

CURRICULUM VITAE

Randall Haas

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EDUCATION

Ph.D., Anthropology, The University of Arizona, 2014. Dissertation Title: “Forager Mobility, Constructed Environments, and Emergent Settlement Hierarchy: Insights from Altiplano Archaeology.”

M.A., Anthropology, Northern Arizona University, May 2003 (*with distinction*). Thesis Title: “The Social Implications of Basketmaker II Cordage Style Distribution.”

B.A., Anthropology, Northern Arizona University, May 2001 (*magna cum laude*)

PROFESSIONAL APPOINTMENTS

2017-present Assistant professor, University of California Davis Department of Anthropology.

2016-2017 Postdoctoral research associate, University of Wyoming Department of Anthropology.

2014-2016 Postdoctoral research associate, University of Maryland Department of Anthropology.

MAIN AREAS OF RESEARCH

archaeology, evolutionary ecology, hunter-gatherers, foragers, high-elevation adaptation, cooperative hunting, origins of agriculture and pastoralism, quantitative methods, agent-based modeling, spatial analysis, network analysis, ethnoarchaeology, Andean Archaic, Andean Altiplano, Lake Titicaca Basin, Peru, Colorado Plateau, U.S. Southwest, lithics, isotopes, paleoethnobotanics

REFEREED JOURNAL ARTICLES

*communicating author

Chen, Caleb, Luis Flores-Blanco, and Randall **Haas***

2021 Why Did Projectile-Point Size Increase in the Andean Altiplano Archaic? *Latin American Antiquity*. In press.

Parker, Glendon J., Tammy Buonasera, Julia M. Yip, Jelmer W. Eerkens, Michelle Salemi, Blythe Durbin-Johnson, Randall **Haas**, Jane E. Buikstra, Haagen Klaus, David M. Rocke and Brett Phinney

2021 AMELY deletion is not detected in systematically sampled reference populations: A Reply to Štampfelj. *Journal of Archaeological Science* 130:105354. doi:[10.1016/j.jas.2021.105354](https://doi.org/10.1016/j.jas.2021.105354).

- Kitchel, Nathaniel, Mark S. Aldenderfer, and Randall **Haas***
2021 Diet, mobility, technology, and lithics: Neolithization on the Andean Altiplano, 7.0-3.5 ka. *Journal of Archaeological Method and Theory*. doi: [10.1007/s10816-021-09525-7](https://doi.org/10.1007/s10816-021-09525-7).
- Mackie, Madeline E*. and Randall **Haas***
2021 Estimating the frequency of coincidental spatial associations between Clovis artifacts and proboscidean remains in North America. *Quaternary Research* 1-11. doi: [10.1017/qua.2021.1](https://doi.org/10.1017/qua.2021.1).
- Haas***, Randall, James Watson, Tammy Buonasera, John Southon, Jennifer C. Chen, Sarah Noe, Kevin Smith, Carlos Viviano Llave, Jelmer Eerkens and Glendon Parker
2020 Female hunters of the early Americas. *Science Advances* 6(45):eabd0310. doi:[10.1126/sciadv.abd0310](https://doi.org/10.1126/sciadv.abd0310).
- Buonasera, Tammy, Eerkens, Jelmer, de Flamingh, Alida, Engbring, Laurel, Yip, Julia, Li, Hongjie, **Haas**, Randall, DiGiuseppe, Diane, Grant, Dave, Salemi, Michelle, Nijmeh, Charlene, Arellano, Monica, Leventhal, Alan, Phinney, Brett, Byrd, Brian F., Malhi, Ripan S. and Parker, Glendon
2020 A comparison of proteomic, genomic, and osteological methods of archaeological sex estimation. *Scientific Reports* 10(1). doi:[10.1038/s41598-020-68550-w](https://doi.org/10.1038/s41598-020-68550-w).
- Haas***, Randall and Steven L. Kuhn
2019 Forager mobility in constructed environments. *Current Anthropology* 16(4):499-535. doi: [10.1086/704710](https://doi.org/10.1086/704710).
- Haas***, Randall, Todd A. Surovell, and Matthew J. O'Brien
2019 Dukha mobility in a constructed environment: past camp use predicts future use in the Mongolian Taiga. *American Antiquity* 84(2):215-233. doi: [10.1017/aaq.2018.88](https://doi.org/10.1017/aaq.2018.88).
- Glendon J. Parker, Julia M. Yip, Jelmer W. Eerkens, Michelle Salemi, Blythe Durbin-Johnson, Caleb Kiesow, Randall **Haas**, Jane E. Buikstra, Haagen Klaus, Laura A. Regan, David M. Rocke, and Brett S. Phinney
2019 Sex estimation using sexually dimorphic amelogenin protein fragments in human enamel. *Journal of Archaeological Science* 101: 169-180. doi: [10.1016/j.jas.2018.08.011](https://doi.org/10.1016/j.jas.2018.08.011).
- Robinson, Erick, H. Jabran Zahid, Brian F. Coddling, Randall **Haas**, and Robert L. Kelly
2019 Spatiotemporal dynamics of prehistoric human population growth: radiocarbon 'dates as data' and population ecology models. *Journal of Archaeological Science* 101: 63-71. doi:[10.1016/j.jas.2018.11.006](https://doi.org/10.1016/j.jas.2018.11.006).
- John Lindo, Randall **Haas**, Courtney Hofman, Mario Apatá, Mauricio Moraga, Ricardo Verdugo, James T. Watson, Carlos Llave, David Witonsky, Enrique Pacheco, Mercedes Villena, Rudy Soria, Cynthia Beall, Christina Warinner, John Novembre, Mark Aldenderfer, Anna Di Rienzo
2018 The genetic prehistory of the Andean highlands 7,000 Years BP through European contact. *Science Advances* 11(4): eaau4921. doi: [10.1126/sciadv.aau4921](https://doi.org/10.1126/sciadv.aau4921).
- Haas***, Randall, Todd Surovell, and Matthew O'Brien
2018 Occupancy and the Use of Household Space Among the Dukha. *Ethnoarchaeology* 10(1): 1-15. doi: [10.1080/19442890.2018.1440510](https://doi.org/10.1080/19442890.2018.1440510).
- Watson*, James T., and Randall **Haas***
2017 Dental evidence for wild tuber processing among Titicaca Basin foragers 7000 ybp. *American Journal of Physical Anthropology* 164(1): 117-130. doi: [10.1002/ajpa.23261](https://doi.org/10.1002/ajpa.23261).
- Haas**, Randall, Mark S. Aldenderfer, and Michael C. Meyer
2017 Response to Comment on "Permanent human occupation of the central Tibetan Plateau in the early Holocene." *Science* 357(6351): eaam9444. doi: [10.1126/science.aam9444](https://doi.org/10.1126/science.aam9444).
- Meyer, Michael C., D. L. Hoffmann, Mark S. Aldenderfer, Randall **Haas**, J. A. Dahl, Z. Wang, D. Degering, and Frank Schlütz
2017 Response to Comment on "Permanent human occupation of the central Tibetan Plateau in the early Holocene." *Science* 357(6351): eaan8575. doi: [10.1126/science.aan8575](https://doi.org/10.1126/science.aan8575).
- Haas***, Randall, Ioana C. Stefanescu, Alexander Garcia-Putnam, Mark S. Aldenderfer, Mark T. Clementz, Melissa S. Murphy, Carlos Viviano Llave, and James T. Watson
2017 Humans permanently occupied the Andean highlands by at least 7 ka. *Royal Society Open Science* 4(6): 170331. doi: [10.1098/rsos.170331](https://doi.org/10.1098/rsos.170331).

- Meyer, Michael C., Mark S. Aldenderfer, Z. Wang, D.L. Hoffmann, D. Degering, J.A. Dahl, Randall **Haas**, Frank Schlütz
 2017 Permanent human occupation of the central Tibetan Plateau in the Early Holocene. *Science* 355 (6320): 64–67. doi: [10.1126/science.aag0357](https://doi.org/10.1126/science.aag0357).
- Downey, Sean S., Randall **Haas**, and Stephen J. Shennan
 2016 European Neolithic societies showed early warning signals of population collapse. *Proceedings of the National Academy of Sciences*: 201602504. doi: [10.1073/pnas.1602504113](https://doi.org/10.1073/pnas.1602504113).
- Haas***, Randall, Cynthia J. Klink, Greg J. Maggard, and Mark S. Aldenderfer
 2015 Settlement-size scaling among prehistoric hunter-gatherer settlement systems in the New World. *PLoS ONE* 10(11):e0140127. doi: [10.1371/journal.pone.0140127](https://doi.org/10.1371/journal.pone.0140127).
- Haas***, Randall, and Carlos Viviano Llave
 2015 Hunter-gatherers on the eve of agriculture: insights from Soro Mik'aya Patjxa, Lake Titicaca Basin, Peru, 8000-6700 B.P. *Antiquity* 89(348):1297-1312. doi: [10.15184/aqy.2015.100](https://doi.org/10.15184/aqy.2015.100).
- Mills, Barbara J., Matthew A. Peeples, Randall **Haas**, Lewis Borck, Jeffery J. Clark, and John M. Roberts Jr.
 2015 Multiscalar Perspectives on social networks in the late prehispanic Southwest. *American Antiquity* 80(1): 3–24. doi: [10.7183/0002-7316.79.4.3](https://doi.org/10.7183/0002-7316.79.4.3).
- Mills, Barbara J., Jeffery J. Clark, Matthew A. Peeples, Randall **Haas**, John M. Roberts Jr., J. Brett Hill, Deborah L. Huntley, Lewis S. Borck, Ronald L. Breiger, Aaron A. Clauset, and M. Steven Shackley
 2013 Transformation of social networks in the late pre-Hispanic US Southwest. *Proceedings of the National Academy of Sciences* 110(15): 5785–5790. doi: [10.1073/pnas.1219966110](https://doi.org/10.1073/pnas.1219966110).
- Peeples, Matthew, and Randall **Haas**
 2013 Brokerage and social capital in the prehispanic U.S. Southwest. *American Anthropologist* 115(2):232-247. doi: [10.1111/aman.12006](https://doi.org/10.1111/aman.12006).
- Roberts, John M. Jr., Barbara J. Mills, Jeffery J. Clark, Randall **Haas**, Deborah H. Huntley, and Meaghan A. Trowbridge
 2012 A Method for chronological apportioning of ceramic assemblages. *Journal of Archaeological Science* 39(5):1513-1520. doi: [10.1016/j.jas.2011.12.022](https://doi.org/10.1016/j.jas.2011.12.022).
- Raichlen, David, Adam D Gordon, William E.H. Harcourt-Smith, Adam Foster, Randall **Haas**
 2010 Laetoli footprints preserve earliest direct evidence of human-like bipedal biomechanics. *PLoS ONE* 5(3): e9769. doi: [10.1371/journal.pone.0009769](https://doi.org/10.1371/journal.pone.0009769).
- Bourke, Mary C., Randall **Haas**, James A. Brearily, and Heather A. Viles
 2007 Fluvial features. In *An Atlas of rock breakdown features in geomorphic environments*, edited by M.C. Bourke and H.A. Viles, pp. 23-47. Planetary Sciences Institute, Tucson.
- Haas***, Randall
 2006 The social implications of Basketmaker II cordage design distribution. *Kiva* 71(3): 275-298.
 2002 Basketmaker II fiber industry of Boomerang Shelter, Utah: A Synthesis of Archaeological Data Analysis and Experimentation. *Kiva* 67:167-185.

OTHER WORKS

Haas, Randall

[In Press] Sedentary sites. In *South American Contributions to World Archaeology*, edited by M. Bonomo and S. Archila. Springer, New York.

Crane, Adam, James T. Watson, and Randall **Haas**

2020 The effects of aberrant tooth wear on occlusal relationships. In *Dental Wear in Evolutionary and Biocultural Contexts*, edited by C Schmidt, JT Watson, pp. 99-121. Elsevier Press, London. doi: [10.1016/B978-0-12-815599-8.00005-8](https://doi.org/10.1016/B978-0-12-815599-8.00005-8).

Watson, James T., and Randall **Haas**

2017 Tooth wear in Lake Titicaca Basin foragers signals processing of wild tubers prior to domestication. *Science Trends*. <https://sciencetrends.com/tooth-wear-lake-titicaca-basin-foragers-signals-processing-wild-tubers-prior-domestication/>

Haas, Randall

2014 Forager mobility, constructed environments, and emergent settlement hierarchy: insights from Altiplano archaeology. Unpublished Ph.D. Dissertation, The University of Arizona, Tucson.

Mills, Barbara J, John M. Roberts, Jeffery J. Clark, Randall **Haas**, Deborah L. Huntley, Matthew A. Peeples, Lewis S. Borck, Susan C. Ryan, Meaghan A. Trowbridge, and Ronald L. Breiger

2013 The dynamics of social networks in the late prehispanic US Southwest. In *Network analysis in archaeology: new approaches to regional interaction*, edited by Carl Knappett, pp. 181–202. Oxford University Press, Oxford.

Haas, Randall, and Jacopo Tagliabue

2012 Prediciendo la coalescencia en los períodos Formativo y Tiwanaku en la Cuenca de Titicaca: un modelo simple basado en agentes (Predicting Formative and Tiwanaku period coalescence in the Titicaca Basin: a simple agent-based model). In *Arqueología de la cuenca del Titicaca, Perú*, edited by Luis Flores Blanco and Henry Tantaleán, 243–260. Instituto Francés de Estudios Andinos; Cotsen Institute of Archaeology at UCLA, Lima.

Haas, Randall

2010 Article Review: Network analysis and the emergent Japanese state. *Current Anthropology* 51:571.

2010 Article Review: Cahokia as a theater state. *Current Anthropology* 51:455–456.

2010 Article Review: Nasca heads for Nasca people. *Current Anthropology* 51:313.

2010 Flatbed scanners, GIS, and perishable artifact documentation. Society for American Archaeology Fiber and Perishable Interest Group Winter 2009/2010 Newsletter.

Haas, Randall

2003 *Phase II of A Cultural Resources Inventory of Northern Arizona University's Proposed Forest Treatment Areas, Coconino County, Arizona*. Northern Arizona Archaeological Report 1226c. Manuscript on file, Northern Arizona University Anthropology Laboratories, Flagstaff.

2002 *A Cultural Resources Inventory of Northern Arizona University's Proposed Forest Treatment Areas, Coconino County, Arizona*. Northern Arizona Archaeological Report 1226a. Manuscript on file, Northern Arizona University Anthropology Laboratories, Flagstaff.

2002 *An Archaeological Survey and Cultural Resources Survey for the Merriam-Powell Center for Environmental Research, Coconino County, Arizona*. Northern Arizona University Archaeological Report 1223. Manuscript on file at Northern Arizona University Anthropology Laboratories, Flagstaff.

Haas, Randall, and Michael R. Coughlan

2003 *A Cultural Resources Inventory for Northern Arizona University near Wild Bill Hill, Coconino County, Arizona*. Manuscript on file, Northern Arizona University Anthropology Laboratories, Flagstaff.

Haas, Randall, Christian E. Downum, and Ellen Brennan

2003 *Report of Findings: Prestabilization Documentation for Antelope House Pueblo (NA 625), Wupatki National Monument*. Manuscript on file, Northern Arizona University Anthropology Laboratories, Flagstaff.

2003 *Report of Findings: Prestabilization Documentation for New Heiser Pueblo (NA 202), Wupatki National Monument*. Manuscript on file, Northern Arizona University Anthropology Laboratories, Flagstaff.

GRANTS, FELLOWSHIPS, AND SCHOLARSHIPS

2021 grant, United States Embassy in Lima Ambassador's Fund for the Preservation of Cultural Heritage. Conservation of Ethnographic Objects Associated with the Ancient Huntresses of the Ilave Basin in Puno. (\$52,000).

2020 grant, Hellman Fellowship, UC Davis Hellman Fellows Fund. Human Adaptation to Extreme Environments: 9000-year-old DNA from the High Andes, Peru (\$37,000).

2017 grant, Junior Faculty grant, UC Davis Institute for Social Science. The Evolution of Human Cooperation and Animal Domestication: Archaeological Investigations of Possible Ancient Animal Traps in the Andes Mountains, Peru (\$4000).

2016 grant, June Frison Memorial Fund, George C. Frison Institute of Archaeology and Anthropology, University of Wyoming. An Ethnoarchaeology of Gran Chaccu Communal Vicuña Drives in the Andean High Plains (\$2000).

2015 scholarship, University of Colorado, Building Capacity in Bayesian Analysis for Practicing Ecologists (NSF PCEP 1145200, principal investigator: Dr. Thomas Hobbs), tuition+stipend.

2008-2014 grants, Emil Haury Education Fund for Archaeology, The University of Arizona. seven awards for in support of archaeological field and laboratory research in the Lake Titicaca Basin, Peru (totaling \$4036).

2013 fellowship, The Marshall Foundation, Louise Foucar Marshall Foundation Graduate Fellowship, principal investigator (\$10,788 + tuition).

2013 grant, National Science Foundation, Doctoral Dissertation Improvement Grant: Settlement-Size Scaling and Economic Transformation in the Lake Titicaca Basin, Peru (BCS 1311626), co-principal investigator (\$25,200).

2013 grant, Graduate and Professional Student Council, The University of Arizona. Research and Project Grant: Radiocarbon Dating the Last Foragers of Lake Titicaca (\$1000).

2012 grant, American Philosophical Society, Lewis and Clark Fund for Exploration and Field Research: Late Archaic Period Settlement Hierarchy in the Lake Titicaca Basin, Peru, principal investigator (\$5000).

2012 grant, Social and Behavioral Sciences Research Institute, The University of Arizona. Dissertation Research Grant: Population hierarchy and egalitarian Hunter-Gatherers in the Lake Titicaca (award no. 12RD02; \$1000).

2010-2012 grants, Riecker Research Scholarship, The University of Arizona, three awards in support of archaeological field and laboratory research in the Lake Titicaca Basin, Peru (totaling \$2300).

2011 grant, GeoEye Foundation, Satellite Imagery Grant for the Ilave region of Peru, principal investigator (\$4000).

2011 grant, Mary Alice Sherry Helm Scholarship, The University of Arizona. In support of archaeological field and laboratory research in the Lake Titicaca Basin, Peru (\$350).

2010-2011 grants, William and Nancy Sullivan Scholarship, The University of Arizona. Two awards in support of archaeological field and laboratory research in the Lake Titicaca Basin, Peru (totaling \$2000).

2010 grant, Graduate Professional Student Council Travel Grant, The University of Arizona. In support of conference travel (\$500).

2010 grant, College of Letters, Arts, and Sciences, The University of Arizona. Dissertation Research Grant in support of archaeological field and laboratory research in the Lake Titicaca Basin, Peru (\$800).

2009-2010 grants, William Shirley Fulton Scholarship, The University of Arizona. Two awards in support of archaeological field and laboratory research in the Lake Titicaca Basin, Peru (totaling \$875).

2009 scholarship, Santa Fe Institute, Complex Systems Summer School (tuition+stipend).

2009 grant, Traditions, Transitions, and Treasures Fund, The University of Arizona. In support of archaeological field and laboratory research in the Lake Titicaca Basin, Peru (\$150).

2009 grant, Stanley R. Grant Scholarship, The University of Arizona. In support of archaeological field and laboratory research in the Lake Titicaca Basin, Peru (\$50).

2008 fellowship, National Science Foundation IGERT Program in Archaeological Science Traineeship, The University of Arizona (\$30,000).

2007-2012 fellowship, Graduate Research and Teaching Fellowship, Arizona State University (\$135,000, declined)

2007-2010 fellowship, Graduate Teaching Assistant Fellowship, University of California, Davis (\$87,900, declined).

2007-2009 scholarship, Frank Hibben Scholarship, University of New Mexico (\$30,000, declined).

College of Social and Behavioral Sciences Student Travel Grant, 2003, Northern Arizona University, Flagstaff, AZ

2000 grant, Hooper Undergraduate Research Grant, Northern Arizona University, (\$500).

1998-2001 scholarships, McDonald/Rolle Academic Scholarships, Northern Arizona University.

1998-2001scholarships, Craig Schondeck Memorial Academic Scholarship, Northern Arizona University.

HONORS AND AWARDS

2021 keynote speaker, [Rocky Mountain Anthropological Conference](#). Alamosa, Colorado. (postponed)

2020 *Altmetric* lists Haas et al. (2020) *Science Advances* paper among [The 2020 Altmetric Top 100](#) at #30 and the #1 paper in the category of history and archaeology.

2020 *Business Insider* lists Wilamaya Patjxa female hunter discovery among [13 discoveries in the last year have fundamentally altered our understanding of human history](#).

2020 *Heritage Daily* places Wilamaya Patjxa female hunter discovery on [list of the 10 most prominent archaeological discoveries to hit the headlines in 2020](#).

2020 *Gizmodo* places Wilamaya Patjxa female hunter discovery among [The Most Intriguing Archaeological Discoveries of 2020](#).

2020 *Live Science* places Wilamaya Patjxa female hunter discovery among [The 10 biggest archaeology discoveries of 2020](#).

2020 *Artnet* identifies Wilamaya Patjxa female hunter among [The 10 Most Astonishing Archaeological Discoveries of 2020](#).

2014 and 2010 1st Place, School of Anthropology Annual Photo Contest, The University of Arizona (\$300).

2001 Undergraduate Commencement Speaker, College of Social and Behavioral Sciences Commencement Speaker, Northern Arizona University.

2001 Outstanding Senior in Anthropology Award, Northern Arizona University.

2001 Runner-up, Julian Hayden Student Paper Competition, Arizona Archaeological and Historical Society.

INVITED TALKS

2021 Wilamaya Patjxa and female hunters of the early Americas. Pre-Columbian Society of Washington, D.C.

2021 [Fierce, pink-clad, warrior-hunter females of the early Americas? Archaeology, gender, and the media](#). Co-presented with Margaret Conkey and Ruth Tringham. University of California, Berkeley Archaeological Research Facility, Berkeley. <https://www.youtube.com/watch?v=CP1JDdAICCY>

2021 [Wilamaya Patjxa and Female Hunters of the Early Americas](#). Co-hosted by the Archaeological Institute of America, Westchester Society and the Chappaqua Public Library, New York.

2021 Female work and status among early foragers of the high Andes. Tulane University Middle American Research Institute and the Center for Archaeology, New Orleans.

2021 [Female Hunters of the Early Americas: Wilamaya Patjxa](#). Archaeological Institute of America Westchester Society and Chappaqua Library, New York.

2021 Wilamaya Patjxa and Female Hunters of the Early Americas. Panhandle Archaeological Society, Tallahassee.

2021 [How Archaeology + an ATS Visual Altered Public Understanding of Human History](#). Academic Technology Services, University of California, Davis.

2021 [Female Hunters of the Early Americas](#). University of the Third Age, University of San Diego, California.

2020 [Wilamaya Patjxa and Female Hunters of the Early Americas](#). The Archaeology Centre, University of Toronto, Canada.

2020 Excavations at Wilamaya Patjxa, Peru, 9.5–5.5 ka. Undergraduate Anthropology Club, University of California, Davis.

2019 [Time, place, and emergent complexity in forager societies](#). Stanford Archaeology Center Evening workshop series, Stanford University, California.

2019 [The origins of agriculture: meat, potatoes, and place in the high Andes, 7000 BP](#). UCSC Archaeology/Biological Anthropology Lunch Series, University of California, Santa Cruz.

2018 A foundation for human settlement hierarchy: Insights from hunter-gatherers and herders. Department of Anthropology Lecture Series, California State University, Chico.

2018 [The last Altiplano foragers: Archaeology, ethnoarchaeology, and economics at 7000BP, 15°S, 3800masl](#). Far Western Anthropological Research Group, Inc., Davis.

2018 The Dukha Ethnoarchaeological Project. Undergraduate Anthropology Club, University of California, Davis.

2017 The Andean ascent: How humans first settled the high altitudes of Peru 7000 years ago. [UC Davis Institute for Social Science, Davis](#) and [UC Riverside Department of Anthropology lecture series](#).

2017 The Andean ascent: Forager colonization and the path to complexity on the South American High Plains. Cheyenne Chapter of the Wyoming Archaeological Society, Cheyenne.

2016 Head shaping among hunter-gatherers of the South American High Plains. June Frison Chapter of the Wyoming Archaeological Society, Laramie.

2016 Forager mobility in constructed environments. Department of Anthropology Lecture Series, University of Wyoming, Laramie.

2014 Foragers and the path to complexity: insights from the Lake Titicaca Basin Late Archaic Period, 7000-5000 BP. Department of Anthropology Lecture Series, Washington University, St. Louis.

CONFERENCE SYMPOSIA AND WORKSHOPS ORGANIZED

2018 High accuracy, low cost archaeological 3D modeling at feature, site, and global scales. Workshop organized for UC Davis 3D Research Symposium organized by Sara Watson, Ph.D. student.

2017 Archaeological perspectives on the evolution of forager cooperation. Symposium organized for 82nd Annual Meeting for the Society of American Archaeology, Vancouver.

2017 High-elevation game drives and communal hunting. Recent Advances at High Elevation, Cody. Co-organized with Spencer Pelton.

2011 Archaeometry in fiber and perishables research. 76th Annual Meeting for the Society of American Archaeology, Sacramento. Co-organized with Sarah Kerchusky.

PAPERS AND POSTERS PRESENTED

Snyder, Thomas J., Bryna Hull, Eden Washburn, Vicky Oelze, and Randall **Haas**

2021 Strontium isotope analysis indicates restricted mobility among early foragers in the high Andes. Paper presented at the 90th Annual Meeting of the American Association of Physical Anthropologists, Virtual.

Watson, James T., Randall **Haas**, and Caitlin McPherson

2021 Biological responses to permanent occupation and tuber domestication in the Andean Altiplano. Paper presented at the 90th Annual Meeting of the American Association of Physical Anthropologists, Virtual.

Haas, Randall, Tammy Buonasera, Jennifer Chen, Jelmer Eerkens, Sarah Noe, Glendon Parker, John Southon, Carlos Viviano Llave, James Watson

2020 Behavioral adaptations to life in the interior high Andes, 9–7ka. Paper presented at the 89th Annual Meeting of the American Association of Physical Anthropologists, Los Angeles.

Haas, Randall, Tammy Buonasera, Jennifer Chen, Jelmer Eerkens, Sarah Noe, Glendon Parker, John Southon, Carlos Viviano Llave, James Watson

2020 Excavations at Wilamaya Patjxa, Lake Titicaca Basin, 9-7 ka. Paper presented at the 60th Annual Meeting of the Institute of Andean Studies, Berkeley.

Lindo, John, Randall **Haas**, Christina Warinner, Mark Aldenderfer and Anna Di Rienzo

2019 The Genetic Prehistory of the Andean Highlands 7,000 Years BP through European Contact. Paper presented at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque.

Haas, Randall, Luis Flores, Bryna Hull, Nathaniel Kitchel and Patricia McNeill

2019 Preliminary Investigations of Archaeological Vicuña Drives on the Andean Altiplano. Paper presented at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque. Chen, Jennifer, Randall **Haas**, Jelmer Eerkens and Bryna Hull

- 2019 Meat and Potatoes: A Mixed 7,000-Year-Old-Diet. Paper presented at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque.
- O'Brien, Matthew, Todd Surovell and Randall **Haas**
- 2019 Five Seasons with the Dukha: House Structure among Nomadic Herders. Paper presented at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque.
- Brantingham, P. Jeffrey, Randall **Haas**, and Todd Surovell
- 2019 One Thing Leads to Another: Causal Triggering among Archaeological Events. Paper presented at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque.
- Haas**, Randall, Luis Flores, Bryna Hull, Nathaniel Kitchel, Trisha McNeill, Bill Matthews, Jennifer Chen, Rachel Paul, Carlos Sanluis, Carlos Viviano Llave
- 2019 Preliminary investigations of archaeological vicuña drives on the Andean Altiplano. Paper presented at the 59th Annual Meeting of the Institute of Andean Studies, Berkeley.
- Surovell, Todd A., Randall **Haas**, Joseph A.M. Gingerich, and Patrick O. Mullen
- 2018 North America was colonized between 14,200 and 13,400 years ago. *Paper presented at the 18th World Congress of the International Union of the Prehistoric and Protohistoric Sciences*, Paris.
- Salemi, Michelle R., Julia M. Yip, Jane Buikstra, Laura Regan, Brett S. Phinney, Jelmer Eerkens, Randall **Haas**, and Glendon J. Parker
- 2018 Sex Estimation in Skeletal Remains by LC-MS/MS Using Sexually Dimorphic Amelogenin Protein Fragments in Human Enamel. Poster presented at the 66th ASMS Conference on Mass Spectrometry and Allied Topics, San Diego.
- Haas**, Randall, Todd A. Surovell, and Matthew O'Brien
- 2018 Behavior from Spatial Structure in Archaeological Sites: A Working Model Based on Dukha Ethnography. Paper presented at the 83rd Annual Meeting of the Society for American Archaeology, Washington, D.C.
- O'Brien, Matthew, Todd A. Surovell, and Randall **Haas**
- 2018 Using Ethnoarchaeology to Identify Spatial Patterns of Behavior in Domestic Dogs. Paper presented at the 83rd Annual Meeting of the Society for American Archaeology, Washington, D.C.
- Surovell, Todd A., Matthew O'Brien, and Randall **Haas**
- 2018 Gender and Space in Campsites of Dukha Reindeer Herders. Paper presented at the 83rd Annual Meeting of the Society for American Archaeology, Washington, D.C.
- Yip, Julia, Michelle Salemi, Brett Phinney, Jelmer Eerkens, Randall **Haas**, Laura Regan, Jane Buikstra, and Glendon Parker
- 2018 Sex Estimation Based on Analysis of the Enamel Proteome. Poster presented at the 70th Annual Meeting of the American Academy of Forensic Sciences, Seattle.
- Haas**, Randall, Ioana Stefanescu, Alex Garcia-Putnam, Mark S. Aldenderfer, Mark T. Clementz, Melissa S. Murphy, Carlos Viviano Llave, and James T. Watson
- 2018 Testing for verticality among Archaic foragers of the Titicaca Basin. Paper presented at the 58th Annual Meeting of the Institute of Andean Studies, Berkeley.
<http://www.instituteofandeanstudies.org/meetings.html>.
- Garcia-Putnam, Alex, Randall **Haas**, Melissa S. Murphy, and Ioana Stefanescu
- 2017 Life up high: The first permanent inhabitants of the Peruvian Altiplano? Poster presented at the Western Bioarchaeology Group, Reno.
- Haas**, Randall, Ioana C. Stefanescu, and Alex Garcia-Putnam
- 2017 Colonizing the Andean high plains of South America. Paper presented at the Recent Advances at High Elevation Workshop, Cody.
- Haas**, Randall, James Watson, Carlos Viviano Llave, and Mark Aldenderfer
- 2017 The signaling and inheritance of cooperation: Artificial cranial modification among Altiplano foragers 7000 years ago. Paper presented at the 82nd Annual Meeting for the Society of American Archaeology, Vancouver.
- Downey, Sean S., and Randall **Haas**

- 2017 Early Warning Signals of Demographic Collapse Detected in a Meta-Database of European Neolithic Radiocarbon Dates. Paper presented at the 82nd Annual Meeting for the Society of American Archaeology, Vancouver.
- Surovell, Todd, Randall **Haas**, and Matthew O'Brien
2017 High-Precision Mapping of Human Behavior in Ethnographic Contexts, a New Tool for Ethnoarchaeology. Paper presented at the 82nd Annual Meeting for the Society of American Archaeology, Vancouver.
- Haas**, Randall, and James T. Watson
2017 Dental Evidence for Tuber Intensification in the Titicaca Basin, 7000 Years Ago. Paper presented at the 57th Annual Meeting of the Institute of Andean Studies, Berkeley.
<http://www.instituteofandeanstudies.org/meetings.html>.
- Haas**, Randall, James Watson, Carlos Viviano Llave, and Mark Aldenderfer
2016 A forager origin for artificial cranial modification in the Andes and its implications. Paper presented at the Northeast Conference on Andean and Amazonian Archaeology and Ethnohistory, Cambridge, MA.
- Haas**, Randall
2015 Forager mobility in constructed environments. Paper presented at the 80th Annual Meeting for the Society of American Archaeology, San Francisco.
- 2014 Residential Mobility, Site-Size Variation, and Archaic Foragers of the Altiplano. Paper presented at the 79th Annual Meeting for the Society of American Archaeology, Austin.
- Kuhn, Steven, Randall **Haas**, and Luke Premo
2014 Are Individual Mobility Patterns Emergent from Resource Distributions? A Modeling Approach. Paper presented at the 79th Annual Meeting for the Society of American Archaeology, Austin.
- Haas**, Randall
2013 The forager-farmer transition in the Ilave Basin, Peru: site size, residential mobility, and neutral theory. Poster presented at the 53rd Annual Meeting of the Institute of Andean Studies, Berkeley.
- Haas**, Randall, and Barbara J. Mills
2012 Ceramics as agents: ware-affiliation networks in the Prehispanic Southwest. Paper presented at the 77th Annual Meeting for the Society of American Archaeology, Memphis.
- Anderson, Derek, D. Shane Miller, and Randall **Haas**
2011 Reconceptualizing clovis mobility: sites and projectile point distributions in North America. Paper presented at the 76th Annual Meeting for the Society of American Archaeology, Sacramento.
- Haas**, Randall
2011 XRF Characterization of basalt flakestone in the Lake Titicaca Basin, Peru. Poster presented at the 76th Annual Meeting for the Society of American Archaeology, Sacramento.
- 2011 Archaic networks in the Ilave Drainage, Peru. Poster presented at the 51st Annual Meeting of the Institute of Andean Studies, Berkeley.
- Haas**, Randall
2010 Low-level food producers and the pursuit of game on the Rainbow Plateau, Arizona/Utah. Paper presented at the 75th Annual Meeting for the Society of American Archaeology, St. Louis.
- Haas**, Randall, Jeffrey C. Clark, Barbara J. Mills, Meaghan A. Trowbridge, Deborah L. Huntley, John Roberts, and Steven M. Shackley
2010 The Southwest Social Networks Project: a macro-regional social network approach to the Greater Southwest. Paper presented at XI Southwest Symposium, Hermosillo.
- Huntley, Deborah L., Barbara J. Mills, Jeffrey C. Clark, et al.
2010 The Southwest Social Networks Project: a Mogollon perspective. Paper presented at the 16th Biennial Mogollon Archaeology Conference, Las Cruces, NM.
- Haas**, Randall, Mark S. Aldenderfer, Nathan M. Craig, and Claudia Rumold
2009 Late Archaic totora processing in the Titicaca Basin: evidence for early household craft production. Paper presented at the 74th Annual Meeting for the Society of American Archaeology, Atlanta.

Haas, Randall, James P. Holmlund, and Joseph P. Nicoli

2006 3D models in a 2D world: the benefits of adding a third dimension to architectural documentation. Paper presented at the 72nd Annual Meeting for the Society of American Archaeology, San Juan.

Bourke, Mary C., Randall **Haas**, James A. Brearley, and Heather A. Viles

2005 The surface fractures of 'pristine' flood-transported boulders. Paper presented at the 36th Annual Lunar and Planetary Science Conference, League City.

Haas, Randall

2005 A new twist on cordage: the social implications of design variation in Archaic and Basketmaker II cordage. Paper presented at the 70th Annual Meeting for the Society for American Archaeology, Salt Lake City.

2004 Colorado Plateau cordage variability during the transition to agriculture. Poster presented at the 77th Annual Pecos Conference, Bluff.

2002 Basketmaker II enculturative background: implications of low-visibility cordage style distribution on the Colorado Plateau. Paper presented at the 68th Annual Meeting for the Society for American Archaeology, Milwaukee.

SERVICE

Peer Review: Leakey Foundation Research Grant ad hoc review (2021), *Chungará* (2021), National Science Foundation Doctoral Dissertation Improvement Grant ad hoc review (2020, 2021), *Science Advances* (2020x2, 2017x2, 2015, 2014), National Science Foundation Senior Archaeology Award ad hoc review (2020, 2019), *Current Anthropology* (2018, 2017, 2016x3, 2015x2, 2012), *American Antiquity* (2021, 2018, 2017x2, 2015x2), *Latin American Antiquity* (2018x2), *PLoS ONE* (2018x3), *Archaeological Research in Asia* (2017), *Advances in Archaeological Practice* (2016x2, 2014), *American Journal of Human Biology* (2016), *International Journal of Osteoarchaeology* (2016), *Journal of Archaeological Science* (2016)

Collasuyo Archaeological Research Institute vice president (2018-present); UC Davis Anthropology Museum committee member (2017-present); UC Davis Faculty Senate Assembly First Alternate Representative for Anthropology (2017-present); UC Davis Undergraduate Program committee member (2018); Society for American Archaeology Fiber and Perishable Interest Group co-chair (2008-2012)

TEACHING EXPERIENCE

Instructor of record, Andean Archaeology (ANT 175), Spring 2019, 2021. University of California, Davis.

Instructor of record, Introduction to Archaeology (ANT 003), Winter 2018, 2019, 2020. University of California, Davis.

Instructor of record, Hunter-gatherer Anthropology (ANT 178), Winter 2020. University of California, Davis.

Instructor of record, Graduate Seminar: Human Foraging Theory Seminar (ANT 263), Fall 2019. University of California, Davis.

Instructor of record, Graduate Seminar: Anthropological Geographic Information Systems (ANT 216), Winter 2019. University of California, Davis.

Instructor of record, Graduate Seminar: The Evolution of Human Cooperation (ANT 296), Spring 2018. University of California, Davis.

Instructor of record, Archaeological Field Methods (ANT 181), Spring 2018, 2019, 2020. University of California, Davis.

Instructor of record, Ecological Anthropology, Fall 2011, Summer 2012, and Summer 2013, The University of Arizona.

Instructor of record, Patterns in Prehistory, Summer 2011, The University of Arizona.

Teaching assistant, Complexity and Anthropology (graduate seminar), Spring 2013, The University of Arizona. Instructor of record: Dr. J. Stephen Lansing.

Teaching assistant, Principles of Archaeology, Spring 2012, The University of Arizona. Instructor of record: Dr. Lars Fogelin.

Teaching assistant, The Origins of Human Diversity, Fall 2010 and Fall 2012, The University of Arizona. Instructor of record: Dr. Takeshi Inomata.

Teaching assistant, The Origins of Human Diversity, Spring 2011, The University of Arizona. Instructor of record: Dr. Mary Stiner.

Teaching assistant, Archaeological Field School, Summer 2001, Northern Arizona University field school at Wupatki National Monument. Instructor of record: Dr. Christian E. Downum.

Teaching assistant, Center for American Archeology Public Education Program, Summer 2000, Kampsville, IL. Instructor of record: Karen Atwell.

CURRENT GRADUATE ADVISEES

Luis Flores Blanco (UC Davis, major professor), Katherine Morucci (UC Davis, major professor), Thomas Snyder (UC Davis, co-advisor with Jelmer Eerkens), Ebony Creswell (University of Wyoming, outside committee member, M.A.), Nicholas Hanten (UC Davis, committee member), Bryna Hull (UC Davis, committee member), Gregory Wada (UC Davis, committee member), Patricia McNeill (UC Davis, committee member), Peiqi Zhang (UC Davis, committee member), Giulia Gallo (UC Davis, committee member)

PREVIOUS GRADUATE ADVISEES

Madeline Mackie (University of Wyoming, outside committee member, graduated 2019), Gregory Burns (UC Davis, committee member, graduated 2018)

UNDERGRADUATE ADVISEES

Jennifer Chen (UC Davis 2018, honors), Lauren Canale (UC Davis 2019, honors), Esme Grundy (UC Davis 2019, honors), Amber Booth (UC Davis 2019), Rachel Paul (UC Davis 2019), Isabelle Guerrero (UC Davis 2020), Caleb Chen (UC Davis 2020, honors), Carlos Sanluis (UC Davis 2019)

Undergraduate advisee research awards: UC Davis Anthropology Undergraduate Research Award (awarded to Rachel Paul for “Camelid Fiber Analysis Chart Creation to Document Trade Routes and Human Movement in Prehistoric Eras”), UC Davis Anthropology Undergraduate Research Award (awarded to Caleb Chen for “Using Atlatl Experiments to Understand Increasing Projectile Point Size in the Andean Archaic”)

PUBLIC OUTREACH AND SELECTED MEDIA COVERAGE

2021 Interview: “[Randall Haas: Finding Insights in Archaeology.](#)” *Today’s Science: Science News Written Especially for Students.* ([pdf](#))

2020 Media Coverage: “Female Hunters of the Early Americas,” published in *Science Advances* (Haas et al. 2020) covered by over 200 media outlets around the world and tweeted over 4000 times in 140

countries with a collective audience of 7 million people. The media attention score ranks in the top 1% of 16 million publications ever tracked (<https://scienceadvances.altmetric.com/details/93720617>). Selected 2020 coverage is provided below.

2021 News Article: [What New Science Techniques Tell Us About Ancient Women Warriors: Recent studies show that man was not always the hunter](#). *New York Times*.

2020 News Article: [Ancient Remains in Peru Reveal Young, Female Big-Game Hunter](#). *New York Times*.

2020 Radio Interview: [Ancient Big Game Hunters May Have Included Women](#). Science Friday, *National Public Radio*.

2020 News Article: [Woman the hunter: Ancient Andean remains challenge old ideas of who speared big game](#). *Science*.

2020 News Article: [Female Big Game Hunters May Have Been Common in the Early Americas](#). *American Association for the Advancement of Science*.

2020 News Article: [Don't Blame Gender Inequity On Our Ancestors, Ancient Women Were Big-Game Hunters Too](#). *Forbes*.

2020 News Article and Radio Interview: [Ancient bones show women were hunters, not just gatherers](#). *British Broadcasting Corporation*.

2020 News Article: [Prehistoric female hunter discovery upends gender role assumptions](#). *National Geographic*.

2020 News Article: [Las mujeres del Neolítico también cazaban](#). *National Geographic España*.

2020 Radio Interview: [In the ancient Americas, female big-game hunters were common](#). Quirks and Quarks, *Canadian Broadcasting Corporation*.

2020 News Article: [Female stone-age hunters: If you thought men hunted and women gathered, think again](#). *The Economist*.

2020 News Article: [Las mujeres prehistóricas también cazaban grandes animales](#). *El País*.

2020 News Article: [Stone Age Women Hunted Big Game, Study Finds](#). *Voice of America*.

2020 News Article: [This Prehistoric Peruvian Woman Was a Big-Game Hunter](#). *Smithsonian Magazine*.

2020 [In the early Americas, female hunters pursued big game, study suggests](#). *Scientific American*.

2020 [A female hunter's remains hint at more fluid gender roles in the early Americas](#). *Popular Science*.

2020 Radio Interview: [Many early big-game hunters of the Americas were female](#). *Radio New Zealand*.

2020 Radio Interview: [Evidence Suggests Women Hunted in Prehistoric Hunter-Gatherer Societies](#). *Top of Mind with Julie Rose, BYU Radio*.

2020 News Article: [Girls got game: early hunting in the Americas](#). *Today's Science: Science News Written Especially for Students*. ([pdf](#))

2019 News Article: [El valor de un diente para la arqueología](#) (The value of a tooth to archaeology). *El Herald (The Herald, Columbia)*.

Feb. 2019 Outreach Assistant. Biodiversity and Museum Day, University of California, Davis.

2019 News Article: [How the people of the Andes evolved to live in high altitudes](#). *Science*.

2019 News Article: [This Week Has Offered a Slew of Insights on the Western Hemisphere's First Humans](#). *Smithsonian Magazine*.

2018 News Article: [Why cities are where they are](#). *The California Aggie*.

February 2018 Outreach Booth: “Experimental Archaeology: Atlatls and Andean Slings,” Biodiversity and Museum Day, University of California, Davis.

2018 News Article: [Space Archeology: Mapping the Past from Above](#). *The California Aggie*.

2017 News Story: [Researchers Dig In To How Early Humans Thrived At High Altitudes](#). *Here and Now, National Public Radio*.

2017 News Article: [Hace más de 7 mil años, el altiplano andino del Perú ya estaba poblado](#). *El Mercurio*.

2017 News Article: [Life above the clouds in the Andes, 7,000 years ago](#). *USA Today*.

2017 News Article: [El ser humano se asentó en las tierras altas andinas hace 7.000 años](#). *Europa Press*.

2017 Blog: [People Lived in Chilly Andean Highlands Year-Round Over 7,000 Years Ago](#). *UC Davis Egghead*.

2017 News Article: [Researchers document early, permanent human settlement in Andes](#). *HeritageDaily*.

2017 News Article: [UW Researchers Document Early, Permanent Human Settlement in Andes](#). *University of Wyoming News*.

2017 News Article: [Archaeologists uncovering ancient peoples’ widespread use of mountains](#). *Billings Gazette*.

2017 News Article: [Research Sheds New Light on High-Altitude Settlement in Tibet](#). *University of Wyoming News*.

2017 News Article: [Hunters lived on Tibetan plateau thousands of years earlier than thought](#). *Nature News*.

2017 News Article: [Footprints Found at Ancient Hot Springs Could Represent Earliest Settlement of Tibetan Plateau](#). *Smithsonian Magazine*.

2016 News Article: [This is what it looks like when society collapses](#). *Business Insider*.

2016 News Article: [Statistical study offers evidence of warning signs before Neolithic community collapse](#). *Phys.org*.

September 2016 Outreach Booth: “Andean Archaeology,” Wyoming Archaeology Fair, Laramie.

April 2015 Outreach Booth: “Flintknapping: Making Stone Tools to Understand our Deep Past,” Maryland Day, University of Maryland, College Park.

2013 [Artifacts shed light on social networks of the past](#). *Phys.org*.

2007-2009 Primary School Presentation: “Ancient Technology of the Tucson Basin: Ceramics, Stone-Tools, and Friction Fire,” Miles Elementary School, Tucson, AZ (May 5, 2007); Wildcat Elementary School, Tucson, AZ (October 10, 2008; October 22-23, 2007); Primary School Presentation: Senita Valley Elementary School, Tucson, AZ (September 21, 2009). A series of presentations developed for elementary and middle school students as part of an outreach project.

April 2000 Outreach Booth: “Flintknapping Demonstrations,” Archaeology Day, Museum of Northern Arizona, Flagstaff, AZ.

July 2007 Primary School Workshop: “Mapping Puebloan Communities,” Hopi Footprints Program, Northern Arizona University. Four-day workshop introducing Hopi youth to the prehistoric community of Keet Seel and mapping pueblos.

LANGUAGES

Spanish, conversational in reading, speaking, and writing

Navajo, proficient with dictionary in reading, speaking, and writing

PROFESSIONAL MEMBERSHIPS

Society for American Archaeology (2001-present), Collasuyo Archaeological Research Institute (2009-present), World Archaeological Congress (2016-2018), Dumbarton Oaks Research Library and Collection (2015-2017)

OTHER PROFESSIONAL POSITIONS

2006-2007 director of mapping and GIS services, Western Mapping Company, Tucson, AZ.

2003-2006 archaeological mapping specialist, Western Mapping Company, Tucson, AZ.

2001-2003 Laboratory coordinator, Northern Arizona University Anthropology Laboratories, Flagstaff, AZ.