

KATHARINE M. JOHNSON

Department of Geography
University of Connecticut
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RESEARCH INTERESTS

Human-environment interaction and anthropogenic impacts on the development and history of the landscape; geospatial information technologies and remote sensing; LiDAR; data visualization and 3D modeling; landscapes and historical ecology.

EDUCATION

University of Connecticut 2012 – 2016 (expected)
PhD Candidate, Geography
Advanced to candidacy 10/2014

University of Massachusetts Boston 2010 - 2011
Graduate Certificate, Geographic Information Technology
Courses: Analytical Cartography, Environmental Modeling with Raster, Remote Sensing, Programming with ArcObjects using VBA

University of Massachusetts Boston 2006 - 2009
M.A. Historical Archaeology, *summa cum laude*

University of Rhode Island 2002 - 2006
B.A. Anthropology, B.A. Art History, *magna cum laude*

RECENT PROFESSIONAL HISTORY

Geospatial Data and Web Development Specialist
Map and Geographic Information Center
Connecticut State Data Center, Storrs, CT Aug. 2014 – present

Census and Geospatial Data Specialist
Map and Geographic Information Center
Connecticut State Data Center, Storrs, CT Jan. 2013 – May 2014

GIS Analyst Intern
Business Intelligence and Analytics Division
Travelers Insurance Company, Inc., Hartford, CT Dec. 2012 – Jan. 2013

TEACHING EXPERIENCE

Department of Geography, University of Connecticut

- Co-Advisor, *Undergraduate Independent Study using LiDAR and GIS*
- Teaching Practicum, *Advanced GIS and Remote Sensing for Geoscience Applications*
- Teaching Assistant, *Introduction to Geography*

Map & Geographic Information Center, University of Connecticut

- Undergraduate student mentoring and teaching GIS
- Lectures and workshops on geospatial data and GIS applications

GRANTS, FELLOWSHIPS & AWARDS

Student Travel Awards, Northeast GSA (2013-2015), UConn Graduate School (2014), UConn Center for Integrative Geosciences (2014, 2015), UConn Department of Geography (2013-2015).
2015 **Summer Doctoral Fellowship**. Dept. of Geography, University of Connecticut
2014 **Doctoral Dissertation Fellowship**. The Graduate School, University of Connecticut
2014 **Award of Innovation for Geospatial Server Development and Implementation**. Connecticut State Data Center and Map and Geographic Information Center at UConn Libraries.
2014 **Summer Predoctoral Fellowship**. Dept. of Geography, University of Connecticut
2014 **Publication Award**, Dept. of Geography, University of Connecticut
2014 **Dean Ross MacKinnon Fellowship**, College of Liberal Arts and Sciences, UConn
2014 **Carville Earle Award**, Historical Geography Specialty Group, Assoc. of American Geographers

- 2013 **Poster Award**, Northeast ArcGIS Users Group, Spring Meeting, Amherst MA.
 2013 **Summer Predoctoral Fellowship**, Dept. of Geography, University of Connecticut
 2012 **Graduate Assistantship**, Dept. of Geography, University of Connecticut
 2009 **Community Preservation Research Grant**, Community Preservation Committee, Westport MA
 2007 **Dr. Robert W. Spayne Research Grant**, University of Massachusetts Boston
 2007 **Graduate Student Research Grant**, Fiske Center for Archaeological Research, UMass Boston
 2006 **Research Assistantship**, University of Massachusetts Boston Department of Anthropology
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PUBLICATIONS PEER-REVIEWED ARTICLES

- **Johnson, K.M.** and W.B. Ouimet, in revision. Stone walls as diagnostic features of the Anthropocene in southern New England. *Anthropocene*.
- **Johnson, K.M.** and W.B. Ouimet, 2014. Rediscovering the lost archaeological landscape of southern New England using airborne Light Detection and Ranging (LiDAR). *Journal of Archaeological Science* 43: 9-20. [Selected media coverage related to this article:](#)
 - *National Geographic*, "Lost' New England Revealed by High-Tech Archaeology" (Jan. 3, 2014)
 - *Science*, "Lasers Unearth Lost 'Agropolis' of New England" (Jan. 10, 2014)
 - *NPR*, "Archaeology Tech at UConn", Interview on "Where We Live" (Jan. 13, 2014)
 - *Archaeology Magazine (print)*, "Peeping through the Leaves" (May/June issue, 2014)
- Trigg, Heather B., D. Bolender, **K.M. Johnson**, M. Patalano and J. Steinberg. 2009. Note on barley found in dung in the lowest levels of the farm mound midden at Reynistadur, Skagafjordur, Iceland. *Archaeologia Islandica* 7:64-72.

BOOK REVIEWS

- **Johnson, K.M.** 2014. Book Review of *Life on a Rocky Farm: Rural Life near New York City in the Late Nineteenth Century* by L.C. Barger (2013). *Historical Geography* 42: 388-390.

THESES

- **Johnson, K.M.**, 2016 (expected). "Investigating historic human-environment impacts on the southern NE landscape using LiDAR & geospatial information systems." Doctoral Dissertation, Department of Geography, University of Connecticut
- **Johnson, K.M.** 2009. "That charm of remoteness": a study of landscape stability in Little Compton, RI. MA Thesis, Historical Archaeology, University of Massachusetts Boston.

CONFERENCE ABSTRACTS & PRESENTATIONS

- **Johnson, K.M.** and W.B. Ouimet, 2015. "Impacts of terrain roughness on 18th-20th century land use distribution and sediment mass transfer in southern New England" *GSA Abstracts with Programs* 47(7): 239. Paper presented at the Geological Society of America national meeting, Baltimore, MD, Nov. 2015.
- Ouimet, W.B., D.P. Dethier, **K.M. Johnson**, M. Kotikian, and W. Wicherski, 2015. "Quantifying 18th to early 20th century human impacts on hillslopes and sediment mobilization in southern New England and Colorado Front Range" *GSA Abstracts with Programs* 47(7): 240. Paper presented by W.B. Ouimet at the Geological Society of America national meeting, Baltimore, MD, November 2015.
- **Johnson, K.M.** and W.B. Ouimet, 2015. "Quantifying the Anthropocene: the Physical and Cultural Controls on Stone Wall Construction in Southern New England" Paper presented at the Association of American Geographers meeting, Chicago, IL. April 2015.
- **Johnson, K.M.**, W.B. Ouimet, and Z. Raslan, 2015. "Geospatial and LiDAR-based analysis of 18th to early 20th century timber harvesting and charcoal production in southern New England," *GSA Abstracts with Programs* 47(3): 65. Paper presented at the Geological Society of America Northeastern Section meeting, Bretton Woods, New Hampshire. March 2015.
- Ouimet, W.B., **K.M. Johnson**, and M.M Hill, 2014. "Historical archaeology, historic human-environment interactions, and land-use dynamics in southern New England using aerial LiDAR" *GSA Abstracts with Programs* 46(6): 96. Poster presented by W.B. Ouimet at the Geological Society of America national meeting, Vancouver, British Columbia, October 2014.
- **Johnson, K.M.** and W.B. Ouimet, 2014. "'Butted and bounded as followeth': LiDAR and the historical division of the landscape in southern New England" Paper presented at the Society for Historical Archaeology annual meeting, Quebec City, Canada. January 2014.

- **Johnson, K.M.** and W.B. Ouimet, 2013. "Uncovering the past: GIS analysis of archaeological features under New England forests using high resolution topographic data (LiDAR)" Poster presented at the Northeast ArcGIS User group meeting, Amherst, MA. May 2013. Won NEARC poster award.
- **Johnson, K.M.** and W.B. Ouimet, 2013. "Archaeological applications of LiDAR in southeastern New England" *GSA Abstracts with Programs* 45(1): 101. Paper presented at the Geological Society of America Northeastern Section meeting, Bretton Woods, New Hampshire. March 2013.
- Ouimet, W.B. and **K.M. Johnson**, 2013. "Uncovering the past: Mapping and exploring networks of stone walls under New England forests using high resolution topographic data (LiDAR)" Paper presented by W.B. Ouimet at the Association of American Geographers meeting, Los Angeles, CA. April 2013.
- **Johnson, K.M.**, 2010. "The Town Underground: Commons Archaeology Tour" Lecture/Tour for the Rhode Island Historic Preservation Conference, Little Compton, RI. April 24, 2010.
- **Johnson, K.M.**, 2010. "The Relevance of Early Modern Archaeology in Skagafjörður, Iceland" Paper presented at the Society for American Archaeology conference, St. Louis, MO. April 2010.
- **Johnson, K.M.**, 2009. "Public archaeology at the Wilbor House in Little Compton, RI" Paper presented at the Northeast Anthropological Association annual meeting, Providence, RI, March 2009. Co-chair/organizer of the session, "Engaging the Public with Archaeology"
- **Johnson, K.M.**, 2009. "Proposed archaeology at the Waite-Potter house in Westport, MA." Paper presented at the Massachusetts Archaeological Society meeting, New Bedford, MA, April 2009.

TECHNICAL REPORTS & NEWSLETTERS

- Bolender, D.J., **K.M. Johnson**, J.W. Schoenfelder, and G. Zoëga. 2011. *Report of the Skagafjörður Archaeological Settlement Survey 2009: Excavations at Stóra-Seyla, Area C*. University of Massachusetts Boston, Fiske Center for Archaeological Research. Submitted to National Science Foundation.
- Beranek, C.M. and **K.M. Johnson**. 2011. "Recent Archaeological Excavations at the Waite-Kirby-Potter Site," *The Harbinger: Newsletter of the Westport Historical Society* 44(1): 3–4. Spring 2011.
- **Johnson, K.M.** 2010. "Results of the archaeological investigations at the Wilbor House," *Past Times: The Newsletter of the Little Compton Historical Society*. Summer 2010.
- **Johnson, K.M.**, C.M. Beranek., K.A. Catlin, and L.W. Ng. 2010. *Documentary and archaeological research at the Waite-Kirby-Potter house, Westport, MA*. Fiske Center for Archaeological Research, Cultural Resource Study No. 37. University of Massachusetts Boston.
- **Johnson, K.M.** 2008. "Archaeology Update," *Past Times: The Newsletter of the Little Compton Historical Society*. Spring 2008.
- **Johnson, K.M.** 2004. "Little Compton's Historical Weapons Collection," *Past Times: The Newsletter of the Little Compton Historical Society*. Fall 2004.

INVITED PRESENTATIONS

- **Johnson, K.M.**, 2015. Westport Historical Society and Westport Land Conservation Trust, Westport, MA.
- Ouimet W.B. and **K.M. Johnson**, 2014. 9th IAIS Native-American Archaeology Roundtable, Washington, CT.
- **Johnson, K.M.**, 2014. Sakonnet Preservation Association and Tiverton Land Trust, Little Compton, RI.
- **Johnson, K.M.**, 2014. Rhode Island Historic Preservation and Heritage Commission, Providence, RI.
- **Johnson, K.M.**, 2013. Colloquium series, Fiske Center for Archaeological Research, University of Massachusetts Boston.
- **Johnson, K.M.**, 2013. Colloquium series, Department of Anthropology, University of Connecticut.
- **Johnson, K.M.**, 2013. Guest lecture, Department of Earth & Environmental Science, Wesleyan University.

SERVICE ACTIVITIES

- **Organizing Committee Member**
Physical Geography Symposium, Association of American Geographers annual meeting, 2016.
- **Reviewer**
Remote Sensing (2014, 2015), *Zeitschrift für Geomorphologie* (2015)
- **Conference session organizer/chair**
Association of American Geographers (April 2015)
Northeast Anthropological Association (March 2009)
- **Graduate Student Representative** (elected)
UConn Department of Geography, December 2013 – present

PROFESSIONAL AFFILIATIONS

Archaeological Institute of America
Association of American Geographers

Geological Society of America
Society for American Archaeology
Society for Historical Archaeology
Phi Beta Kappa, University of Rhode Island

**TECHNICAL
EXPERIENCE**

SOFTWARE

ArcGIS, ArcScene, ArcCatalog, ModelBuilder, Quantum GIS, GeoServer, Maptitude, ERDAS Imagine, Quick Terrain Modeler, LAsTools, Agisoft PhotoScan, Google Earth, Google SketchUp, Tableau

LANGUAGES

CSS, HTML, JavaScript, jQuery, PHP, Python, R, VBA

VISUALIZATION & MAPPING LIBRARIES

Google Maps API, Google Visualization API, HighCharts, Leaflet, Mapbox, OpenLayers

**ADDITIONAL
PROFESSIONAL
EXPERIENCE**

- **GIS Supervisor**
Massachusetts Historical Commission, Boston, MA June 2012 – Aug. 2012
- **Archaeologist/Historical Researcher**
Public Archaeology Laboratory, Inc. Pawtucket, RI June 2011 – June 2012
- **GIS Technician**
Massachusetts Historical Commission, Boston, MA July 2010 – June 2011
- **GIS Intern**
Massachusetts Historical Commission, Boston, MA Oct. 2009 – June 2010
- **Project Archaeologist**
Waite-Kirby-Potter House Project, Westport, MA Dec. 2008 – May 2010
Wilbor House/Brownell Farm Project, Little Compton, RI Sept. 2007–May 2009
- **Archaeological Field Technician**
John Milner Associates, Inc., Littleton, MA Nov. 2006 – May 2010
Fiske Center for Archaeological Research Sept. 2006 – Aug. 2009
Public Archaeology Lab, Inc. Pawtucket, RI May 2009 – June 2009
Gray and Pape, Inc., Providence, RI Oct. & Nov. 2006–2007
- **Graduate Research Assistant**
Digital Archaeology Laboratory
Fiske Center for Archaeological Research
University of Massachusetts Boston, Boston MA Sept. 2006 – Aug. 2009