

CURRICULUM VITAE

FRANCES MARIKO HAYASHIDA

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EDUCATION

1995 Ph.D., University of Michigan, Dept. of Anthropology
1984 M.A., Stanford University, Dept. of Anthropology
1984 B.A. with distinction, Stanford University, Dept. of Anthropology

EMPLOYMENT

2020-present Director, Latin American and Iberian Institute, University of New Mexico
2019-present Professor, Dept. of Anthropology, University of New Mexico and faculty affiliate, Latin American and Iberian Institute
2008-2019 Associate Professor, Dept. of Anthropology, University of New Mexico and faculty affiliate, Latin American and Iberian Institute
2006-2008 Assistant Professor, Dept. of Anthropology, University of Missouri and faculty affiliate, Conservation Biology Program
1998- 2006 Assistant Professor, Dept. of Anthropology, Pennsylvania State University
1997-1998 Research Fellow, Dept. of Physics, Technical University of Munich, Archaeometry Program
1997 Lecturer, Dept. of Anthropology, University of Virginia (Spring Term)
1996 Archaeologist, Planning Office, Stanford University

RESEARCH GRANTS, FELLOWSHIPS, AND AWARDS

External (PI unless otherwise noted)

2022 National Science Foundation, *Political Power and the Use of Geographic Space*, Doctoral Dissertation Improvement Award, Beau Murphy, co-PI (\$18,192)
2018 Fulbright Award for Teaching and Research, Chile (Dept. of Anthropology, Universidad de Chile; Instituto de Arqueología y Antropología, Universidad Católica del Norte)
2018 Proyectos Excelencia y Proyectos Retos, Agencia Estatal de Investigación (Spain), *Agricultura, comunidad y desierto. Prácticas agrícolas y organización comunitaria en la Atacama prehispánica*, PI César Parcerro-Oubiña. Project co-director with C. Parcerro-Oubiña

- (Consejo Superior de Investigaciones Científicas, Spain), A. Troncoso and D. Salazar (Universidad de Chile) (€30,000)
- 2014-2017 Comisión Nacional de Investigación Científica y Tecnología, Chile (CONICYT-USA 2013-0012), Concurso de apoyo al desarrollo de proyectos de investigación Chile – Estados Unidos, [National Commission for Scientific Research and Technology, Chile, Program to Support Chile-U.S. Research Projects], *Water Management and Agrohydraulic Systems in Desert Environments: the Upper Loa from A.D. 1000-1500*, co-PI with Andrés Troncoso; project co-directors D. Salazar (Universidad de Chile), and C. Parceró-Oubiña (Consejo Superior de Investigaciones Científicas, Spain), (150,000,000 CLP, ca. \$300,000 when awarded)
- 2013-2016 National Science Foundation Catalyzing New International Collaborations Grant, *Agriculture and Empire in the High-Altitude Atacama*, OISE-1265816 (\$68,345)
- 2013-2015 Wenner-Gren Foundation for Anthropological Research, International Collaborative Research Grant, *Agriculture and Empire in the High-Altitude Atacama* co-PI with A. Troncoso, project co-directors C. Parceró-Oubiña and D. Salazar (\$34,233)
- 2013-2014 National Geographic Society Research and Exploration Grant #9296-13, *Agriculture and Empire in the High-Altitude Atacama*, PI with co-PIs C. Parceró-Oubiña, D. Salazar and A. Troncoso (\$25,056)
- 2008-2012 National Science Foundation Archaeology Grant BCS-0838211, *The Ynalche Project: The Political Ecology of Late Prehispanic Agriculture on the North Coast of Peru*, (\$259,048)
- 2008 Wenner-Gren Foundation for Anthropological Research (\$24,997)
- 2000-2004 National Science Foundation Archaeology Grant BCS-0001290, *Late Prehistoric Agriculture on the North Coast of Peru* (\$158,698)
- 2001-2004 National Science Foundation Research Experience for Undergraduates Supplement to BCS-0001290 (\$8,000)
- 2000 National Geographic Society Research and Exploration Grant #6806-00 (\$16,000)
- 2000 Wenner-Gren Foundation for Anthropological Research, Regular Grant (\$10,080)
- 1999 Heinz Family Foundation Grant, Latin American Archaeology Program (\$7,999)
- 1998-1999 Chancellor's Postdoctoral Fellowship Program for Academic Diversity, University of Colorado (awarded but declined)
- 1997-1998 National Science Foundation International Research Fellowship INT-9703587 (\$43,125)
- 1997-1998 German Academic Exchange Service (DAAD) Research Grant (awarded but declined)
- 1995 Wenner-Gren Foundation for Anthropological Research, Regular Grant
- 1994-1995 Dumbarton Oaks (Harvard University), Junior Fellowship
- 1991 Missouri University Research Reactor Training Grant
- 1991 Wenner-Gren Foundation for Anthropological Research, Predoctoral Grant.
- 1989-1990 National Science Foundation Dissertation Improvement Grant (\$7,070)
- 1989-1990 Fulbright-Hays Doctoral Dissertation Research Abroad Fellowship
- 1989-1990 Social Science Research Council International Doctoral Research Fellowship
- 1988 CIC International Studies Fellowship

Internal (PI unless otherwise noted)

- 2018-19 Snead-Wertheim Endowed Lectureship in Anthropology and History, *Water, Wak'as, and Empire: The Political and Ritual Economies of Late Prehispanic Agriculture in the Atacama* (\$4500)
- 2013 Latin American and Iberian Institute, University of New Mexico, Field Research Grant, *Agriculture and Empire in the High-Altitude Atacama* (\$1620)
- 2007 Research Council Grant, University of Missouri (\$7,445) (awarded but declined)
- 2007 Research Council Grant, University of Missouri (\$1,000)
- 2007 Research Council Grant, University of Missouri (\$7,414)
- 2006 University of Missouri, Arts and Sciences Alumni Organization Faculty Incentive Grant (\$1,482)
- 2006 Research Council Grant, University of Missouri (\$1,000)

- 2000 Research and Graduate Studies Office, Pennsylvania State University, Research Grant (Roy C. Buck Fund Award) (\$7,500)
- 1999 Research and Graduate Studies Office, Pennsylvania State University, Research Grant (\$7,000)
- 1983 Summer Field Research Grant, Stanford University, Dept. of Anthropology
- 1983 Summer Field Research Grant, Stanford University, Center for Latin American Studies

PROGRAM DEVELOPMENT GRANTS

(Project Director unless otherwise noted)

- 2022-2026 Foreign Language and Fellowships Program US Department of Education [support for student fellowships to be administered by the LAII] (\$978,784)
- 2020-2023 Undergraduate International Studies and Foreign Language Program grant, International and Foreign Language Education, U.S. Department of Education, co-PD with Zachary Shank Central New Mexico Community College (\$307,999)
- 2015-2017 Frank C. Hibben Charitable Trust, funding for the Hibben-UNM Undergraduate Research and Training Summer Fellowship for Native American, Pacific Islander and Alaska Native students, Frances Hayashida and Michael W. Graves, Albuquerque, NM (\$61,000)

OTHER FUNDING

- 2016 Dumbarton Oaks Pre-Columbian Studies Program, funding for the workshop *Rethinking the Inka: The View from Qollasuyu*, held in Pirque, Chile (\$5000)
- 2013 University of New Mexico, Latin American and Iberian Institute, new course development grant for *The Aztec and Inka Empires* (\$2500)
- 2010 University of New Mexico, Latin American and Iberian Institute, new course development grant for *Conservation and Indigenous People* (\$2,500)
- 2010 University of New Mexico Office of Graduate Studies, Graduate Recruitment Grant (proposal written by F. Hayashida on behalf of the Dept. of Anthropology) (\$1500)
- 2005 Pennsylvania State University, International Programs, Faculty Travel Fund, New Places, New Challenges Award to develop course and study tour, *Strategies for Sustainability, Case Studies from Peru* (\$2,050)
- 2005 Pennsylvania State University Global Fund Travel Grant to develop course and study tour, *Strategies for Sustainability, Case Studies from Peru* (\$1,750)

EDUCATIONAL AWARDS AND FELLOWSHIPS

- 1994 Rackham One-Term Dissertation Fellowship, University of Michigan
- 1992-1993 American Association of University Women, American Fellowship
- 1991 Rackham Merit Fellowship, University of Michigan
- 1985-1990 CIC Minority Fellowship for Graduate Studies in the Social Sciences
- 1984 Phi Beta Kappa, Stanford University

MAJOR RESEARCH INTERESTS

Andean archaeology and ethnohistory, states and empires, humans and the environment, political ecology, political economy, agriculture and water management, craft production, food (beer) production, ethnoarchaeology, archaeometry

FIELD RESEARCH PROJECTS

- Co-director (with C. Parcero-Oubiña (Consejo Superior de Investigaciones Científicas (Spain) and A. Troncoso and D. Salazar (Universidad de Chile)), *Agriculture and Empire in the High-Altitude Atacama*, 2012 - present
- Director, *Proyecto Ynalche*, research on ancient agriculture on the Pampa de Chaparrí, Lambayeque, Peru, July 2008 – July 2009
- Ethnoarchaeological fieldwork on farming and land use, Lambayeque Peru, June-July 2007

- Ethnoarchaeological fieldwork on maize beer (chicha) production, Chulucanas (Piura) and Lambayeque Peru, June 2005 and July 2006
- Director, *Proyecto Ynalche*, research on ancient agriculture on the Pampa de Chaparrí, Lambayeque, Peru, May – July 1999, June - December 2000, June - July 2001
- Ethnoarchaeological fieldwork on traditional pottery making, gourd working and beer brewing, Piura and Lambayeque, North Coast of Peru, July 1997
- Director, excavation of Inka pottery workshops in northern Lambayeque, Peru, October -December 1995
- Field assistant, Tlaltenango Valley Project, Zacatecas, Mexico, directed by J. Andrew Darling, May - June 1993
- Field assistant, survey of obsidian sources in southern Zacatecas and northern Jalisco, Mexico, directed by J. Andrew Darling, July - August 1992
- Director, survey and excavation of Inka period sites, northern Lambayeque, Peru, June 1989 -August 1990 and July - September 1991
- Director, survey of late prehispanic and colonial sites, northern Lambayeque, Peru, pre-dissertation research, June - August 1988
- Field assistant, excavations of a Bronze Age site, Klarafalva, Hungary, directed by John O'Shea, July - August 1987
- Field assistant, survey of sites damaged by road construction and maintenance, Zuni, New Mexico, Zuni Archaeology Program, May - June 1987
- Field assistant, excavations at Batán Grande, Lambayeque, Peru, Sicán Archaeological Project, directed by Izumi Shimada, June - August 1985 and June - August 1986
- Field assistant, excavations at Cahuachi, Nazca, Peru, directed by Helaine Silverman, September - October 1984
- Field assistant, survey and mapping of Inka settlement and associated quarries, Ollantaytambo, Peru, directed by Jean Pierre Protzen, June 1984
- Director, survey of preceramic *puma* sites, Junín, Peru (M.A. thesis research), June-September 1983 and July - August 1984.
- Field assistant, excavations at Panaulauca, Junín, Peru, Junín Prehistoric Ecology Project, directed by John W. Rick, June - August 1981 and June - September 1982
- Field assistant, excavation of Ohlone settlements at Stanford, California, San Francisquito Research Project, directed by John W. Rick and Barbara Bocek. March - June 1981 and March - June 1984.

ADDITIONAL RESEARCH EXPERIENCE

- Paleoethnobotanical analysis, late prehispanic and early colonial sites associated with the sunken agricultural fields of Chilca, Peru in collaboration with Dr. Neil Duncan (University of Missouri) and Dr. Jeffrey Parsons (University of Michigan), June 2011
- Selected participant, National Science Foundation sponsored course, *Methods in Ethnoecology*, taught by Gary Martin and Richard Stepp, July 30 – August 5, 2006
- Archaeometric research on Inka pottery in collaboration with Dr. Ursel Wagner, Dept. of Physics, Technical University of Munich, August 1997-July 1998
- Archival and artifactual research, University Museum, University of Pennsylvania. Study of the Max Uhle archive and collections from Pachacamac. June – August 1995.
- Research Assistant, University of Michigan, Phoenix Memorial Laboratory (Ford Nuclear Reactor). Neutron activation analysis of Mexican obsidian in collaboration with J. Andrew Darling. September 1992 - April 1993.
- Intern, Missouri University Research Reactor. Thin section and neutron activation analysis of Inka pottery, supervised by Michael Glascock and Hector Neff. November 1991 - January 1992.
- Research Assistant, University of Michigan, Museum of Anthropology. Bibliographic research on lithic raw material trade and transport during the Palaeolithic for Robert Whallon. January - April 1992.
- Research Assistant, Stanford University, Dept. of Anthropology. Archaeological database management for John Rick. January - June 1984; December 1984 - May 1985.

PUBLICATIONS

Books

Hayashida, F. A. Troncoso and D. Salazar, eds.

2022 *Rethinking the Inka: Community, Landscape, and Empire in the Southern Andes*. University of Texas Press, Austin.

Peer reviewed articles and chapters

Hayashida, F.

Submitted to volume Fields, Sacrifice, Farmers and the State in the Inka Provinces. In *Technology and the Making of Andean Societies*, edited by B. Sillar. University College of London Press.

Killick, D., and F. Hayashida

Resubmitted Lung-powered copper smelting of the Middle Sicán period on the Pampa de Chaparrí, Lambayeque Department, Peru. *Journal of Archaeological Science*.

Hayashida, F. A. Troncoso and D. Salazar

2022 Introduction to *Rethinking the Inka: Community, Landscape, and Empire in the Southern Andes*. Edited by F. Hayashida, A. Troncoso, and D. Salazar. University of Texas Press, Austin.

Salazar, D., J. Berenguer, V. Castro, F. Hayashida, C. Parcerro-Oubiña, A. Troncoso

2022 Copper rich, water poor: the southern Atacama under Inka rule. In *Rethinking the Inka: Community, Landscape, and Empire in the Southern Andes*, edited by F. Hayashida, A. Troncoso, and D. Salazar. University of Texas Press, Austin.

Sapians, P., V. Figueroa, F. Hayashida, D. Salazar, A. Menzies, C. González, R. Loyola, B. Murphy, J. González, César Parcerro-Oubiña, A. Troncoso

2022 Supergene Copper and the Ancient Mining Landscapes of the Atacama Desert: Refining the Protocol for the Study of Archaeological Copper Minerals through the Case Study of *Pukara* de Turi. *Minerals* 11(12):1402, <https://doi.org/10.3390/min11121402>

Sandor, J., G. Huckleberry, F. Hayashida, C. Parcerro-Oubiña, A. Troncoso, D. Salazar, and C. Ferro

2022 Soils in ancient irrigated agricultural terraces in the Atacama Desert, Chile. *Geoarchaeology* 37(1):96-119. <https://doi.org/10.1002/gea.21834>

Echenique, E., A. Nielsen, F. Ávila, F. Hayashida, M. Uribe, and W. Gilstrap

2021 Interregional interactions across the Southern Andes: Yavi-Chicha ceramic circulation in northern Chile during the late pre-hispanic periods. *Archaeological and Anthropological Sciences* 13, 212 <https://doi.org/10.1007/s12520-021-01451-9>

de Porrás, M.E., Maldonado, A., Hayashida, F.M., Troncoso A., Salazar, D., Parcerro-Oubiña, A., Castro, V.

2021 Socio-environmental dynamics in the Central Atacama Desert (22°S) during the Late Holocene. *Quaternary Science Reviews* 267 <https://doi.org/10.1016/j.quascirev.2021.107097>

Troncoso, A., D. Salazar, C. Parcerro-Oubiña, F. Hayashida, P. Fábrega-Álvarez and P. Larach.

2019 Maquetas incaicas en Chiu-Chiu: paisaje y ritualidad agraria en el Desierto de Atacama. *Estudios Atacameños* 63:3-23. doi.org/10.22199/issn.0718-1043-2019-0019

Hayashida, F.

2019 Inka state pottery production: Insights from characterization studies on the north coast of Peru. In *Ceramics of Indigenous Cultures of South America: Production and Exchange*, edited by M. Glascock, H. Neff, and K. Vaughan. University of New Mexico Press, Albuquerque.

Hayashida, F.

2019 Making connections in *Food, Foraging, and Farming*. In *Pedagogy and Practice in Heritage Studies*, edited by Susan Bender and Phyllis Messenger, pp 198-212. University of Florida Press, Gainesville.

Hayashida, F. and N. Guzman

2018 Leyendo el registro material del gobierno inka: Estilo, política e imperio en la costa norte del Perú. In *El Imperio Inka*, edited by I. Shimada, pp. 617-652. Fondo Editorial Pontificia Universidad Católica, Lima. Spanish translation of Hayashida and Guzman 2015.

Parcerro-Oubiña, C., P.Fábrega-Álvarez, D. Salazar, A. Troncoso, F. Hayashida, M. Pino, C. Borie, E. Echenique

- 2017 Ground to air and back again: Archaeological prospection to characterize prehispanic agricultural practices in the high-altitude Atacama (Chile). *Quaternary International* 435 Part B:98-113. [doi:10.1016/j.quaint.2015.12.050](https://doi.org/10.1016/j.quaint.2015.12.050).
Hayashida, F.
- 2017 *Epilogue*. In *The Archaeology of Human-Environment Interactions: Strategies for Investigating Anthropogenic Landscapes, Dynamic Environments, and Climate Change in the Human Past*, edited by D. Contreras, pp. 259-264. Routledge, London.
- Parcerro-Oubiña, C., P. Fábrega-Álvarez, A. Troncoso, D. Salazar, F. Hayashida, C. Borie, M. Pino
2016 Sistemas agrohídricos de los períodos intermedio tardío y tardío en el Loa superior: El caso de Topaín. *Boletín de la Sociedad Chilena de Arqueología*, 46:23-42.
- Parcerro-Oubiña, C., P. Fábrega-Álvarez, A. Troncoso, D. Salazar, F. Hayashida, A. Güimil-Fariña, P. Mañana-Borrazás, M. Pino and C. Borie
2016 Introduciendo orden en el registro mediante tecnologías no destructivas: experiencias en el estudio de paisajes agrarios prehispanicos en la región de Atacama (Norte de Chile). In *Revalorización de zonas arqueológicas mediante el empleo de técnicas no destructivas*, edited by V. Mayoral Herrera. CSIC, Madrid.
- Hayashida, F. and N. Guzman
2015 Reading the material record of Inka rule: style, polity, and empire on the north coast of Peru. In *The Inka Empire: A Multidisciplinary Approach*, edited by Izumi Shimada, pp. 287-305. University of Texas Press.
- Hayashida, F.M., D. Killick, I. Shimada, W. Häusler, F.E. Wagner, U. Wagner
2014 A pre-Columbian copper alloy smelting furnace: Mössbauer and XRD study of the firing conditions. *Hyperfine Interactions* 224:161-170.
- Huckleberry, G., F. Hayashida and J. Johnson
2012 New insights into the evolution of an intervalley prehistoric irrigation canal system, north coastal Peru. *Geoarchaeology* 27(6):492-520
- Hayashida, F.
2009 Chicha histories: prehispanic chicha production in the Andes and the use of ethnographic and historical analogues. In *Drink, Power, and Society in the Andes*, edited by J. Jennings and B. Bowser, University of Florida Press, Gainesville.
- Hayashida, F.
2008 Ancient beer and modern brewers: ethnoarchaeological observations of maize beer (*chicha*) production in two regions of the north coast of Peru, *Journal of Anthropological Archaeology* 27(2):161-174.
- Hayashida, F.
2006 The Pampa de Chaparrí: water, land, and politics on the north coast of Peru. *Latin American Antiquity* 17(3):243-264.
- Hayashida, F.
2005 Archaeology, ecological history, and conservation. *The Annual Review of Anthropology* 34:43-65.
- Figuerola, A., F. Hayashida
2004 Sitios amurallados en la costa norte del Perú: Observaciones preliminares de Cerro Arena, Pampa de Chaparrí, Lambayeque [Walled sites on the north coast of Peru: preliminary observations on Cerro Arena, Pampa de Chaparrí, Lambayeque]. *Boletín de Arqueología* 8:359-371. Special issue, Identidad y transformación en el Tawantinsuyu y en los Andes coloniales. Perspectivas arqueológicas y etnohistóricas, edited by P. Kaulicke, G. Urton, and I. Farrington. Published in 2005.
- Tellez, S., F. Hayashida
2004 Campos de cultivo prehispanicos en la Pampa de Chaparrí [Prehistoric agricultural fields in the Pampa de Chaparrí]. *Boletín de Arqueología* 8:373-390. Special issue, Identidad y transformación en el Tawantinsuyu y en los Andes coloniales. Perspectivas arqueológicas y etnohistóricas, edited by P. Kaulicke, G. Urton, and I. Farrington.
- Nordt, L., F. Hayashida, T. Hallmark, and C. Crawford
2004 Late prehistoric soil fertility and agricultural production in northwest coastal Peru. *Geoarchaeology*, 19(1):21-46.

- Hayashida, F.
 2003 Leyendo el registro arqueológico del dominio inka: reflexiones desde la costa norte del Perú [Reading the material record of Inka rule: Views from the north coast of Peru]. *Boletín de Arqueología* 7:305-319. Special issue, Identidad y transformación en el Tawantinsuyu y en los Andes coloniales. Perspectivas arqueológicas y etnohistóricas, edited by P. Kaulicke, G. Urton, and I. Farrington.
- Hayashida, F.
 2003 Bridging the gap between archaeology and the physical sciences. *Hyperfine Interactions* 150:7-11.
- Hayashida, F., W. Häusler, U. Wagner
 2003 Technology and organisation of Inka pottery production in the Leche Valley. Part I: study of clays. *Hyperfine Interactions* 150:141-152.
- Hayashida, F., W. Häusler, J. Riederer, U. Wagner
 2003 Technology and organisation of Inka pottery production in the Leche Valley. Part II: study of fired vessels. *Hyperfine Interactions* 150:153-163.
- Hayashida, F., M. Glascock, W. Häusler, H. Neff, J. Riederer, U. Wagner
 2002 Technology and organization of Inka pottery production: archaeometric perspectives. In *Archaeometry 98: Proceedings of the 31st International Archaeometry Symposium Vol. II*, edited by E. Jerem and K. Biro, pp. 573-580. BAR International Series 1043, British Archaeological Reports, Oxford.
- Weiss, K. and F. Hayashida
 2002 KulturCrisis! Cultural evolution going round in circles. *Journal of Evolutionary Anthropology* 11(4):136-141.
- Hayashida, F.
 1999 Style, technology, and administered production: the manufacture of Inka pottery in the Leche Valley, Peru. *Latin American Antiquity* 10(4):337-352.
- Hayashida, F.
 1998 New insights into Inka pottery production. In *Andean Ceramics: Technology, Organization, and Approaches*, edited by Izumi Shimada, MASCA Research Papers, pp. 313-335, Volume 15 supplement, University Museum of Archaeology and Anthropology, University of Pennsylvania, Philadelphia.
- Darling, J. A. and F. Hayashida
 1995 Analysis of obsidian sources in the southern Sierra Madre Occidental, Mexico. *Journal of Radioanalytical and Nuclear Chemistry, Articles*, 196(2):245-254.
- Hayashida, F.
 1994 Producción cerámica en el imperio Inka: Una visión global y nuevos datos. In *Tecnología y organización de la producción de cerámica prehispánica*, edited by Izumi Shimada, pp. 443-475, Fondo Editorial, Pontificia Universidad Católica, Lima.

Non-peer reviewed

- Hayashida, F.
 Submitted How South American domesticates shaped world cuisines. To be published in Chinese in *The Ancient Civilization of the Andes*, exhibit catalog edited by I. Shimada.
- Hayashida, F.
 Submitted Time and resilience: Andean agricultural knowledge and practices in the past and present. To be published in Chinese in *The Ancient Civilization of the Andes*, exhibit catalog edited by I. Shimada.
- Hayashida, F.
 2017 How South American domesticates shaped world cuisines. Published in Japanese in *The Ancient Civilization of the Andes*, exhibit catalog edited by I. Shimada, K. Shinoda, and M. Ono, TBS, Tokyo.
- Hayashida, F.
 2017 Time and resilience: Andean agricultural knowledge and practices in the past and present. Published in Japanese in *The Ancient Civilization of the Andes*, exhibit catalog edited by I. Shimada, K. Shinoda, and M. Ono, TBS, Tokyo.
- Parceró-Oubiña, C., P. Fábrega-Álvarez, C. Ferro-Vázquez, X. Ayan Vila, A. Troncoso Meléndez, D. Salazar Sutil, and F. Hayashida

- 2015 Campañas de trabajo 2013 en el área de las Vegas de Turi (Alto Loa, Chile). *Informes y Trabajos del IPCE* 12:75-94.
Hayashida, F.
- 2015 Beer. In *The Archaeology of Food: An Encyclopedia*, edited by M. Beaudry and K. Metheny, Altamira Press.
Hayashida, F.
- 2015 Chicha. In *The Archaeology of Food: An Encyclopedia*, edited by M. Beaudry and K. Metheny, Altamira Press.
Parcerro-Oubiña, C., P. Fábrega-Álvarez, C. Ferro-Vázquez, C., A. Troncoso Meléndez,, D. Salazar Sutil, and F. Hayashida
- 2014 Paisajes fortificados en el altiplano andino: nuevos trabajos en torno al Pukara de Topaín (segunda región, Chile). *Informes y Trabajos del IPCE* 11, 127-144.
Hayashida, F.
- 2014 La agricultura Sicán y su transformación bajo el dominio chimú e inca: la Pampa de Chaparrí como estudio de caso. In *Cultura Sicán: Esplendor Preincaico de la Costa Norte*, edited by Izumi Shimada, pp. 323-340, Fondo Editorial del Congreso del Perú.
Hayashida, F. and N. Guzman
- 2012 Inka incorporation of the north coast of Peru. Published in Japanese in *Inka Teikoku - Kenkyu no furontia* (translation *Diversity and Unity in the Inka Empire: Current Visions and Issues*), edited by I. Shimada and K. Shinoda, Tokai University Press.
Hayashida, F.
- 2009 Sicán agriculture and its transformations under Chimú and Inka Rule: The Pampa de Chaparrí as a case study. Published in Japanese in *The Golden Capital of Sicán: Precursor of the Inka Empire*, exhibit catalog edited by I. Shimada, pp. 372-380, National Museum of Nature and Science, Tokyo.

In progress

Strawhacker, C. and F. Hayashida

- n.d. Soil quality on a long-term irrigated landscape on the north coast of Peru: A case study from the Pampa de Chaparrí.

VIDEOS

Borie, César and Rocio Romero (directors)

- 2017 Viviendo con los cerros: Comunidades atacameñas en Topaín, Turi y Paniri antes y después del Inka. Professionally produced 24 min. video on Chilean study sites created for outreach and education at the request of the descendant community of Ayquina. Script by C. Borie, F. Hayashida, C. Parcerro-Oubiña, D. Salazar, and A. Troncoso. Mímbrere Producciones, Santiago, Chile.

WEB PUBLICATIONS

Hayashida, F.

- 2003 *Archaeological Methods and Theory. Teaching Statement and Course Artifacts*. Course materials designed for the Society for American Archaeology MATRIX national curriculum project. <http://www.indiana.edu/~arch/saa/matrix/homepage.html> (archived)

SELECTED TECHNICAL REPORTS

Parcerro-Oubiña, C., P. Fábrega-Álvarez, A. Güimil-Fariña, P. Mañana-Borrazás, C. Ferro-Vázquez, A. Troncoso Meléndez, D. Salazar Sutil, F. Hayashida

- 2015 *Paisajes Fortificados en el Altiplano Andino. El Pukara de Topaín. Memoria campaña 2014*. Report submitted to the Ministry of Culture, Dirección General de Bellas Artes y Bienes Culturales, programa Ayudas para Proyectos Arqueológicos en el Exterior, Spain.

Parcerro-Oubiña, C., P. Fábrega-Álvarez, C. Ferro-Vázquez, X. M. Ayán Vila, A. Güimil-Fariña A. Troncoso Meléndez, D. Salazar Sutil, F. Hayashida

- 2014 *Paisajes Fortificados en el Altiplano Andino. El Pukara de Topaín. Memoria campaña 2013.* Report submitted to the Ministry of Culture, Dirección General de Bellas Artes y Bienes Culturales, programa Ayudas para Proyectos Arqueológicos en el Exterior, Spain.
Parcerro-Oubiña, C., P. Fábrega-Álvarez, C. Ferro, A. Troncoso, D. Salazar, F. Hayashida
- 2013 *Paisajes Fortificados en el Altiplano Andino. El Pukara de Topaín. Memoria campaña 2012.* Report submitted to the Ministry of Culture, Dirección General de Bellas Artes y Bienes Culturales, programa Ayudas para Proyectos Arqueológicos en el Exterior, Spain.
Hayashida, F.
- 2010 *Proyecto Arqueológico Ynalche: Informe de la temporada de 2009.* Report submitted to the Instituto Nacional de Cultura, Peru. 264 pages including appendices
Hayashida, F.
- 2009 *Proyecto Arqueológico Ynalche: Informe de la temporada de 2008.* Report submitted to the Instituto Nacional de Cultura, Peru. 202 pages including appendices and 2 oversized map/illustration inserts.
Hayashida, F.
- 2002 *Proyecto Ynalche: Informe de la temporada de 2001.* Report submitted to the Instituto Nacional de Cultura, Peru. 72 pages and 3 oversized map/illustration inserts.
Hayashida, F.
- 2001 *Proyecto Ynalche: Informe de la temporada de 2000.* Report submitted to the Instituto Nacional de Cultura, Peru. 146 pages and 3 oversized map/illustration inserts.
Hayashida, F.
- 2000 *Proyecto Ynalche: Informe de la temporada de 1999.* Report submitted to the Instituto Nacional de Cultura, Peru.
Hayashida, F., E. Reese
- 1997 Prehistoric Artifacts. In *Report of Archaeological Findings at CA-SCL-613, Children's Health Council, Santa Clara County, California.* Report prepared for the Stanford Archaeology Program.
Hayashida, F.
- 1987 *Preliminary assessment of damage to archaeological sites caused by road construction and maintenance.* Report submitted to the Zuni Archaeology Program, Zuni, New Mexico.

BOOK REVIEWS

- 2011 Review of *The Archaeology of Environmental Change: Socionatural Legacies of Degradation and Resilience*, edited by Christopher T. Fisher, J. Brett Hill, and Gary M. Feinman, *Journal of Anthropological Research* 67(2):271-273.
- 2009 Review of *Ancient Tiwanaku* by John W. Janusek, *Journal of Anthropological Research* 65(4):666-667.
- 2005 Review of *Ancient Cuzco: Heartland of the Inca* by Brian Bauer, Special issue (no. 7) of the *Boletín de Arqueología, Pontificia Universidad Católica del Perú (Identidad y transformación en el Tawantinsuyu y en los Andes Coloniales. Perspectivas arqueológicas y etnohistóricas)* edited by P. Kaulicke, G. Urton, and I. Farrington.
- 2001 Review of *Ceramic Production and Distribution in the Chavín Sphere of Influence (North-Central Andes)* by Isabelle C. Druc, *Latin American Antiquity* 12(2):221.
- 1996 Book note on *In Quest of Mineral Wealth: Aboriginal and Colonial Mining and Metallurgy in Spanish America*, edited by Alan K. Craig and Robert C. West. *American Antiquity* 61(3).

DISSERTATION

- 1995 *State Pottery Production in the Inka Provinces.* Ph.D. dissertation, Dept. of Anthropology, University of Michigan.

SEMINARS AND SYMPOSIA ORGANIZED

(* externally funded)

- 2016* *Repensando el Tawantinsuyu desde el Collasuyu*, three-day seminar co-sponsored by Dumbarton Oaks Research Library and Collection, Pre-Columbian Studies Program (Harvard University), CONICYT USA 2013-0012, and the Dirección de Investigación Facultad de Ciencias Sociales Universidad de Chile, May 17-21, Pirque, Chile. Co-organizer with Andrés Troncoso and Diego Salazar.

- 2016 *Rethinking the Inka: The View from the South*, symposium at the 81st Annual Meeting of the Society for American Archaeology, Orlando, Florida, April 2015. Co-chair with Andrés Troncoso and Diego Salazar.
- 2015 *Landscapes of Production: New Research on the Archaeology of Agriculture and Irrigation*. symposium at the 80th Annual Meeting of the Society for American Archaeology, San Francisco, California, April 2015. Co-chair with Diego Salazar, and Andrés Troncoso.
- 2015* *Land, Water and Empire in the High-Altitude Atacama*, Research Team Seminar, April 2015, School of Advanced Research, Santa Fe. Co-chair with César Parcero-Oubiña, Diego Salazar, and Andrés Troncoso.
- 2002 *Life, Land, and Production in Lambayeque, Peru*, symposium at the 67th Annual Meeting of the Society for American Archaeology, Denver, Colorado. Co-organizer with Izumi Shimada.

PRESENTATIONS AT PROFESSIONAL CONFERENCES AND SEMINARS

(* invited)

Hayashida, F.

- 2023* **Discussant.** *Political Economies on the Andean Coast*, comments to be presented at the 88th Annual Meeting of the Society for American Archaeology, Portland, Oregon.
- 2022* **Discussant.** *A más de 50 años de Kosok*, Congreso Nacional de Arqueología, Peru, August 2022. Parcero-Oubiña, C., F. Hayashida, A. Troncoso, D. Salazar, P. Fábrega-Álvarez
- 2020* *Fields, water and the Inka Empire. Prehispanic agricultural practices in the highlands of the Atacama Desert (Rio Salado basin, Northern Chile)*. Accepted paper, World Archaeological Congress-9 2020, Prague, Czechoslovakia. [Note: Meeting cancelled due to COVID-19 outbreak]
- Murphy, B., M. Pino, F. Hayashida, C. Parcero-Oubiña, D. Salazar, A. Troncoso
- 2020 *Imperial-planned, Indigenous-conglomerated, or something in-between: Investigating the layout of an Inka administrative center in Northern Chile*. Accepted paper, 85th Annual Meeting of the Society for American Archaeology, Austin, Texas. [Note: Meeting cancelled due to COVID-19 outbreak]
- Troncoso, A., D. Salazar, C. Parcero-Oubiña, P. Fábrega, F. Hayashida
- 2019 *Arte rupestre, ontología y cosmopolítica durante el período inkaico en la subregión del Río Salado, desierto de Atacama, Chile*. Paper presented at the XX Congreso Nacional de Arqueología Argentina, Córdoba.
- Hayashida, F., D. Salazar, A. Troncoso, C. Parcero, P. Fábrega, C. González, M. Pino, S. Magee
- 2019* *Water, wak'as, copper and empire in the high-altitude Atacama*, paper presented at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque, New Mexico.
- Sandor, J., G. Huckleberry, and F. Hayashida
- 2019 *Anthropogenic soil change in ancient irrigated agricultural terraces, Atacama Desert, Chile*. Poster presented at the Soil Science Society of America International Soils meeting.
- Huckleberry, G., J. Sandor and F. Hayashida
- 2018 *Prehistoric irrigated soils in the high Atacama of Chile: Preliminary results from a terraced agricultural complex*. Paper presented at the 130th Annual Meeting of the Geological Society of America, Indianapolis, Indiana, November 2018.
- Pino, M., N. La Mura, C. Parcero-Oubiña, P. Fábrega-Álvarez, F. Hayashida, A. Güimil-Fariña, C. González
- 2018 *Los "otros" habitantes de este desierto: Reflexiones en torno a aspectos rituales/ceremoniales en espacios productivos y domésticos en la cuenca alta del río Salado durante el Período Intermedio Tardío y Tardío*. Un recorrido por los sitios de Topaín, Turi y Paniri. Paper presented at the 56th International Congress of Americanists, Salamanca, Spain, July 2018.
- Parcero Oubiña, C., A. Troncoso, D. Salazar, P F. Hayashida, Fábrega-Álvarez, C. Borie, M. Pino
- 2018* *Agriculture, communities and the landscape in the prehispanic period in the highlands of the Atacama Desert (Rio Salado, Northern Chile)*, 24th Annual Meeting of the European Association of Archaeologists, Barcelona, Spain.
- Hayashida, F.
- 2017* **Discussant in** the symposium *Landscapes of change: integrated socio-ecological histories in the Chicama Valley, Peru*, 82nd Annual Meeting of the Society for American Archaeology, Vancouver, B.C.
- Killick, D. and F. Hayashida

- 2017* *Lung-powered copper smelting on the Pampa de Chaparrí, Lambayeque Department, Peru*. Paper presented at the 82nd Annual Meeting of the Society for American Archaeology, Vancouver, B.C., March 2017.
- Troncoso, A., D. Salazar, C. Parcerro-Oubiña, F. Hayashida, P. Fábrega, M. Pino and C. Borie
 2016 *Cultivando la tierra, construyendo una comunidad: prácticas agrícolas, relaciones sociales y no humanos durante el Período Intermedio Tardío (Río Salado, Desierto de Atacama, Chile)*. Paper presented at the XIX Congreso Nacional de Arqueología Argentina, Tucuman, Argentina, August 2016.
- Salazar, D. J. Berenguer, V. Castro, F. Hayashida, C. Parcerro-Oubiña, A. Troncoso
 2016 *Copper rich, water poor: the southern Atacama under Inka rule*. Paper presented at *Repensando el Tawantinsuyu desde el Collasuyu*, seminar co-sponsored by Dumbarton Oaks Research Library and Collection, Pre-Columbian Studies Program (Harvard University), CONICYT USA 2013-0012, and the Dirección de Investigación Facultad de Ciencias Sociales Universidad de Chile, Pirque, Chile, May 2016
- Salazar, D. A. Troncoso, F. Hayashida, C. Parcerro-Oubiña
 2016 *Copper rich, water poor: the southern Atacama under Inka rule*. Paper presented at the 81st Annual Meeting of the Society for American Archaeology, Orlando, April 2016.
- Hayashida, F., C. Parcerro-Oubiña, A. Troncoso, D. Salazar, P. Fábrega-Álvarez
 2016 *Desert fields and empire in the high-altitude Atacama, Chile*. Paper presented at the 56th Annual Meeting of the Institute of Andean Studies, Berkeley, January 2016.
- Hayashida, F., D. Salazar, A. Troncoso, C. Parcerro-Oubiña, P. Fábrega-Álvarez, M. Pino, C. Borie, E. Echenique
 2015* *Paisajes (Agri)culturales durante los periodos tardíos en la cuenca del río Salado*. Paper presented at *Seminarios de Arqueología del Desierto de Atacama*, Instituto de Arqueología y Antropología, Universidad Católica del Norte, San Pedro de Atacama, Chile, November 2015.
- Troncoso, A., Salazar, D., F. Hayashida, C. Parcerro, P. Fábrega, M. Pino, and C. Borie
 2015 *Manejo del agua y sistemas agrícolas en la subregión del río Salado entre el Período Intermedio Tardío y Tardío*. Paper presented at the 20th Congress of Chilean Archaeology, Concepción, Chile, October 2015.
- Echenique, E., F. Avila, F. Hayashida, A. Nielsen
 2015 *La cerámica Yavi-Chicha, sus estilos tecnológicos y prácticas de producción y circulación en las cuencas del río Loa y Salar de Atacama: hacia una mirada circumpunena*. Paper presented at the 20th Congress of Chilean Archaeology, Concepción, Chile, October 2015.
- Hayashida, F., C. Parcerro-Oubiña, D. Salazar, A. Troncoso
 2015 *Feeding empires: perspectives from the north coast of Peru and the Atacama Desert in Chile*. Paper presented at *Technology: Ideology, Economics and Power in the Andes*. University College London, Institute of Archaeology, June 2015.
- Salazar, D., F. Hayashida, A. Troncoso, C. Parcerro-Oubiña, P. Fábrega, C. Borie, M. Pino
 2015 *Agricultura, manejo del agua y dinámica política en el desierto de Atacama entre el Período Intermedio Tardío y Tardío*. Paper presented at the Primeras Jornadas sobre Altiplano Sur: Miradas Disciplinarias, Tilcara, Argentina, May 2015.
- Hayashida, F., A. Troncoso, D. Salazar, C. Parcerro-Oubiña, P. Fábrega-Álvarez
 2015 *Agriculture and empire in the high-altitude Atacama*. Paper presented at the 80th Annual Meeting of the Society for American Archaeology, San Francisco.
- Sandor, J. A., G. Huckleberry, and F. Hayashida
 2015 *Soils in Ancient Irrigated Agricultural Terraces in the High-Altitude Atacama Desert, Chile*. Working Paper for the School for Advanced Research (SAR) Research Group Seminar “Land, Water and Empire in the High-Altitude Atacama” Santa Fe, NM
- Hayashida, F.
 2015 *Inka agriculture and water management*. Working Paper for the School for Advanced Research (SAR) Research Group Seminar “Land, Water and Empire in the High-Altitude Atacama”, Santa Fe, NM
- Troncoso, A., F. Hayashida, D. Salazar C. Parcerro-Oubiña and P. Fábrega-Álvarez
 2015 *Water management and agriculture in Atacama Desert: the politics of communities between the Late Intermediate and Inka Periods (A.D. 900 - 1530)*. Paper presented at the 43rd Annual Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory, Vanderbilt University, Nashville.
- Troncoso, A., D. Salazar, F. Hayashida, C. Parcerro-Oubiña and P. Fábrega-Álvarez

- 2014 *Large-scale prehistoric agriculture in the Atacama Desert: from community specialization to state control*. Paper presented at the XVII UISPP World Congress, Burgos (Spain).
- Parceró-Oubiña, C., A. Güimil-Fariña, P. Mañana-Borrazás, P. Fábrega-Álvarez, C. Borie, M. Pino, F. Hayashida, A. Troncoso and D. Salazar
- 2014a *Affordable, low-cost techniques for the documentation of cultivation structures in the arid Atacama area (N. Chile)*. Paper presented at the XVII UISPP World Congress, Burgos (Spain).
- 2014b *A cost and time efficient approach for the documentation of cultivation structures in the arid Atacama area (N. Chile)*. Paper presented at the Aerial Archaeology Research Group Conference 2014, Dublin (Ireland).
- Hayashida, F.
- 2014* *Water management and conflicts in the Andes: ancient practices, modern applications*. Paper presented at *Tradeoffs and Sustainability*, sponsored seminar, Amerind Foundation, April 2014.
- Hayashida, F.
- 2014* **Discussant**, *Student Futures Part 1: Surviving and Thriving as a Student*, forum sponsored by the Student Affairs Committee of the Society for American Archaeology, 79th Annual Meeting of the Society for American Archaeology, Austin.
- Hayashida, F.
- 2014* **Discussant** in the symposium *Correlation is not Enough: Building Better Arguments in the Archaeology of Human-Environment Interaction*, 79th Annual Meeting of the Society for American Archaeology, Austin.
- Parceró Oubiña, C., P. Fábrega-Álvarez, A. Troncoso, D. Salazar, M. Pino, C. Borie, F. Hayashida
- 2013 *Seeing the full picture from above: Understanding a complex pattern of fields and irrigation channels in the highlands of Atacama Chile*. Annual Meeting of the Aerial Archaeology Research Group Amersfoort, The Netherlands, September 26-28.
- Hayashida, F.M., D. Killick, I. Shimada, W. Häusler, F.E. Wagner, and U. Wagner
- 2013 *A pre-Columbian copper alloy smelting furnace: Mössbauer and XRD study of the firing conditions*. Poster presented at the 78th Annual Meeting of the Society for American Archaeology, Honolulu, Hawaii.
- Hayashida, F., W. Häusler, F. Wagner and U. Wagner
- 2012 *A pre-Columbian copper smelting furnace: Mössbauer and XRD study of the firing conditions*. Paper presented at the XIII Latin American Conference on the Applications of the Mössbauer Effect, Medellín, Colombia.
- Killick, D. and F. Hayashida
- 2012 *Lung-powered copper smelting of the Sicán Period (900-1375 CE), North Coastal Peru*. Paper presented at the 39th International Symposium on Archaeometry, Leuven, Belgium.
- Hayashida, F.
- 2012* *Archaeology and the wider world*. Paper presented at the 77th Annual Meeting of the Society for American Archaeology, Memphis, Tennessee in the sponsored symposium “Lessons from the Trenches”: *The Pedagogy of Archaeology and Heritage*
- 2011* *Archaeology and environmental justice*. Paper presented at the 34th Annual Meeting of the Society of Ethnobiology in Columbus, Ohio in the symposium *International Ethnobiological and Ecological Perspectives on Environmental Justice*
- 2011* *Politics, food, and farming on the late prehispanic north coast of Peru*. Paper presented at the 76th Annual Meeting of the Society for American Archaeology, Sacramento, California.
- Strawhacker, C. and F. Hayashida
- 2011 *Prehispanic irrigated agricultural soils on the north coast of Peru: the effects of different land use intensities on agricultural soil quality*. Paper presented at the 76th Annual Meeting of the Society for American Archaeology, Sacramento, California.
- 2010 *Prehispanic irrigated soils on the north coast of Peru: preliminary results from soil sampling on agricultural fields*. Poster presented at the 75th Annual Meeting of the Society for American Archaeology, St. Louis, Missouri.
- Hayashida, F.
- 2009* *The Proyecto Ynalche: late prehispanic political economy on the north coast of Peru*. Paper presented at the 74th Annual Meeting of the Society for American Archaeology, Atlanta, Georgia.

- 2008* *El Proyecto Ynalche: la ocupación prehispánica tardía de la Pampa de Chaparrí* [The Ynalche Project: the late prehispanic occupation of the Pampa de Chaparrí]. Paper presented in Spanish at the conference *Proyecto Arqueológico Sicán: 30 años revelando la cultura ancestral de Lambayeque*, Chiclayo, Peru.
- 2007* *The political ecology of water on the north coast of Peru*. Paper presented at the 72nd Annual Meeting of the Society for American Archaeology, Austin, Texas.
- 2006* **Discussant**, *Craft production, exchange, and provenance analysis of Andean ceramics: current research and future directions*, symposium presented at the 71st Annual Meeting of the Society for American Archaeology, San Juan, Puerto Rico.
- 2005 *Chicha (maize beer) production on the north coast of Peru: ethnoarchaeological observations from Piura*. 24th Northeast Conference on Andean Archaeology and Ethnohistory, Washington DC.
- 2005* **Discussant** in *Professional development and advancement strategies in the applied and academic spheres*, a sponsored forum presented at the 70th Annual Meeting of the Society for American Archaeology, Salt Lake City, Utah.
- Hayashida, F., L. Nordt, T. Hallmark
- 2004* *Soil fertility, water management, and agriculture on the north coast of Peru*. Paper presented in the sponsored symposium *Geoarchaeology and Complex Societies* at the 69th Annual Meeting of the Society for American Archaeology, Montreal, Quebec.
- Hayashida, F.
- 2004* **Discussant** in *Introducing MATRIX: making archaeology teaching relevant in the XXI century*, a sponsored forum presented at the 69th Annual Meeting of the Society for American Archaeology, Montreal, Quebec.
- 2003* *Beer, politics, and society in the Inka Empire*. Paper presented in the opening session of the 68th Annual Meeting of the Society for American Archaeology, Milwaukee, Wisconsin.
- 2002* *Leyendo el registro arqueológico del dominio inka* [Reading the material record of Inka rule]. Paper presented at the Fourth Annual International Archaeology Symposium, Pontificia Universidad Católica del Perú, *Identidad y transformación en el Tawantinsuyu y en los Andes Coloniales. Perspectivas arqueológicas y etnohistóricas*.
- 2002* **Discussant** in *The archaeology of workshops: the spatial organization and social relations of production*, a forum presented at the 67th Annual Meeting of the Society for American Archaeology, Denver, Colorado.
- 2002 Hayashida, F., A. Freeburg.
Life, land, and water on the Pampa de Chaparrí. Poster presented at the 67th Annual Meeting of the Society for American Archaeology, Denver, Colorado.
- 2000* *Chimú and Inka agriculture in northern Lambayeque*. Paper presented at the 65th Annual Meeting of the Society for American Archaeology, Philadelphia, Pennsylvania.
- 1999* **Discussant**, symposium on ceramic ecology organized by Charles Kolb and Louana Lackey, 98th Annual Meeting of the American Anthropological Society, Washington, D.C.
- 1999 Häusler, W., F. Hayashida, T. Hutzelmann, E. Murad, I. Shimada, H. Tschauer, F. E. Wagner, U. Wagner
Firing of clays studied by Mössbauer spectroscopy and X-Ray diffraction. Poster presented at the meeting *Mineralogy and Ceramics, Ancient and Modern* organized by the Applied Mineralogy Group of the Mineralogical Society of Great Britain and Ireland, London
- 1998* *State pottery production in the Inka provinces: archaeometric perspectives*. Paper presented at the 97th Annual Meeting of the American Anthropological Association, Philadelphia, Pennsylvania.
- 1998 *Technology and organization of Inka pottery production: neutron activation analysis and Mössbauer spectroscopy studies*. Paper presented at the 31st International Symposium on Archaeometry, Budapest, Hungary.
- 1998* *The Inka occupation of the Leche Valley*. Paper presented at the 63rd Annual Meeting of the Society for American Archaeology, Seattle, Washington.
- 1998 *Chicha, pots, and gourds: ethnoarchaeological observations from the North Coast of Peru*. Paper presented at the Institute of Andean Studies Meetings, Berkeley, California.
- 1996* *State pottery production in the Inka provinces*. Paper presented at the 95th Annual Meeting of the American Anthropological Association, San Francisco, California.

- 1996* *State pottery production in the Inka empire*. Paper presented at the Chacmool Conference, “The Archaeology of Innovation and Science”, Calgary, Alberta.
- 1995* *Administered craft production in the Inka state*. Paper presented at the 60th Annual Meeting of the Society for American Archaeology, Minneapolis, Minnesota.
- Darling, J. A. and F. Hayashida
- 1994* *Analysis of obsidian sources in the southern Sierra Madre Occidental, Mexico*. Paper presented at the Symposium on Nuclear Archaeology, American Nuclear Society Winter Meeting, Washington, D.C., November 14, 1994.
- Hayashida, F.
- 1993* *Pottery production in the Inka provinces*. Paper presented at the 58th Annual Meeting of the Society for American Archaeology, St. Louis, Missouri.
- 1991* *Inka pottery production in Lambayeque, Peru*. Paper presented at the 56th Annual Meeting of the Society for American Archaeology, New Orleans, Louisiana.
- 1984* *Preceramic settlement patterns of the Junín puna, Peru*. Paper presented at the 49th Annual Meeting of the Society for American Archaeology, Portland, Oregon.

PUBLIC AND INVITED LECTURES (since 2006)

- 2021 Hayashida, Frances, César Parcero-Oubiña, Diego Salazar and Andrés Troncoso
Water, copper, wak'as and empire: Late prehispanic political ecology in the high-altitude Atacama Desert. Dumbarton Oaks (Harvard University), Pre-Columbian Studies program, November 4, 2021.
- 2021 *Water, copper, wak'as and empire in the high-altitude Atacama*. Albuquerque Archaeological Society, January 19, 2021.
- 2019 *Meals for mountain beings: late prehispanic ritual deposits in the high-altitude Atacama*. 2019 Snead-Wertheim Lecture, Depts. of Anthropology and History, University of New Mexico, September 5, 2019.
- 2018 *Agua, tierra, y imperio en los Andes antiguos: casos de estudio de la costa norte del Perú y Atacama, Chile*. Dept. of Anthropology, Universidad Católica, Santiago, Chile, August 22, 2018.
- 2018 *Cerveza antigua y cerveceras modernas: la etnoarqueología de chicha de maíz en la costa norte del Perú*. Dept. of Anthropology, Universidad de Chile, Santiago, Chile, August 20, 2018.
- 2016 *Introducing the Inka Empire*, Central New Mexico Community College, September 27, 2016
- 2016 *Desert fields and empire: late prehispanic agriculture in the high-altitude Atacama*, Dept. of Anthropology, University of Washington, February 26, 2016
- 2013 *Agua, tierra, y imperio en la costa norte del Peru*. Dept. of Anthropology, Universidad de Chile, July 30, 2013
- 2013 *Ancient beer and modern brewers: the ethnoarchaeology of maize beer (chicha) on the north coast of Peru*. Southwest Seminars, Santa Fe, May 13, 2013
- 2012 *Cerveza antigua y cerveceras modernas: la etnoarqueología de la producción de cerveza de maíz (chicha) en la costa norte del Perú*. Instituto de Ciencias del Patrimonio, Santiago de Compostela, Spain, March 15, 2012.
- 2009 *La etnoarqueología de la producción de chicha en la costa norte del Perú*. Archaeology program, Pontificia Universidad Católica del Perú, April 20, 2009
- 2008 *Water, land, and politics on the late prehispanic north coast of Peru*. Dept. of Anthropology, University of Chicago, May 5, 2008
- 2007 *Modern brewers and ancient beer: ethnoarchaeological observations on maize beer (chicha) production from the north coast of Peru*. Dept. of Anthropology, University of Illinois Urbana-Champaign, and the Illinois Transportation Archaeological Research Program, April 5, 2007

CAMPUS AND DEPARTMENTAL TALK (since 2006)

- 2018 *Chicha: the beer that fueled an empire*. Introduction to *chicha* (Andean maize beer) brewing at fundraiser for UNM's Engineers without Borders, April 7, 2018.
- 2017 *Discovering an empire in Chile's Atacama Desert*, UNM STEM University, April 11, 2017
- 2015 *Humans and the environment in the late prehispanic Atacama Desert*, Earth and Planetary Sciences, University of New Mexico, January 30, 2015.

- 2013 *Water, land, and empire in the ancient Andes*. Latin American and Iberian Institute, University of New Mexico, September 26, 2013
- 2012 *Ancient beer and modern brewers: the ethnoarchaeology of maize beer (chicha) on the north coast of Peru*. UNM Anthropology Graduate Student Union, January 20, 2012
- 2006 *Modern brewers and ancient beer: ethnoarchaeological observations on maize beer (chicha) production from the north coast of Peru*. Anthropology Students Association, University of Missouri, November 10, 2006

COURSES TAUGHT

Graduate seminars

Current Debates in Archaeology

Anthropological Proposal Writing

Creando el Mundo Material: Enfoques Arqueológicos de la Tecnología (Universidad de Chile, Universidad Católica del Norte, Chile)

Complex Societies

Combined graduate/undergraduate courses

South American Archaeology

Conservation and Indigenous People

Human Impacts on the Environment: Archaeological Perspectives

Undergraduate courses

Career Planning and Professionalization

Food, Foraging, and Farming (undergraduate capstone)

World Archaeology (online course)

Archaeological Method and Theory (previously taught as *Fundamentals of Archaeology*)

Strategies in Archaeology (previously taught as *Archaeological Methods, Theory, and Practice*)

Strategies for Sustainability: Case Studies from the Andes (Honors course co-taught with Dr. Heather Karsten with study tour to Peru (Penn State))

The Intellectual History of Archaeology (Writing Across the Curriculum course)

People and Cultures of the Andes

The Rise and Fall of the Inka Empire

Inka Technology and Culture (Freshman seminar)

Crafts and Crops: Production in Ancient Societies

ADDITIONAL TEACHING EXPERIENCE AND HONORS

Guest professor, *Creando el Mundo Material: Enfoques Arqueológicos de la Tecnología*, graduate seminar, Dept. of Anthropology, Universidad de Chile, September 2018

Guest professor, *Creando el Mundo Material: Enfoques Arqueológicos de la Tecnología*, graduate seminar, doctoral program Instituto de Arqueología y Antropología, Universidad Católica del Norte, San Pedro de Atacama, Chile, December 2016

Nominated for Outstanding Online Teacher of the Year for Anthropology 220, World Archaeology, 2014
Course Designer for *Archaeological Methods, Theory, and Practice* for MATRIX a national archaeology curriculum project sponsored by the Society for American Archaeology and funded by the National Science Foundation, 2003.

Study Leader, Smithsonian Study Tours and Seminars, *The Legacy of the Inka*, June 1996, September 1996

Study Leader, Smithsonian Study Tours and Seminars, *In the Wake of Darwin: Patagonia to Peru*, March 1996

Acting Instructor, Stanford University, Dept. of History, *The World Outside the West*. January - March 1988.

ADVISING

Post-doctoral scholar supervision

Lourdes Iniesta (Spring 2020 – Fall 2020)

Current students

Dissertation committee chair

University of New Mexico: Beau Murphy, Michael Grooms (co-chair with James Dixon)
Universidad Autónoma de Barcelona: Pablo Mendez-Quiróz (co-chair with Calogero Santoro)

PhD advisor (students who have not yet formed a committee)

University of New Mexico: Mariana Lujan Sanders

Dissertation committee member

University of New Mexico: Joseph Birkmann, Thatcher Rogers, Katherine Peck
Southern Illinois University: Rafael Segura

Master's advisor

University of New Mexico: Emily Hayes-Rich and Rebecca Baisden

Students who have completed their degrees

Dissertation committee chair

Davenport, James

2021 *Hand of the Potter, Hand of the State: Pottery Production and Control in Tavantinsuyu*. University of New Mexico.

Esther Echenique, co-chair with David Killick

2019 *Social Interaction, Integration, and Alliances: Yavi-Chicha Ceramic Production and Circulation in the Border Region of Bolivia, Argentina, and Chile A.D. 1000-1550*. University of Arizona.

Caroline Gabe, co-chair with Emily Jones

2019 *Seventeenth-Century Spanish Colonial Identity in New Mexico: A Study of Identity Practices through Material Culture*. University of New Mexico.

Dissertation committee member

Dombrosky, Jonathan

2021 *Effects of Environmental Change on Ancestral Pueblo Fishing in the Middle Rio Grande*. University of New Mexico.

Sturm, Jennie

2019 *Using Archaeological Remote Sensing to Evaluate Land Use and Constructed Space in Chaco Canyon*. University of New Mexico.

Cervantes, Gabriela

2019 *The Archaeology of Intermediate Social Units in Sicán: Districts and Neighborhoods*. University of Pittsburgh.

Jordan, Jillian

2019 *Pottery and Practice in the Late to Terminal Classic Maya Lowlands: Case Studies from Uxbenká and Baking Pot, Belize*. University of New Mexico.

Drake, B. Lee

2012 *New Paleoclimate Reconstruction Techniques in Archaeology: Applications in Greece, New Mexico, and Portugal*. University of New Mexico.

Duncan, Neil

2010 *Paleoethnobotany of Buena Vista: A Case Study of Ritual Feasting in Late Preceramic Peru*, University of Missouri.

Montenegro, Jorge

2010 *Interpreting Cultural and Sociopolitical Landscapes in the Upper Piura Valley, Far North Coast of Perú (1100 B.C.- A.D. 1532)*, Southern Illinois University

Burgett, Jessica P.

2006 *El Paso Polychrome in the Casas Grandes Region, Chihuahua, Mexico: Ceramic Exchange between Paquime and the Jornada Mogollon*, Pennsylvania State University

Vega-Centeno Sara-Lafosse, Rafael

2005 *Ritual and Architecture in a Context of Emergent Complexity: A Perspective from Cerro Lampay, a Late Archaic Site in the Central Andes*, University of Arizona

Gutierrez, Gerardo

2002 *The Expanding Polity: Patterns of the Territorial Expansion of the Post-Classic Señorío of Tlapa- Tlachinollan in the Mixteca-Nahuatl-Tlapaneca Region of Guerrero*, Pennsylvania State University

Schulenberg, Janet K.

2002 *The Point Peninsula to Owasco Transition in Central New York*, Pennsylvania State University

Usher, Bethany M.

2000 *A Multistate Model of Health and Mortality for Paleodemography: Tirup Cemetery*, Pennsylvania State University

Master's advisor

University of New Mexico: James Davenport, Beau Murphy, Shelby Magee, Heidi Pierce, Madeline Scheintaub (co-advisor with Emily Jones)

Master's committee member

University of New Mexico: Deborah Sposito, Grace Smith (both in Latin American Studies); Katherine Peck, Abigail Judkins, Thatcher Rogers (archaeology); Cassandra Ferriola, Adesbah Foguth, Alicia Becenti (Public Archaeology)

Honors advisor

Pennsylvania State University: Melissa Paugh, Adam Freeburg, Colleen Strawhacker (Anthropology, all archaeology); Laura Rosell (cultural anthropology)

Honors thesis reader

University of New Mexico: Samantha Doyle (Museum Studies)

MEDIA COVERAGE AND OUTREACH

[How to farm in the world's driest desert](#) Archaeology

[Deserted field systems of the Atacama](#) Past Horizons

[Drones map Chile agricultural overhaul after Inca invasion](#) Environmental Monitor

[Archaeologist abroad: UNM professor studies ancient agriculture and ritual practices in Chile's Atacama Desert](#), video for UNM's ADVANCE program

Consultant, PBS Kids series *Let's Go Luna*, episodes *The Potato King* and *The Charango Kid* (2019)

PROFESSIONAL SERVICE

Service to the profession

- Editorial Board, *Latin American Antiquity*, 2020-present
- External reviewer, promotion and tenure, 2010, 2011, 2017, 2022
- Cheryl L. Wase Memorial Scholarship Committee, Society for American Archaeology, 2017-2019 (Chair in 2018-2019)
- Excellence in Latin American and Caribbean Archaeology Award Committee, Society for American Archaeology, 2018-2021

- Associate Editor, *Journal of Anthropological Research*, 2015 – present
- Editorial Board, *The Archaeology of Food*, publication series edited by Mary Beaudry and Karen Metheny, University of Alabama Press, 2016-2021
- Task force to select new co-editors of Latin American Antiquity, Society for American Archaeology, 2012
- Scientific Committee, 7th World Archaeological Congress, 2012
- Committee on the Americas, Society for American Archaeology, 2005 - 2010
- Editorial Board, Society for American Archaeology Press, 2005 - 2008
- Task Force on Diversity, Society for American Archaeology, 2004 - 2005
- Manuscript reviews for *American Antiquity*, *American Anthropologist*, *Andean Past*, *Chungara*, *Current Anthropology*, *Fieldiana*, *Latin American Antiquity*, *Journal of Anthropological Archaeology*, *Journal of Anthropological Research*, *Journal of Archaeological Method and Theory*, *Journal of Archaeological Research*, *Journal of Archaeological Science*, *Journal of the World Archaeological Congress*, *Ñanpa Pacha*
- Research proposal reviews for the National Science Foundation (Archaeology, Major Equipment, CAREER, Geomorphology and Land Use Dynamics), the National Geographic Society (Committee for Research and Exploration, Waite Grants), the Wenner-Gren Foundation for Anthropological Research, CONICYT (Comisión Nacional de Investigación Científica y Tecnológica) Chile, Sigma Delta Epsilon/ Graduate Women in Science, UNM Advance Women in STEM awards

Service to the University of New Mexico

- Promotion Committee, Dr. Michelle Kells, Dept. of Chicana and Chicano Studies, 2022-2023
- Mentor, *Fostering Research Expansion in the Social Sciences and Humanities (FRESSH)*, Office of the Vice President for Research, March – December 2022
- Panelist, *Promotion Planning*, UNM Advance, April 29, 2022
- Panelist, Researchers Panel, *Team Research Symposium*, Interdisciplinary Science Co-op and UNM Grand Challenges, April 19, 2022
- Panelist, *Communicating Science: How and Why*, UNM Advance, October 25, 2021
- Promotion Committee, Dr. Heather Edgar, Dept. of Anthropology, 2020 - 2021
- Promotion Committee, Dr. Melinda Morgan, Dept. of Geography, 2020-2021
- Panelist, *Multiple Paths to Excellence: Promotion to Professor*, UNM Advance, February 21, 2020
- Mentoring Committee, Dr. Kari Schleher, Dept. of Anthropology, 2020 – present
- UNM Fulbright Committee, 2019 - present
- Search Committee, Curator of Archaeology, Department of Anthropology and the Maxwell Museum of Anthropology, 2019-20
- Undergraduate Director, Dept. of Anthropology, 2019- 2020
- Undergraduate Advisor, Archaeology Subfield, Dept. of Anthropology 2019- 2020, Spring 2011
- Interdisciplinary Committee on Latin American Studies (ICLAS), 2019- 2020
- Snead-Wertheim Endowed Lectureship selection committee, 2018-2020 2021-2022, (Chair in 2018-19 and 2021-2022)
- Search Committee, faculty position in Evolutionary Anthropology, 2018-19
- Grants and Awards Committee, Latin American and Iberian Institute, Fall 2009, Spring 2011, Fall 2016 – Spring 2018
- Archaeology Subfield Convenor, Spring 2017-Fall 2018
- Chair's Advisory Group, Dept. of Anthropology, Summer 2012 – Summer 2015, Spring 2017-Fall 2018, Fall 2019 to present
- Graduate Director, Dept. of Anthropology, Fall 2012-Summer 2015
- Graduate Advisor, Archaeology Subfield, Dept of Anthropology, Fall 2011 – Summer 2015
- Resource Allocation Committee, Dept. of Anthropology, Fall 2011

- Latin American and Iberian Institute, Executive Committee, Fall 2011 – Spring 2013
- Search Committee, Ethnology Position, Department of Anthropology, Fall 2010-Spring 2011
- Master's Exam Committee, Department of Anthropology (Archaeology), 2009-2011

Service to the University of Missouri

Member, Dept. of Anthropology Committees: Graduate Studies (2007-2008), Casts/Skeletal Collections (2006-2007), Awards/Distinctions (2006-2007), Curriculum (2006-2008), Lectures (2006-2007), Chair's Advisory (2007-2008), Undergraduate Studies (2007-2008)

Service to the Pennsylvania State University

Advisory Board, Science, Medicine and Technology in Culture initiative of the Rock Ethics Institute, College of Liberal Arts, 2004-2005

Faculty Steering Committee, Interinstitutional Consortium on Indigenous Knowledge, design and implementation of survey on Indigenous knowledge perspectives in the classroom, 2004

Advisory Committee, College of Liberal Arts, Diversity Strategic Plan 1999-2000

Various committees, Dept. of Anthropology, (Museum Committee, Archaeology Search Committee, Undergraduate Curriculum Committee), 1998-2005

PROFESSIONAL MEMBERSHIPS

Latin American Studies Association

Society for American Archaeology

Institute of Andean Studies

Register of Professional Archaeologists