

Paula Carolina Ugalde
Cell Phone: +1 520 330 2099
paulaugalde@email.arizona.edu

Education

- 2010 BA (Licenciatura) in Anthropology, Major in Archaeology – Universidad de Chile.
Thesis: “Evaluación de meteorizaciones diferenciales en instrumentos líticos de sitios superficiales del área quebrada de Chacarilla, Región de Tarapacá, Chile”.
- 2019 Master in Anthropology – The University of Arizona
Report: Processes of Paleoindian site and desert pavement formation in the Atacama Desert, Chile

Current position

PhD Candidate, School of Anthropology, The University of Arizona.

Former positions

May 2015 - June 2016: Laboratory Manager at Laboratorio de Arqueología y Paleoambiente, Instituto de Alta Investigación, Universidad de Tarapacá, Arica, Chile.

2010 - April 2015: Archaeology Research Assistant at Centro de Investigaciones del Hombre en el Desierto, Arica, Chile.

Awards/Fellowships

August 2016/ July 2017: University Fellowship Award, University of Arizona. The most prestigious graduate fellowship at the University of Arizona. Distinguished in interdisciplinary scholarship and leadership, recipients participate in year-long professional development training, community engagement, and mentoring opportunities.

June 2018/August 2020: Beca Chile de Doctorado en el Extranjero (Chilean Scholarship to complete doctoral degree abroad).

Work Experience

Published papers (peer-reviewed)

- 2020 Landscape evolution and the environmental context of human occupation of the southern Pampa del Tamarugal, Atacama Desert, Chile. T.R. Workman, J.A. Rech, E.M. Gayo, C.M. Santoro, **P.C. Ugalde**, R. De Pol-Holz, J.M. Capriles, C. Latorre. *Quaternary Science Reviews* 243: 106502.
- 2020 Processes of Paleoindian site and desert pavement formation in the Atacama Desert, Chile. **P.C. Ugalde**, J. Quade, C.M. Santoro, V.T. Holliday. *Quaternary Research*, 1-23. doi:10.1017/qua.2020.39
- 2020 13,000 years of sociocultural plant use in the Atacama Desert of northern Chile. **P.C. Ugalde**, V. McRostie, E.M. Gayo, M. García, C. Latorre, and C.M. Santoro. *Vegetation History and Archaeobotany* (2020). <https://doi.org/10.1007/s00334-020-00783-1>
- 2019 From the Pacific to the tropical forests. Networks of social interaction in the

- Atacama Desert, Northern Chile, by the end of the Pleistocene. C.M. Santoro, E.M. Gayo, J.M. Capriles, M.M. Rivadeneira, K.A. Herrera, V.M. Mandakovic, J.A. Rech, B. Cases, L. Briones, L. Olguín, D. Valenzuela, L.A. Borrero, **P.C. Ugalde**, F. Rothhammer, C. Latorre, P. Szpak. *Chungara, Revista de Antropología Chilena* 51: 5-25.
- 2017 Hunter-Gatherer mobility strategies in the high Andes of Northern Chile during the Late Pleistocene-Early Holocene transition (ca. 11,500-9500 cal B.P.). D. Osorio, J.M. Capriles, **P.C. Ugalde**, K.A. Herrera, M. Sepúlveda, E.M. Gayo, C. Latorre, D. Jackson, R. De Pol-Holz, C. Santoro. *Journal of Field Archaeology* 42:228-240.
- 2017 Late Pleistocene fuel management and human colonization of the Atacama Desert, Northern Chile. D. Joly, C.M. Santoro, E.M. Gayo, **P.C. Ugalde**, R.J. March, R. Carmona, D. Marguerie, C. Latorre. *Latin American Antiquity* 28: 144-160.
- 2017 Continuities and discontinuities in the socio-environmental systems of the Atacama Desert during the last 13,000 years. *Journal of Anthropological Archaeology* 46: 28-39. C.M. Santoro, J.M. Capriles, E.M. Gayo, M.E. de Porras, A. Maldonado, V.G. Standen, C. Latorre, V. Castro, D. Angelo, V. McRostie, M. Uribe, D. Valenzuela, **P.C. Ugalde**, P.A. Marquet. *Journal of Anthropological Archaeology* 46: 28-39.
- 2017 The Dry Puna as an ecological megapatch and the peopling of South America: Technology, mobility, and the development of a late Pleistocene/early Holocene Andean hunter-gatherer tradition in northern Chile. Osorio, D., J. Steele, M. Sepúlveda, E.M. Gayo, J.M. Capriles, K. Herrera, **P.C. Ugalde**, R. De Pol-Holz, C. Latorre, and C.M. Santoro. *Quaternary International* 461: 41–53.
- 2017 Consumo prehispánico de sustancias psicoactivas en el norte de Chile sugiere redes tempranas de intercambio con el Altiplano Central y la Amazonía. J.P. Ugalde, B.T. Arriaza, C.M. Santoro, J.M. Capriles, G. Puddu, **P.C. Ugalde**, F. Rothhammer. *Interciencia* 42: 459-463.
- 2015 How do surficial lithic assemblages weather in arid environments? A case study from the Atacama Desert, Northern Chile. *Geoarchaeology* 30: 352-368. **P.C. Ugalde**, C.M. Santoro, E.M. Gayo, C. Latorre, S. Maldonado, R. de Pol-Holz & D. Jackson.
- 2015 Análisis tecno-tipológico de instrumentos líticos del sitio arcaico temprano Ipilla 2 en los Andes de Arica, Chile. *Chungara, Revista de Antropología Chilena* 47: 41-52. K.A. Herrera, **P.C. Ugalde**, D. Osorio, J.M. Capriles, S. Hocsman & C.M. Santoro.
- 2013 Late Pleistocene human occupation of the hyperarid core in the Atacama Desert, northern Chile. *Quaternary Science Reviews* 77: 19-30. C. Latorre, C.M. Santoro, **P.C. Ugalde**, E.M. Gayo, D. Osorio, C. Salas-Egaña, R. De Pol-Holz, D. Joly & J.A. Rech.
- 2012 Poblamiento temprano del norte de Chile (18-25° S): nuevas evidencias arqueológicas y paleoambientales. *Actas del XVIII Congreso Nacional de Arqueología Chilena*, pp. 197-206. **P. Ugalde**, C. Salas, C. Latorre, D. Osorio, D. Jackson & C. Santoro.
- 2011 (2013) Ocupaciones humanas tempranas y condiciones paleoambientales en el Desierto de Atacama durante la transición Pleistoceno-Holoceno. *Boletín de Arqueología PUCP* 15: 1-20 / ISSN 1029-2004. C.M. Santoro, D. Osorio, V.G. Standen, **P.C. Ugalde**, K. Herrera, E.M. Gayo, F. Rothhammer & C. Latorre.
- 2011 Hakenasa cave and its relevance for the peopling of the southern Andean Altiplano. *Antiquity* 85: 1194-1208. D. Osorio, D. Jackson, **P.C. Ugalde**, C. Latorre, R. De Pol-Holz & C.M. Santoro.
- 2011 Ocupación humana pleistocénica en el Desierto de Atacama: Primeros resultados de

- la aplicación de un modelo predictivo de investigación interdisciplinaria. *Chungara, Revista de Antropología Chilena* 43(2): 353-366. C.M. Santoro, **P.C. Ugalde**, C. Latorre, C. Salas, D. Osorio, D. Jackson & E. Gayo.
- 2010 Early Holocene climate change and human occupation along the semiarid coast of north-central Chile. *Journal of Quaternary Science* 25 (6): 958-988. DOI: 10.1002/jqs.1385. A. Maldonado, C. Méndez, **P. Ugalde**, D. Jackson, R. Seguel & C. Latorre.

Book chapters

- 2017 Historia Prehispánica de la región de Arica y Parinacota. **P.C. Ugalde**, C.M. Santoro, D. Osorio, J.M. Capriles. In: *Arica y Parinacota, Cultural Landscape of America*. Fundación Altiplano Monseñor Salas Valdés, Gobierno Regional de Arica y Parinacota & Consejo Nacional de la Cultural y las Artes, Arica.
- 2016 Cazadores, recolectores y pescadores arcaicos del desierto de Atacama. Entre el Pacífico y los Andes, norte de Chile (ca. 10.000 – 3.700 años a.p.). C.M. Santoro, D. Osorio, **P.C. Ugalde**, M. Sepúlveda, I. Cartajena, V.G. Standen, E.M. Gayo, A. Maldonado, M.M. Rivadeneira, C. Latorre, B.T. Arriaza, F. Rothhammer, P. de Souza, C. Carrasco & L. Núñez. In *Culturas de Chile: Prehistoria, Nueva Edición*, Fernanda Falabella y Mauricio Uribe, eds. Editorial Universitaria, Santiago.

Outreach work

- 2018 *Agua y Arena: una travesía por el Desierto de Atacama (Water and Sand: A Journey through the Atacama Desert)*. Documentary about the importance of water in the Atacama Desert, produced by Kabala and funded by Explora-Conicyt, Chile. (collaboration).
- 2018 *Chile en la Era del Hielo*. Book published by: Explora-CONICYT, and BigBang Productora de Contenidos. (Collaboration).
- 2016 *El Primer Viaje. Caminando por los Senderos del Desierto*. P. Ugalde. Short story for kids, inspired in pre-Hispanic times. Edited by Centro de Investigaciones del Hombre en el Desierto, Arica.

Fieldwork and Research experience

- 2020-present Graduate student collaborator of Fondecyt Project 1201786: “Reconstructing Mobility, Settlement, Technology and Ecosystem Services-use in the Atacama Desert by the end of the Pleistocene”. Calogero Santoro, Principal Investigator.
- 2016-2020 Graduate student collaborator of Fondecyt Project 1160744: “Cultural landscapes and paleoenvironmental change at the end of the Pleistocene: Exploring and explaining the earliest peopling of the Atacama Desert”. Calogero Santoro, Principal Investigator.
- 2016-2019 Graduate student collaborator, International Cooperation Project-CONICYT 225331: Reconstructing landscapes, climate and human ecology during the late Pleistocene in the Atacama Desert of northern Chile. José Capriles, Principal Investigator.
- 2015-2018 Graduate student collaborator, Project CONICYT-PIA/Anillo SOC1405: Cambios sociales y variabilidad climática a largo plazo en el Desierto de Atacama. Calogero Santoro, Principal Investigator.
- 2015 Co-Investigator of Fondecyt Project 1150031 “Ancient DNA, population

- dynamics and social change during the Late Archaic / Early Formative transition in northern Chile”. Francisco Rothhammer, Principal Investigator.
- 2014-2017 Collaborator of Ecos-Conicyt Project C13H02: “Perspectivas interdisciplinarias para el análisis de procesos de formación y transformación de estructuras arqueológicas en el contexto de la historia natural cultural del desierto de Atacama”. Calogero Santoro & Ramiro March, Principal Investigators.
- 2012-2016 Collaborator of Proyecto Fondecyt 1120454: “Landscape evolution in the hyperarid Atacama during the Pleistocene-Holocene transition: choices and social processes in an extreme environment (~20-21° S)”, Calogero Santoro, Principal Investigator.
- 2010-2014 Collaborator of Fondecyt Project 1100916: “Assessing the biological, hydrological and cultural impact of the Medieval Climate Anomaly (500-1350 AD) in northern and central Chile”, Claudio Latorre, Principal Investigator.
- 2007-2011 Collaborator of Fondecyt Project 1070140: “Early peopling and paleoenvironments during the Pleistocene/Holocene transition in northernmost Chile (17-21° south Lat)”, Calogero Santoro, Principal Investigator.
- 2010 Co-Investigator Fondart Project N° 9888-4: Patrimonio arquitectónico del sector de Molle Pampa, valle de Lluta: elaboración de dos expedientes técnicos para la declaración de monumentos históricos.

Teaching Experience

- Fall 2020 Graduate Teaching Assistant, ANTH160A1: World Archaeology, School of Anthropology, University of Arizona.
- Summer 2020 Instructor ANTH160D2: Origins of Human Diversity, School of Anthropology, University of Arizona (Online Summer Course).
- Spring 2018 Graduate Teaching Assistant, ANTH160D2: Origins of Human Diversity, School of Anthropology, University of Arizona.
- Fall 2017 Graduate Teaching Assistant, ANTH235: Principles of Archaeology, School of Anthropology, University of Arizona.
- 2010 and 2015 Instructor of Laboratory methods and techniques II: Lithics. Anthropology Undergraduate Program, Universidad de Tarapacá, Arica, Chile.
- 2006 Teaching Assistant of “Prehistory of Chile”, Anthropology Undergraduate Program, Universidad Academia de Humanismo Cristiano, Santiago, Chile.

Undergraduate thesis committee member

- 2020 **Thesis:** Aproximación a un espacio vacío: el sitio de aprovisionamiento lítico Salamanca 12-13, Arica, Chile **Student:** Sebastián Bravo, Universidad de Tarapacá
- 2018 **Thesis:** Alteraciones térmicas en materias primas silíceas de Quebrada Maní 12, un sitio temprano del Desierto de Atacama. **Student:** Gabriela Marcelo, Universidad de Tarapacá.
- 2016 **Thesis:** Indicadores tecnológicos del proceso de manufacture de cuentas de collar de hueso de ave en un contexto funerario del Período Formativo de la costa de Arica **Student:** Wilfredo Faundes, Universidad de Tarapacá
- 2016 **Thesis:** Aplicación de sistemas de información geográfica para la localización de sitios arqueológicos en la Pampa del Tamarugal (20,8 – 21,2°s) **Student:** Robert Ponce, Universidad de Tarapacá.
- 2012 **Thesis:** Estrategias de obtención de recursos durante **Student:** Matías Corvalán,

el Arcaico Temprano en Camarones (Norte de Chile): Universidad de Tarapacá.
una aproximación a la organización tecnológica del
sitio Cuya-3, desde el análisis del conjunto lítico.

Mentorship

- 2010 - 2016 Guide 8 professional internships for undergraduate archaeology students (Universidad de Tarapacá).
- 2016-2017 Mentorship of 6 K12 students from a public school in Tucson.
- 2017-2018 Mentorship of graduate student for the University Fellowship Program and the PhD in Anthropology Program, The University of Arizona.

Conference presentations

- 2019 *Desert pavements and the formation processes of the earliest archaeological sites in the Atacama Desert, Chile. P.C. Ugalde, J. Quade, C.M. Santoro, and V.T. Holliday. GSA Annual Meeting, Phoenix, Arizona, USA.*
- 2019 *Sociocultural trends and innovation along 13,000 years of plant use in the Atacama Desert, Chile. P.C. Ugalde, V. McRostie, E.M. Gayo, C. Latorre, and C.M. Santoro. XX INQUA (International Union for Quaternary Research) Conference, Dublin, Ireland.*
- 2019 *Formation processes of late Pleistocene archaeological sites in the Atacama Desert. P.C. Ugalde, V.T. Holliday, C.M. Santoro, and J. Quade. Society for American Archaeology 84th Annual Meeting, Albuquerque, New Mexico, USA.*
- 2018 *Geoarqueología de los sitios más tempranos de la Pampa del Tamarugal, norte de Chile. P.C. Ugalde, V.T. Holliday, & J. Quade. XXI Congreso Nacional de Arqueología Chilena, Santiago de Chile.*
- 2018 *Weathering of surficial lithic assemblages in the hyperarid core of the Atacama Desert, Chile. P.C. Ugalde, C.M. Santoro, & E.M. Gayo. Society for American Archaeology 83rd Annual Meeting, Washington, D.C., USA.*
- 2015 *Meteorización de artefactos líticos en ambientes áridos: un caso de estudio del Desierto de Atacama, norte de Chile. P.C. Ugalde, C.M. Santoro, E.M. Gayo, C. Latorre, S. Maldonado, R. De Pol-Holz & D. Jackson. Poster, XX Congreso Nacional de Arqueología Chilena, Concepción, Chile.*
- 2015 *How the first inhabitants of the Atacama Desert managed to create the foundation for a long-term human enterprise in an extreme environment. C.M. Santoro, C. Latorre, E.M. Gayo, D. Jackson, P.C. Ugalde, J. Rech & J.M. Capriles. XIX INQUA Congress, Nagoya, Japan.*
- 2014 *Poblamiento humano durante la transición Pleistoceno Holoceno en el Desierto de Atacama: evidencias arqueológicas y paleoecológicas. C.M. Santoro, C. Latorre, P. Ugalde, D. Osorio, C. Salas, K. Herrera, W. Faundes, D. Jackson, J. Capriles. 3er Congreso de Arqueología de Bolivia, La Paz, Bolivia.*
- 2012 *La "puesta en escena" de los primeros poblamientos en el norte de Chile: paleoclima y paleoecología durante la última transición glacial-interglacial. C. Santoro, C. Latorre, E. Gayo, P. Ugalde, D. Osorio, C. Salas & S. Rodríguez. XIX Congreso Nacional de Arqueología Chilena, Arica, Chile.*
- 2011 *Archaeological and paleoenvironmental evidence for a Late Pleistocene human settlement in the hyperarid core of the Atacama Desert (21°S). XVIII INQUA-Congress Quaternary Sciences – the view from the mountains. Bern, Switzerland. C.*

- 2010 Latorre, C.M. Santoro, E.M. Gayo, **P. Ugalde**, D. Osorio & C. Salas. *Grabados Rupestres de Tradición Naturalista en la zona de Oasis y Quebradas endorreicas del norte de Chile, Valles Occidentales, Andes Centro Sur: el Caso de Chacarilla 15*. C.M. Santoro, D. Valenzuela, **P.C. Ugalde**, C. Salas & C. Latorre. VIII Simposio Internacional de Arte Rupestre (VIII SIAR), San Miguel de Tucumán, Argentina.
- 2009 *Una nueva hipótesis y metodología para estudiar el poblamiento temprano del extremo Norte de Chile (17-21°) desde la variabilidad paleo-climática y paleo-ambiental*. C. Salas, **P. Ugalde**, C. Santoro, C. Latorre & D. Osorio. XVIII Congreso Nacional de Arqueología Chilena, Valparaíso.

Peer-review experience for:

Monographic Series of Sociedad Chilena de Arqueología (2015).
Journal of Lithic Studies (2019).
Estudios Atacameños, Arqueología y Antropología Surandinas (2019).
Intersecciones en Antropología (2019).
Revista Museo de Antropología (2019).

Memberships and Societies

2018 - Present: Regional Coordinator in Chile for Grupo de Estudios Geoarqueológicos de América Latina (GEGAL) – Latinamerican Geoarchaeological Study Group.
2018 – 2020: Board member of AGUA/International Student Representative (Anthropology Graduate Students at University of Arizona).
2017 - Present: Society for American Archaeology.
2019 – Present: The Geological Society of America.

Languages

Spanish: Native **English:** Fluent