

NICHOLAS TRIPCEVICH, PH.D.

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Education

- 2007 **Ph.D., Anthropology, University of California, Santa Barbara.**
Dissertation Title: *Quarries, Caravans, and Routes to Complexity: Prehispanic Obsidian in the South-Central Andes.*
Committee Members: Mark Aldenderfer (co-chair), Michael Jochim (co-chair), Katharina Schreiber, Keith Clarke (Geography).
- 2000 **M.A., Anthropology, University of California, Santa Barbara.**
Archaeology specialization.
- 1994 **B.A., Geography, University of Montana, Missoula.**
Minor in Forestry.

Research Interests

Anthropological archaeology, archaeometry, social complexity, Andean regional interaction, exchange theory, ethnoarchaeology, pastoralist mobility, GIS, lithic analysis, and ancient mining.

Publications (* peer reviewed publication)

- In Press* Byram, R.S., Lightfoot, K.G., Cuthrell, R.Q., Nelson, P., Sunseri, J., Jewett, R.A., Parkman, E.B., Tripcevich, N. **Geophysical Investigation of Mission San Francisco Solano, Sonoma, California.** *Historical Archaeology.*
- 2016* Capriles, J. and N. Tripcevich (editors). *The Archaeology of Andean Pastoralism*, University of New Mexico Press, Albuquerque (pub. date March 2016).
- 2016* **Ethnoarchaeology of a Cotahuasi Salt Caravan: Exploring Andean Pastoralist Movement.** In *The Archaeology of Andean Pastoralism*, University of New Mexico Press, Albuquerque (pub. date March 2016).
- 2014* Contos, J. and N. Tripcevich. **Correct placement of the source of the Amazon River in the Rio Mantaro drainage.** *Area (Journal of the Royal Geographical Society)*, Vol. 46, No. 1, pp-27–39.
- 2013* Tripcevich, N. and K. Vaughn (editors) *Mining and Quarrying in the Ancient Andes: Sociopolitical, Economic and Symbolic Dimensions*, Springer Press, New York.
- 2013* Tripcevich, N. and D. Contreras. **Archaeological approaches to Obsidian Quarries: Investigations at the Quispisisa Source.** In *Mining and Quarrying in the Ancient Andes: Sociopolitical, Economic and Symbolic Dimensions*, edited by N. Tripcevich and K. Vaughn. Springer Press, New York (in press).
- 2012 Contreras, D.A., N. Tripcevich and Y. Cavero Palomino. **Investigaciones en la fuente de la obsidiana tipo Quispisisa, Huancasancos- Ayacucho.** In *Proceedings of the XVI Congreso Peruano del Hombre y la Cultura Andina y Amazónica*, Universidad Nacional Mayor de San Marcos, Lima, Peru, 2009.
- 2012* Tripcevich, N. and A. Mackay. **Spatial and Temporal Variation in Stone Raw Material Provisioning in the Chivay Obsidian Source Area.** In *Advances in Titicaca Basin Archaeology, Vol. 3*, edited by A. Vranich, E. A. Klarich and C. Stanish, University of Michigan Press, Ann Arbor, Michigan, pp. 141–162.

- 2012* **Tripcevich, N., J. Eerkens, T. Carpenter. Obsidian Hydration at High Elevation.** *Journal of Archaeological Science*, Vol. 39, No. 5, pp. 1360–1367.
- 2011* **Tripcevich, N., and A. Mackay. Procurement at the Chivay Obsidian Source, Arequipa, Peru.** *World Archaeology*, Vol. 43, No. 2, pp. 271-297.
- 2011* **Tripcevich, N. and D.A. Contreras, Quarrying evidence at the Quispisisa Obsidian Source, Ayacucho, Peru.** *Latin American Antiquity*, Vol. 22, No. 1, pp. 121–136.
- 2010* **Tripcevich, N. and S.A. Wernke. On-Site Digital Recording of Excavation using GIS.** *Journal of Field Archaeology*, Vol. 35, No. 4, pp. 407–424.
- 2010 **Review of volume *The Archaeology of Mobility*, 2008, edited by H. Barnard and W. Wendrich, Cotsen Institute of Archaeology, Los Angeles.** *Journal of Field Archaeology*, Vol. 35, No. 3, pp. 353–356.
- 2010* **Eerkens, J.W., K.J. Vaughn, M. Linares-Grados, C.A. Conlee, K. Schreiber, M.D. Glascock, and N. Tripcevich. Spatio-temporal patterns in obsidian consumption in the Southern Nasca Region, Peru.** *Journal of Archaeological Science*, Vol. 37, No. 4, pp. 825–832.
- 2010* **Exotic goods, Chivay obsidian, and Sociopolitical change in the South-Central Andes.** In *Trade and Exchange: Archaeological Studies from History and Prehistory*, edited by C. Dillian and C. White. Springer Press, New York, pp. 59–73.
- 2009 **Tripcevich, N. and W. Yépez Álvarez. La fuente de obsidiana Chivay y su posición en los Andes Sur Centrales.** En *Arqueología del Área centro sur Andina: Actas del Simposio Internacional de Arqueología del Área Centro Sur Andina*, editores M. Ziolkowski, J. Jennings, L. A. Belén Franco and A. Drusini, pp. 127–152. vol. 7. Boletín del Centro de Estudios Precolombinos de la Universidad de Varsovia, Warszawa, Polonia.
- 2004* **Flexibility by Design: How mobile GIS meets the needs of archaeological survey.** *Cartography and Geographical Information Science*, Vol. 31, No. 3, pp. 137–151.
- 2004 **Interfaces: Mobile GIS in archaeological survey.** *The SAA Archaeological Record*, May 2004. Vol. 4, No. 3, pp 17–22.

Extramural Awards

- 2011 **National Geographic Committee for Research and Exploration grant (#8916-11), \$23,135.** *Prehispanic Obsidian Procurement at the Quispisisa Source, Ayacucho, Peru*, with Daniel A. Contreras. Examining quarrying and obsidian processing at a major source in southern Peru.
- 2011 **Brennan Foundation Program in Support of Archaeological Field Research in the Development of Early Civilizations, \$5000** (with Daniel Contreras). Support for research at the Quispisisa obsidian source.
- 2011 **IMLS Advancing Digital Grant, \$982,708** (with matching funds). *Mukurtu Archive* project awarded to K. Christen (Washington State University). Advisor and developer for an open-source web based cultural heritage system for tribal organizations.
- 2007 **Howard Heinz Endowment for Archaeological Field Research in Latin America, \$6,620.** *Transport in the Ancient Andes*, an ethnoarchaeological study of contemporary, long-distance llama caravans bearing salt in Arequipa, Peru.
- 2006 **Student SAA Paper of the Year**, Intl Association of Obsidian Studies.
- 2003 **National Science Foundation Dissertation Improvement Grant (#0331181), \$11,990.** Research at the Chivay obsidian source, Arequipa Peru.

- 2003 **Proyecto Ch'amak Pacha, ESRI 2003 Special Achievement in GIS award.**
 2001 **California Space Grant.** Funding for applying remote sensing technology to regional archaeological research in the Andes.

Intramural Awards

- 2008-2015 **Stahl Fund,** Recurrent research support from the Archaeological Research Facility, UC Berkeley
 2006 **Anthropology of Technology Prize,** UC Santa Barbara Anthropology
 2006 **Graduate Division Dissertation Fellowship**
 2005 **Travel Grant, UCSB Graduate Division,** Award to present at the *Simposio sobre Arqueología del Área Centro Sur Andina*, Arequipa, Perú.
 2002 **Dissertation Proposal Writing Fellowship, UCSB Graduate Division.**
Fee Fellowships, UCSB Anthropology. Recurrent fee waivers.

Symposia Organized

- 2012 **Recent Anthropological Perspectives on Past and Present Andean Pastoralism.** Symposium organized for the 111th Annual Meeting of the *American Anthropological Association*, San Francisco, CA. Co-organized with José Capriles (University of Pittsburgh).
 2011 **Mining and Quarrying in the Ancient Andes.** Symposium organized for the 76th Annual Meeting of the *Society for American Archaeology*, Sacramento, CA. Organizer and co-chair with Kevin J. Vaugh (Purdue).

Professional and Field Experience

- Aug 2007 – *present* **Laboratory Manager, Archaeological Research Facility, UC Berkeley.** Maintenance and training with digital archaeological tools including total stations, GPS, laser scanners. Building coordinator, ARF website manager. Manage GIS lab, XRF lab, soil analysis lab.
 July 2015 **Obsidian geochemistry project in Chile.** Collaboration with the Anillo project (CONICYT PIA Anillo Soc 1405, C. Santoro, director).
 Spring 2015 **Lecturer (Anthropology, UC Berkeley), 128M Geospatial Archaeology.** Designed and taught semester-long course on GIS and spatial analysis.
 Sept 2014 – Jan 2015 **Joint appointment with Research Information Technologies.** 10 hours per week Testing collaboration platforms for campus computing infrastructure.
 July – Oct. 2012 **Proyecto Arqueológico Caracha Alta, Ayacucho, Peru** (co-PI with Daniel Contreras). Survey and test excavations at the Quispisisa obsidian source in central Peru.
 Aug 2011 **Obsidian geochemistry project in Peru and Bolivia.** Analysis of artifacts in collections with portable XRF.
 2010 – 2011 **Cultural heritage web technology for Mukurtu Archive.** Web developer and advisor on open source web project for hosting cultural heritage content with fine-grained access protocols based on Drupal CMS.
 July 2010 **Workshop: NASA Space Archaeology Program.** A three day workshop on remote sensing and GIS in archaeology taught by archaeologists and NASA scientists at UC Berkeley's Geographical Innovation Facility.
 Aug 2009 **Surface survey and mapping at the Quispisisa Obsidian Source, Peru.** Geoarchaeological study of surface features in the vicinity of a quarry.
 July 2009 **Geophysical survey at Peyre Blanque, Ariège, France.** Magnetometer survey at an open air Magdalenian site. M. Conkey, director.
 Sept 2009 **Workshop: Prospection in Depth.** Five day workshop on advanced geophysical techniques in archaeology offered by the National Park Service at the San Francisco Presidio.

July 2007 **Director, ethnoarchaeology project: *Transport in the Ancient Andes.***
Research project focusing on llama caravan transport speeds and travel strategies, supported by a grant from the Heinz Foundation.

June 2007 **Digital excavation GIS developer for Vanderbilt University project in Arequipa, Peru.** Developed customized Arcpad interface and data structure for nearly-paperless excavation project of a Colonial period chapel.

July 2005 – May 2007 **GIS Technician for URS Corporation.**
Tasks include spatial analysis, mobile GIS development and training, and map production for environmental consulting office.

Wtr 2007 **Lecturer, UCSB Anthropology: *Origins of Complex Societies***

Fall 2006 **Associate Instructor, UCSB Anthropology: *GIS in Anthropology***

Fall 2005 **Associate Instructor, UCSB Anthropology: *Clash of Cultures***

June – July 2004 **Mobile GIS implementation, Proyecto Arqueológico Norte Chico.**
Designed an archaeological survey site documentation method using ESRI Arcpad for survey project directed by J. Haas and K. Nelson.

July 2003 – Aug 2004 **Dissertation Research Project, Colca Valley, Peru. Survey and analysis.**
Director of archaeological research project involving survey and test excavations in vicinity of Chivay obsidian source, Arequipa, Peru, funded by NSF award #0331181.

Mar – Apr 2003 **Field Archaeologist, S.A.I.C., Twenty-nine Palms, CA**
Cultural resource survey in eastern California.

Aug – Sept 2002 **Preliminary Dissertation Research at Chivay Obsidian Source**
Investigated obsidian source and settlement distributions in adjacent habitation areas in Colca valley, Arequipa, southern Peru.

2001 **Field Archaeologist, Proyecto Ch'amak Pacha, Puno, Peru**
Directors: M. Aldenderfer and N. Craig, UCSB (Duration: 3 months).

2000 **Field Archaeologist, Proyecto Ch'amak Pacha, Puno, Peru**
Director: M. Aldenderfer, UCSB (Duration: 3 months)

1999 **Field Archaeologist, Proyecto Wiskachuni, Juli, Peru**
Director: C. Herhahn, UCSB (Duration: 2 months).

March 1999 – Dec 2005 **Computer lab support, maintenance, training, LSIT, UC Santa Barbara**
Maintenance of equipment, hardware and software training for users of Mac and Windows computers, Letters and Sciences Information Technology.

June 1995 – Oct 1997 **GIS Technician and graphics, WSAL, Univ of Montana, Missoula, MT**
G.I.S. tasks, graphics, and website development for the Wildlife Spatial Analysis Lab at the University of Montana.

Aug 1995 – Feb 1997 **Archaeological Cartographer, Schwab Cultural Consulting, Polson, MT**
Compiled data for Native American land claims litigation. Designed project area and site maps for cultural resource surveys.

1994 **Field Archaeologist, Heritage Research Center, Black Hills, SD**
Cultural resource survey and testing in the Black Hills National Forest. Designed and produced site maps. (Duration: 2 months)

1993 **Trail Leader, Glaciological Field School, Univ. of Alaska, Juneau, AK**
Physical geography research on geology, geomorphology and glacier processes conducted during a seven week field season on the Juneau Icefield.

Apr 1993 – Nov 1997 **Cartographer and G.I.S. technician, Missoula, MT**
Cartographer specializing in archaeological and recreational maps.

May 1992 – Sept 1992 **Survey Crew Leader, Knowledge Northwest, Pendleton, OR**
Archaeological cultural resource survey of National Forest land in Oregon.

June 1991 – Aug 1991 **Archaeological Field School, Colorado State University, Fort Collins**
Survey and excavation, Late Pueblo era kivas, Hovenweep area, Colorado.

Professional Presentations (* invited)

- 2015* **Invited Speaker.** A lightning talk at the Berkeley Institute for Data Science on the use of data science in archaeological research by ARF researchers.
- 2015* **Transportation and Regional Exchange in the Ancient Andes.** Invited lecture for the Archaeological Institute of America, San Francisco Chapter.
- 2015* **Fuentes de Aproveccionamiento de Obsidiana e Interaccion Social en los Andes Sur Centrales.** Conferencia magistral presented at the Instituto de Alta Investigacion de la Universidad de Tarapaca, Arica, Chile.
- 2015* **2015 Researching the Fort Ross Village** with G. Farris, K. Lightfoot, E.B. Parkman, J. Allan, R.S. Byram, R. Cuthrell, R. Jewett, P. Nelson, N. Tripcevich in symposium, "Archaeology and Historic Preservation in California State Parks," organized by J. Foster. 49th Annual Meeting of the Society for California Archaeology, Redding, California.
- 2013* **Herders and farmers in the Andean sierra.** Presentation at the 78th Annual Meeting of the *Society for American Archaeology*, Honolulu, HI.
- 2013* **Assembling 19th century cartographic data in a GIS for archaeological site identification** with R. Scott Byram. Presentation at the 47th Annual Meeting of the *Society for California Archaeology*, Berkeley, CA.
- 2012 N. Tripcevich and D.A. Contreras. **Obsidian miner's houses and workshops: Recent research at the Quispisisa source in Ayacucho, Peru.** Presentation at the Archaeological Research Facility, UC Berkeley.
- 2012* **Time, Landscape, and Caravan Mobility.** Presentation at the 111th Annual Meeting of the *American Anthropological Association*, San Francisco, CA.
- 2011* **Like Salt or Like Gold? Obsidian procurement and exchange in prehispanic Andean highlands.** Invited speaker at the Anthropology 290 Colloquium Series, UC Berkeley.
- 2011* **Mobile GIS and Digital Workflows in Archaeology.** Invited speaker at Cotsen Institute of Archaeology, UC Los Angeles.
- 2011* **Digital Documentation in Archaeological Fieldwork.** Invited speaker at the Geographic Innovation Facility, College of Natural Resources, UC Berkeley.
- 2011 **Quarrying and Production at Quispisisa Obsidian Source.** Presentation at the 76th Annual Meeting of the *Society for American Archaeology*, Sacramento, CA.
- 2010* **Onward to Apurimac: A llama caravan journey in southern Peru.** Presentation at the 75th Annual Meeting of the *Society for American Archaeology*, St. Louis, MO.
- 2010 **Ethnoarchaeology of an Andean Llama Caravan.** Poster presented at the 50th annual meeting of the *Institute of Andean Studies*, Berkeley, CA.
- 2009 D.A. Contreras, N. Tripcevich, and Y. Cavero Palomino. **Investigaciones en la fuente de la obsidiana tipo Quispisisa, Huancasancos, Ayacucho (Peru).** Presentation at the Universidad Nacional Mayor de San Marcos, Lima, Peru.
- 2009 N. Tripcevich and D.A. Contreras. **Quarries of Quispisisa: An obsidian source in Ayacucho, Peru.** Presentation at the Archaeological Research Facility, UC Berkeley.
- 2009 D.A. Contreras and N. Tripcevich. **Research at the Quispisisa obsidian source in the central Peruvian highlands.** Presentation at the 74th Annual Meeting of the *Society for American Archaeology*, Atlanta, GA.
- 2008 **Llama caravan travel.** Poster presented at the American Anthropological Association meetings, San Francisco, CA.

- 2008 **Estimating Llama Caravan Travel Speeds.** Poster presented at the inaugural event for Spatial@UCSB, UC Santa Barbara.
- 2008 **Digital field methods for archaeological survey and excavation.** Presentation at the Archaeological Research Facility, UC Berkeley.
- 2008* **Llama Caravan Transport: A study of mobility with a contemporary Andean salt caravan.** Presentation at the 73th Annual Meeting of the *Society for American Archaeology*, Vancouver, B.C., Canada.
- 2008* **Digging Digitally: Mobile GIS in archaeological fieldwork.** University of California, Los Angeles, Cotsen Institute of Archaeology. Guest speaker in the “Technological Innovations in Archaeological Analysis” series.
- 2007 **Llama Purichiq (film).** An 18 minute film based on footage from llama caravan ethnoarchaeology work in Peru viewable at <http://MapAspects.org>.
- 2007 **Llama caravan ethnoarchaeology.** Presentation at the Archaeological Research Facility, UC Berkeley.
- 2007 N. Craig, M. Perales, **N. Tripcevich**, K. Nelson, A. Ruiz, J. Haas, W. Creamer, M. Aguilar, M. López. **Sistemas de Información Geográfica Móviles como Infraestructura de Información para la Colección y Análisis de Extensas Bases de Datos Regionales Comparativas de Sitios Arqueológicos.** Paper presented at the conference *Comparative Perspectives on the Archaeology of Coastal South America*, Lima, Perú.
- 2006* **Mobility and Exchange in the Andean Preceramic: Insights from obsidian studies.** Presentation at the 71th Annual Meeting of the *Society for American Archaeology*, San Juan, Puerto Rico.
- 2006 **Production and Exchange of Obsidian from the Colca Valley, Arequipa, Peru.** Presentation at the 46th Annual Meeting of the *Institute of Andean Studies*, Berkeley, CA .
- 2005* **N. Tripcevich** and W. Yopez Alvarez. **Fuente de Obsidiana Chivay y su posición en los Andes Sur Centrales.** Por Simposio Internacional sobre Arqueología del Area Centro Sur Andina, Arequipa, Perú.
- 2005 **N. Tripcevich** and A. Mackay. **Spatial and Temporal Variation in Stone Raw Material Provisioning Around the Chivay Obsidian Source.** Presentation at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City, UT.
- 2004 **Mobile GIS on Archaeological Survey.** Presentation at the Archaeological Sciences of the Americas meeting, University of Arizona, Tucson.
- 2004 **Chivay Obsidian Source and South-Central Andean Prehistory.** Presentation at the 69th Annual Meeting of the *Society for American Archaeology*, Montreal Canada.
- 2003 **Viewshed Analysis in Archaeology.** Poster presented at the 68th Annual Meeting of the *Society for American Archaeology*, Milwaukee Wisconsin.

Teaching Experience

- 2015 **Invited Speaker.** Presented a talk titled “Transportation and Regional Exchange in the Ancient Andes” to the Archaeological Institute of America.
- 2015 **Lecturer, Geospatial Archaeology, UC Berkeley.** Designed and taught semester-long course on GIS and spatial analysis (Anthropology 128m).
- 2008 – 2015 **Guest Speaker in Anthropology courses at UC Berkeley.** Lectured in courses: *Environmental Archaeology* (Kirch and Hastorf), *Research Design Seminar* (Kirch), *Anthropology and Energy* (Nader), *New Media in Archaeology* (Tringham), and *Introduction to Archaeology* (Sunseri), *Introduction to Archaeology* (Habu).

- 2008 – 2015 **Workshop Instructor, Archaeological Research Facility.** Led workshops on use of GIS, Cartography, GPS, and Total Station use in archaeology.
- 2013 **Undergraduate Research Apprenticeship mentoring: Organization of archaeological field data.** With L. Maher, advised students in processing of Quispisisa obsidian source field data
- 2008 – 2012 **Digital Field Methods in Archaeology.** Guest lecturer in Digital Archaeology course by J. Rick, D. Contreras, S. Morrell-Hart at Stanford.
- 2011 **Archaeological Field School, UC Berkeley.** Instructed the geospatial component of archaeological field school taught by K. Lightfoot.
- 2011 **From Total Station to Map: EDM fieldwork data in Arcmap.** Workshop at the Archaeological Research Facility, UC Berkeley.
- 2011 **Digital Field Methods in Archaeology.** Guest speaker in Digital Archaeology course taught by J. Rick at Stanford University.
- 2010 – 2011 **Undergraduate Research Apprenticeship mentoring: Analysis of Ethnographic Transcripts.** With C. Hastorf, advised student Amanda Larson in analysis of Quechua llama caravan transcripts translated into Spanish.
- 2008 – 2010 **Undergraduate Research Apprenticeship mentoring: Digital video editing project.** With C. Hastorf, advised student Diandra Rodriguez in video editing using llama caravan footage in Final Cut Pro.
- 2008 **Digital Field Methods in Archaeology.** Guest speaker in Digital Archaeology course taught by D. Contreras at Stanford University.
- 2007 **Lecturer, *Origins of Complex Societies*, UC Santa Barbara**
Designed and taught course surveying exploring the theories and evidence surrounding the origins of state-level societies in New and Old World.
- 2006 **Teaching Associate, *GIS and Anthropology*, UC Santa Barbara**
Designed and taught class concerning the theory and application of geospatial technology in anthropology.
- 2005 **Teaching Associate, *Clash of Cultures*, UC Santa Barbara**
Designed and taught undergraduate course about the culture contact period.
- 2003 **Instructor, GIS and GPS workshops, Arequipa, Peru**
Led two workshops in Spanish for Peruvian archaeologists and mountain rescue personnel on the use of GIS and GPS in fieldwork.
- 2000 – 2004 **Instructor, archaeological fieldwork and use of GIS technology**
Instructed fieldwork participants in archaeological research projects using GIS-based techniques for excavating, surveying, and lab work.
- 1998 – 2004 **Teaching Assistant, UC Santa Barbara, seven quarters**
- Intro. To Archaeology
 - Intro. To Cultural Anthropology
 - Third World Environments
 - Peoples and Cultures of India
 - Intro. To Physical Anthropology
 - Understanding Cultural Differences
 - Cultural Ecology

Review Activities

Evaluated grant proposals for the National Science Foundation, National Geographic CRE, CONICET (Argentina), SSHRC (Canada). Reviewed journal submissions for American Antiquity, Andean Past, Chungara: Revista de Antropología Chilena, Current Anthropology. Geoarchaeology, Geology, Latin American Antiquity, Journal of Archaeological Practice, Journal of Archaeological Science, and Ñawpa Pacha: Journal of Andean Archaeology, Quaternary International.

Media Appearance

- 2008 **The Economist.** Interviewed for a technology article about the use of Google Earth in archaeological research at the Chivay obsidian source (4 Sept 2008).

Professional Memberships

- **Institute of Andean Studies, Berkeley, California.**
- **Professional Archaeologists of Peru, number DT-0176**
Registro del Instituto Nacional de Cultura, Lima, Perú.
- **Society for California Archaeology**
- **Society for American Archaeology**

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