptions of Current Workplace Diversity, Smithsonian Institution, Office of Policy and Analysis, Washington, DC. May 2012.

Gertrude Stein in Portraits: A Pose Is a Pose Is A Pose, A Study of Visitors to Seeing Gertrude Stein: Five Stories at the National Portrait Gallery, Smithsonian Institution, Office of Policy and Analysis, Washington, DC. April 2012.

Seriously Amazing: Aligning the National Portrait Gallery with Smithsonian Branding, Smithsonian Institution, Office of Policy and Analysis, Washington, DC. March 2012.

Digital Reincarnations: A Study of Visitors to Echoes of the Past: The Buddhist Cave Temples of Xiangtangshan at the Sackler Gallery, Smithsonian Institution, Office of Policy and Analysis, Washington, DC. September 2011.

Archaeological Reports:

Raviele, M. *Report of the Michigan State University Field School 2004: Excavations at the Antrim Creek Natural Area.* Report submitted to the Antrim Creek Natural Area Commission. Department of Anthropology, Michigan State University, East Lansing. 2006. (107 pp, figures, references, appendices).

Symposia Organized/Co-Organized:

- What, When, and How?: Assessing the Timing, Rate, and Adoption Trajectory of Domesticated Use in the Midwest (with William Lovis), Midwest Archaeological Conference 1st Annual Sponsored Symposium. 58th Annual Midwest Archaeological Conference, East Lansing, MI. 2012.
- Reflecting on the Role of Women in Archaeology (with Kathleen Sterling), sponsored by Committee on the Status of Women in Archaeology. 77th Annual Society for American Archaeology Conference, Memphis, TN. 2012.
- Residue Analysis 1: The Taphonomy of Archaeological Residues (with H. Hoekman-Sites), sponsored by Society for Archaeological Sciences. 75th Annual Society for American Archaeology Conference, St. Louis, MO. 2010.
- Residue Analysis 2: Current Applications of Residue Analysis to Archaeological Questions (with H. Hoekman-Sites), sponsored by Society for Archaeological Sciences. 75th Annual Society for American Archaeology Conference, St. Louis, MO. 2010.

Museum Exhibits:

“4,000 Years of Indigenous Michigan Horticulture.” Michigan State University Museum, East Lansing. Guest curator in collaboration with Dr. William Lovis, Department of Anthropology, Michigan State University. October 2012.

Outreach Activities and Public Presentations:

- “Evidence for Early Maize in the Saginaw Valley through Ceramic Residue Analysis.” Presentation to the Michigan Archaeological Society, Huron Valley Chapter, March, 2011.
- “New Evidence for the Introduction of Domesticates in the Saginaw Valley through Phytolith and Starch Studies.” Presented to the Michigan Archaeological Society, Saginaw Valley Chapter, February 2010.
- “When Things Go Right: Multiple Methodologies at Sonderbuch Shlaghau, Sonderbuch, Germany.” Presented to the Michigan Archaeological Society, Upper Grand Valley Chapter, September 2008.
- “How I Spent My Summer Vacation: Archaeology in the Swabian Alb of Southwest Germany.” Presented to the Michigan Archaeological Society, Upper Grand Valley chapter, October 2007.
- “Preliminary Thoughts on the Findings of the Michigan State University Field School 2004.” Presented at the Michigan State University Anthropological Brown Bag Series, September 2004.
- “Excavations by the Michigan State University Field School 2004.” Presented at the Michigan State University Anthropology Club, September 2004.
- “Tour of the Antrim Creek Natural Area Archaeological Excavations,” Presented to the Antrim Chapter of the Historical Society of Michigan, July 2004.
- “Functional Variation of Lithics at the Schultz Site, Saginaw County, Michigan.” Presented at the Michigan State University Anthropological Brown Bag Series, 2003.

Papers and Posters Presented at Professional Meetings:

- “Winter, Spring, Summer, or Fall?: Palynological Evidence for Seasonal Mound Construction at Angel Mound A,” poster presented at the 77th Annual Society for American Archaeology Conference, Memphis, TN. 2012.
- M. Raviele, W. Lovis, G. Urquhart, J. Hart** “The Affects of Alkali Processing on Maize Detectability in Carbonized Food Residues,” paper presented at the 76th Annual Society for American Archaeology Conference, Sacramento, CA. 2011.

- “New Evidence for Maize in the Great Lakes,” poster presented at the 56th Annual Midwest Archaeological Conference, Bloomington, IN. 2010.
- “The Implications for Maize Microbotanical Taphonomy via Experimental and Archaeological Residues,” paper presented at the 75th Annual Society for American Archaeology Conference, St. Louis, MO. 2010.
- “Assessment of Maize Phytolith Taphonomy through Experimental and Archaeological Ceramic Residues,” paper presented at the 108th Annual American Anthropological Association Conference, Philadelphia, PA. 2009.
- “Exploring Quantification of Maize Microbotanical Densities through Experimental Residue Analysis,” paper presented at the 55th Annual Midwest Archaeological Conference, Iowa City, IA. 2009.
- “Exploring Quantification of Maize Phytolith Densities through Experimental Residue Analysis,” poster presented at the 74th Annual Society for American Archaeology Conference, Atlanta, GA. 2009.
- “Analysis of Maize Phytolith Taphonomy through Experimental Residue Analysis,” paper presented at the Science and Archaeology Symposium, Ancient Technologies and Archaeological Materials Program, Urbana, IL. 2008.
- Brondo, K., M. Baba, **M. Raviele**, C. LaBond, K. Patch, and I. Adams “Shifting Gears: Rethinking Moral Economy in the American Rustbelt Where ‘Only the Resourceful Survive,’” paper presented at the 67th Annual Society for Applied Anthropology Conference, Tampa, FL. 2007.
- “Investigations at the Nipissing 2 Terrace site, Antrim County, Michigan,” paper presented at the 51st Annual Midwest Archaeological Conference, Dayton, OH. 2005.
- “Subsistence Transformation and Thermal Pretreatment of Lithic Raw Materials,” paper presented at the 70th Annual Society for American Archaeology Conference, Salt Lake City, NV. 2005.
- “Behavioral Variability in Stone Tool Production,” paper presented at the joint Midwest Archaeological and Southeast Archaeological conference, St. Louis, MO. 2004.
- “Behavioral Change in Stone Tool Production,” paper presented at the 5th Annual CIC American Indian Studies Consortium Graduate Student Conference and Competition, Ann Arbor, Michigan. 2004. (Third Place Prize)
- (with J. Carroll) “Stone Tool Making in Ancient Antrim County,” Poster presented at Michigan Archaeology Day. 2004.
- “Functional Variation of Lithics at the Schultz Site, Saginaw County, Michigan,” paper presented at the 49th Annual Midwest Archaeological Conference, Milwaukee, WI. 2003.
- (with M. McCullen) “Plants of the Past,” Poster presented at Michigan Archaeology Day. 2003.
- “The Apple Creek Charnel Structure,” paper presented at the Center for American Archaeology. 1997.

Archaeological Work and Research Experience:

Archaeological Field Work

- Archaeological Monitor, Commonwealth Cultural Resources Group, Jackson, MI. Project: Harrison Road Project. 2009.
- Project Archaeologist and Trench Supervisor (July-August). Neolithic Settlement on the Swabian Alb, Southern Germany, Dr. Lynn Fisher University of Illinois—Springfield PI 2008.
- Project Archaeologist (August-September). Neolithic Settlement on the Swabian Alb, Southern Germany, Dr. Lynn Fisher University of Illinois—Springfield PI 2007.
- Lab and Field Technician Commonwealth Cultural Resources Group, Jackson, MI. Projects: REX East Pipeline Illinois; Enbridge Southern Access Pipeline Wisconsin 2006-2008.
- Teaching Assistant (May-July). ANP 464: Field Methods in Archaeology, Michigan State University, East Lansing, MI. Antrim Creek Natural Area, Antrim County, MI 2004.
- Field Technician (June-August). Mary Anderson Site, East Lansing, Michigan; Michigan State University, East Lansing, MI 2003.
- Intern and Archaeological Consultant Mashantucket Pequot Museum and Research Center, Mashantucket, CT 2000-2001.
- Teaching Assistant (Field School) Lake of Isles Sites, Ledyard, Connecticut; University of Connecticut, Storrs, CT 2001.
- Field School (June-August). Schemitzun and Rodeo Island Sites, Ledyard, Connecticut; University of Connecticut, Storrs, CT 2000.

Field School (July-August). Evie Site, Kampsville, Illinois; Center for American Archaeology (CAA), Kampsville, IL 1997.

Plant Microfossil Work

Willow Island Lock and Dam (46PL66), Parkersburg, WV. Pollen, Phytolith, and Starch Analyst. Contract work for Gray and Pape, Inc. 2011.

Angel Mounds (12VG1, Mound A), Evansville, IN. Pollen Analyst. Pollen identified from soil core to determine local site ecology and seasonality. Collaborators: Dr. G. William Monaghan (Glenn A. Black Laboratory of Archaeology, Indiana University). 2010-2011.

Saginaw River Drainage Prehistoric Subsistence Project, Michigan. Phytolith and Starch Analyst. Work performed for doctoral dissertation project. 2009-2010.

Neolithic Settlement on the Swabian Alb, Blaubeuren, Germany. Phytolith and Starch Analyst. Archaeological project examining upland Neolithic settlement systems on the Swabian Alb. Collaborators and PIs: Drs. Lynn Fisher and Susan Harris (University of Illinois—Springfield), Drs. Corina Knipper and Rainer Schreg (University of Mainz, Germany). 2009.

Miner Lake, Allegan, MI. Pollen analysis performed as part of training under the supervision of Dr. Catherine Yansa (Geography, Michigan State University). 2004.

Internal Grants:

Michigan State University

American Indian Studies Program (Travel): 2005, 2007, 2008, 2010.

Department of Anthropology (Travel): 2008, 2009.

Council of Graduate Students (Travel): 2009.

Graduate School Discretionary Funding (Research): 2007

Teaching (Instructor):

Environmental Change through the Holocene: Human Responses to Changing Landscapes, Anth P-600, Indiana University, Spring 2011.

Introduction to Anthropology (Four Field), SOA 111, Alma College, Winter 2010.

Introduction to Cultural Anthropology, SOA 212, Alma College, Fall 2009 & Winter 2010.

Environmental Anthropology, SOA 311a, Alma College, Fall 2009.

Sociocultural Diversity, ANP 201, Michigan State University, Fall 2008.

Social and Cultural Analysis, ANP 320, Michigan State University, Spring 2008.

Nokomis Learning Center, Okemos, MI, Museum Educator, October 2007- September 2008.

Teaching (Guest Lecturer and/or Panel Discussant):

Guest lecturer on the following topics: Paleoethnobotany; Domestication; Gender; Lithic Analysis; The Late Woodland; The Middle Paleolithic; Significant Archaeological Sites: Star Carr (England); Power and Culture

Panel discussant on the following topics: Relationships in the Field; Moving through the Program: A Guide to Graduate Study in the Department of Anthropology; Moving through the Program: Managing Post-coursework Expectations

Assistantships (Teaching & Research):

Michigan State University

Anthropology Department: Summer 2004, Spring 2009; courses include Field Methods in Archaeology; Great Discoveries in Archaeology

Integrative Studies in Social Science: Fall 2003-Spring 2006; courses include People and the Environment; Global Diversity and Interdependence; Power, Authority, and Exchange; Social Differentiation and Inequality; War and Revolution

University of Connecticut

Anthropology Department: Summer 2001; Field Methods in Archaeology

Related Research Experience:

Research Aide. Future of Work Project, Office of the Dean of Social Science, Michigan State University, East Lansing, MI 2007-2010.

Research Aide (January-May). Committee for the Status of Women in Anthropology, Keri Brondo Supervisor, American Anthropological Association. 2007.

Department Aide (June-October). University Archives and Historical Collections, East Lansing, Michigan; Michigan State University, East Lansing, MI. 2003.

Service:

National Organizations

Society for American Archaeology: Committee on the Status of Women in Archaeology, Committee Member. 2011-2013

Regional and Local Organizations

Mentor: University of Connecticut, College of Liberal Arts and Science, Alumni Mentor Program. 2012-present.

Treasurer: Michigan Archaeological Society, Upper Grand Valley chapter. 2007-2009

Volunteer: Nokomis Fall Festival, Nokomis Learning Center, October 6. 2007.

Volunteer: 52nd Midwest Archaeological Conference, Book Room: Michigan Archaeological Society and MSU Museum Press Table, October 12-15. 2006.

Volunteer: Michigan Archaeology Day, Lansing Historical Center, October 1st. 2005.

Secretary: Michigan Archaeological Society, Upper Grand Valley chapter. 2004-2006.

Manuscript Reviews

Journal Manuscripts Reviewed: *American Antiquity* (2), *Journal of Archaeological Sciences* (1), *Microscopy Research and Technique* (1)

Professional Memberships:

Society for American Archaeology
Register of Professional Archaeologists
Midwest Archaeological Conference
Washington Association of Professional Anthropologists
American Evaluation Association
Washington Evaluators