**Kathryn A. Catlin**

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# RESEARCH INTERESTS

Political ecology; Environmental anthropology; Historical archaeology and economic anthropology of the Atlantic world; Medieval England; Viking Age Iceland and Greenland; Archaeologies of landscape; Archaeological technologies including remote sensing, geophysics, spatial analysis & GIS.

# EDUCATION

PhD (in progress) **Northwestern University**, Anthropology, expected June 2017. Matthew Johnson, chair.

M.A. **University of Massachusetts Boston**, Historical Archaeology, June 2011.

 Thesis: A Viking Age Political Economy From Soil Core Tephrochronology. John Steinberg, chair.

Coursework **Northern Virginia Community College**, Historic Preservation and Archaeology, 2007-2009. David Clark, advisor.

M.S.  **University of North Dakota**, Space Studies, May 2005.

 Thesis: Satellite Formation Flight near the Earth-Moon Triangular Libration Points. Craig McLaughlin, chair.

B.S **University of Maryland**, Aerospace Engineering, May 2003. Honors in Aerospace Engineering, University Honors Citation. Dean’s List, 6 semesters. David Akin, advisor.

# TEACHING EXPERIENCE

2013-present. **Teaching Assistant,** Northwestern University. Courses: ANTHRO214 (Unearthing History, Mark Hauser); ANTHRO213 (Human Origins, Erin Waxenbaum)

2012 **Teaching Assistant**, University of Massachusetts Boston. Course: Introduction to GIS for Archaeologists (informal mini-course, John Steinberg).

# FIELD AND LABORATORY EXPERIENCE

2012-present **Remote Sensing Assistant, Teaching Assistant, and Research Assistant**, Elite Landscapes in Southeastern England. Kent and Sussex, United Kingdom. PI: Matthew Johnson. Northwestern University, University of Southampton, and National Trust joint project. Geophysical survey, GIS, soil coring, supervise undergraduates from US and UK, archival research.

2009-present **Field Technician, Remote Sensing Assistant, and Laboratory Technician**, Skagafjörður

Archaeological Settlement Survey. Skagafjörður, Iceland (2009-ongoing) and Vatnahverfi,

Greenland (2010). PIs: John Steinberg, Douglas Bolender. Survey, soil coring, excavation, geophysical prospection, GIS, environmental sampling, lab analysis.

2012 **Remote Sensing Assistant**, Dominica, West Indies. PI: Mark Hauser. Fiske Center, Northwestern University, Wenner-Gren Foundation. Survey, geophysical prospection, GIS.

2010-2011 **Field Technician and Remote Sensing Assistant**, Durant-Kenrick House, Newton, MA. Andrew Fiske Center in association with the Newton Historical Society. PI: Christa Beranek.

2010 **Field Technician and Remote Sensing Assistant**, Great Friends Meeting House, Newport, RI. Andrew Fiske Center in association with Salve Regina University. PI: Sarah Schofield.

2010 **Field Technician**, Faneuil Hall Archaeological Investigation in Support of the Transportation and Information Hub Project. Andrew Fiske Center in association with the National Park Service and URS Corporation, Inc. PI: Kimberly Parson. Wet screening and environmental sampling.

2010 **Field Technician**, Monroe Tavern, Lexington, MA. Andrew Fiske Center. PI: Christa Baranek. Excavation & GIS.

2010 **Field School**, Whitehall Museum House, Middletown, RI. UMass Boston & Andrew Fiske Center in association with Salve Regina University and the Colonial Dames of America. PIs: David Landon, James Garman. Excavation, GIS, remote sensing, supervision of undergraduates.

2010 **Field Technician and Remote Sensing Assistant**, Loring-Greenough House, Jamaica Plain, MA. Andrew Fiske Center in association with the Jamaica Plain Tuesday Club. PI: Christa Baranek.

2009-2010 **Laboratory Technician**, Pambamarca Archaeological Project. Center for Materials Research in Archaeology and Ethnology, Massachusetts Institute of Technology. Supervisor: Heather Lechtman. Metallurgical analysis of three cuprous artifacts.

2009 **Field and Laboratory Technician**, Waite-Kirby-Potter House, Westport, MA. Andrew Fiske Center in association with the Town of Westport. PIs: Christa Baranek, Katharine M. Johnson. Excavation & ceramic analysis.

2007-2009 **Field Technician and Public Interpretation**, Loudoun Archaeological Foundation in association with Northern Virginia Community College. Supervisor: David T. Clark. Excavation, GIS and public outreach at Claude Moore Park, Sterling, VA, Banshee Reeks Nature Preserve, Leesburg, VA, and Loudoun Museum, Leesburg, VA.

# PREVIOUS POSITIONS

2011-2012 **GIS Supervisor**, Massachusetts Historical Commission. Maintain and update GIS database of historical resources in the state of Massachusetts. Design online mapping system: http://maps.mhcmacris.net. Supervisor: Michael Steinitz.

2009-2011 **Graduate Research Assistant**, Andrew Fiske Memorial Center for Archaeological Research, University of Massachusetts Boston. Maintain GIS databases for Fiske Center projects. Assist with remote sensing investigations. Train students in GIS. Supervisor: John Steinberg.

2010 **Sales Associate**, Lorem Ipsum Books, Cambridge, MA. Part-time. Sales, online sales, inventory.

2008-2009 **Volunteer**, Loudoun Museum, Leesburg, VA. Part-time. Set-up & crowd wrangling at events.

2007-2009 **Volunteer.** Loudoun Archaeological Foundation, Leesburg, VA. Website development. Interact with public at events, including public digs. Supervisor: David Clark.

2005-2009 **Mission Planner/Orbit Analyst,** Boeing, Leesburg, VA. Supervisor: Cesar Lindo.

2003-2005 **Graduate Research Assistant**,Department of Space Studies, University of North Dakota & NASA GSFC. Advisors: Craig McLaughlin (UND), Jesse Leitner and Richard Luquette (NASA).

1999-2003 **Undergraduate Research Assistant**, Space Systems Laboratory, University of Maryland College Park. Projects: MARS, SCAMP. Supervisor: David Akin.

2002 **Engineering Aide**, National Transportation Safety Board.Supervisor: James Cash.

1995 **Summer Intern**, Lost Towns Project, Annapolis, MD. Aid in excavation and artifact processing.

# ADDITIONAL COURSEWORK AND TRAINING

Historical archaeology and anthropology, Environmental archaeology, Public and community archaeology, Archaeological methods and theory, Archaeology of metals, Archaeology and anthropology of colonialism, Archaeology of gender, Buildings archaeology, Household archaeology, Anthropology of childhood, Anthropological theory, Biological anthropology, Linguistic anthropology, Museum practice, Satellite communications, Orbital mechanics, Life support and human factors, Thermodynamics, Rocket propulsion.

# PROFICIENCIES

Language: French (out of practice), Icelandic (hospitality)

Software: ArcGIS, Maptitude, OSGeo products, OpenLayers, ERDAS, FileMaker, SPSS, GPR-Slice, UNIX, Microsoft Windows/Office, Matlab, Perl, html, javascript, STK, Adobe products

Instrumentation: GPR, Conductivity, Resistivity, Magnetometry, GPS, TotalStation, XRF, microscopy, metallurgical sample preparation, machine shop

# PROFESSIONAL & HONORARY MEMBERSHIPS

American Anthropological Association

Register of Professional Archaeologists

Society for Historical Archaeology

Society for American Archaeology

Society for Economic Anthropology

Council for Northeast Historical Archaeology

Medieval Settlements Research Group

Viking Society for Northern Research

American Association for the Advancement of Science

American Institute of Aeronautics and Astronautics

Lambda Alpha

Sigma Gamma Tau

Dakota Space Society

National Society of Collegiate Scholars

Golden Key International Honour Society

National Honor Society

International Thespian Society

Girl Scouts of America

**AWARDS & GRANTS**

2012-2017 Northwestern University Fellowship (tuition and stipend for graduate study)

2014 Graduate Research Grant ($2830 to support dissertation research), The Graduate School, NU.

2014 Conference Travel Grant (to attend SHA 2014 conference), The Graduate School, NU.

2013 LeCron Foster and Friends of Anthropology at Northwestern Summer Research Grant ($800)

2011 Barbara E. Leudtke Book Award For Excellence in Historical Archaeology

2010-2011 Dr. Robert W. Spayne Research Grant ($2000 towards MA research), UMass Boston GSA.

2010 Professional Development Grant (to attend SHA 2011 conference), UMass Boston GSA.

2004-2005 NASA Graduate Student Researchers Program Fellowship

2004 & 2005 Placed 3rd in Graduate division at Region V AIAA Student Conference

2003 Team design project: First place at RASC-AL conference

1999-2003 University of Maryland Banneker-Key Scholarship

1999-2003 Maryland Distinguished Scholar Award

1999 National Merit Finalist

1999 Valedictorian, Old Mill High School

1999 National AP Scholar

1999 Girl Scout Gold Award

1998 George Washington University School of Engineering and Applied Sciences Medal

1996-1998 Center for Mathematics, Science, and Technology

# REPORTS

2013 Catlin, K. Report on the Nature and Disposition of Archaeological Finds from Bodiam Castle, East Sussex. Unpublished report.

2011 Bolender, D. J., J. M. Steinberg, B. N. Damiata, J. W. Schoenfelder, and K. Catlin. Preliminary Report:

Evaluating the Potential of Archaeogeophysical Surveying on Viking Age and Medieval Sites in Greenland,

2-16 August, 2010. Fiske Center for Archaeological Research Cultural Resource Management Study No. 51.

2011 Steinberg, J. M., B. N. Damiata, J. W. Schoenfelder, K. A. Catlin, and C. Campbell. Results of

Archaeogeophysical Surveying at the Great Friends Meeting House in Newport, Rhode Island. Fiske Center for Archeological Research Culture Resource Management Study No. 46.

2010 Johnson, K. M., C. M. Baranek, K. A. Catlin, and L. W. Ng. Documentary and Archaeological Investigations at the Waite-Kirby-Potter Site, Westport, Massachusetts. Fiske Center for Archaeological Research Cultural Resource Management Study No. 37.

2010 Steinberg, J., C. Beranek, J. Schoenfelder, and K. A. Catlin. Loring-Greenough House North Yard Archaeogeophysics, Jamaica Plain, Massachusetts. Fiske Center for Archaeological Research Cultural Resource Management Study No. 40.

2009 Steinberg, J. M., R. S. Shepard, E. L. Button, K. A. Catlin, D. J. Bolender, B. N. Damiata, K. R. Hale, J. E. Curtis, K. M. Johnson, J. W. Schoenfelder, A. Schriener, and M. Á. Sigurgeirson. Reports of the Skagafjörður Archaeological Settlement Survey 2009. Andrew Fiske Center, UMass Boston.

2009 Trigg, H. B., D. J. Bolender, K. A. Catlin, J. E. Curtis, S. A. Jacobucci, and J. M. Steinberg. Report of the Skagafjörður Archaeological Settlement Survey 2009: Using Pollen to Assess Local Environmental Variation during the Viking Age in Skagafjörður, Iceland. Andrew Fiske Center, UMass Boston.

2003 Catlin, K. A. Experimental Investigation of a Simple Low-Cost EVA Liquid Cooling Garment. Space Systems Laboratory Document SSL03-005, College Park, MD.

# PUBLICATIONS

2011 Catlin, K. A. *A Viking Age Political Economy from Soil Core Tephrochronology*. Master’s thesis. University of Massachusetts Boston.

2007 Catlin, K. A. and C. A. McLaughlin. Earth-Moon Triangular Libration Point Spacecraft Formations. *Journal of Spacecraft and Rockets* 44(3): 660-670.

2005 Catlin, K. A. *Relative Motion of Two Spacecraft near the Earth-Moon Triangular Libration Points*. Master's thesis. University of North Dakota.

# PRESENTATIONS

2014 Catlin, K. A. "Medieval Archaeology as Anthropology: A New Paradigm in Medieval English Settlement Research." Paper presented at the 49th International Congress on Medieval Studies, Kalamazoo, MI, May 8.

2014 Catlin, K. A. “Transhumance to Farmstead: Landscape and the Medieval Resettlement of Dartmoor.” *In* 47th Annual Conference on Historical and Underwater Archaeology. Quebec City, Canada, Jan. 12.

2013 Bolender, D. J., and K. A. Catlin. “Were the Vikings Really Green? Settlement, Environmental Degradation, and the Domestication of the Icelandic Landscape.” *In* 112th Annual Meeting of the American Anthropological Association. Chicago, IL, Nov. 22.

2013 Catlin, K. A., and D. J. Bolender. “Second Nature: Icelandic Landscapes of Social Inequality.” *In* 112th Annual Meeting of the American Anthropological Association. Chicago, IL, Nov. 22.

1. Catlin, K. A., J. M. Steinberg, B. N. Damiata, J. W. Schoenfelder, and W. Gillis. “Shallow Geophysics of Cemetery Landscapes.” Cemetery Preservation Workshop, National Park Service, Lowell, MA, Nov. 18.

1. Catlin, K. A. “A Stratified Landscape: Soil Cores and the Origins of Wealth in Viking Age Iceland.” Poster. 77th Annual Meeting of the Society for American Archaeology, Memphis, TN, April 18-22, 2012.

2010 Catlin, K. A. "Getting to the Core of Skagafjörður." 17th Anniversary Meeting of the Society for American Archaeology, St. Louis, MO, April 18, 2010.

2005 Catlin, K. A. "Spacecraft Formation Design at the Earth-Moon Triangular Libration Points." AIAA Region V Student Conference, Wichita, KS, April 2005.

2004 Catlin, K. A. "Satellite Formation Flight Using the Perturbed COWPOKE Equations." AIAA Region V Student Conference, Minneapolis, MN, April 2004.

2004 Catlin, K. A., and C. A. McLaughlin. "Relative Motion of Two Spacecraft near the Earth-Moon Triangular Libration Points." AIAA/AAS Astrodynamics Specialist Conference, Providence, RI, Aug. 2004.