

Sarah E. Oas

Curriculum Vitae

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Archaeology Southwest
300 North Ash Alley
Tucson, Arizona 85701

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EDUCATION

- 2019 Ph.D. in Anthropology, Arizona State University, Tempe.
Dissertation: *Cibola Breadstuff: Foodways and Social Transformation in the Cibola Region A.D. 1150-1400*.
Co-Chairs: Michelle Hegmon & Keith W. Kintigh
- 2013 M.A. in Archaeology, Simon Fraser University, Burnaby, B.C.
- 2010 B.A. in Anthropology, High Honors, University of Michigan, Ann Arbor.

EMPLOYMENT EXPERIENCE

- 2022-Present cyberSW Data Specialist, Archaeology Southwest, Tucson
- 2019-Present Research Associate, Crow Canyon Archaeological Center, Cortez
- 2019-2022 Center for Archaeology & Society Postdoctoral Research Associate, School of Human Evolution and Social Change, Arizona State University, Tempe
- 2013-2019 Research Assistant, School of Human Evolution and Social Change, Arizona State University, Tempe

PUBLICATIONS

Refereed Journal Articles

- Oas, Sarah E. and Karen R. Adams.
2022 The Nutritional Content of Five Southwestern U.S. Indigenous Maize (*Zea mays* L.) Landraces of Varying Endosperm Type. *American Antiquity* 87(2):284-302.

Strawhacker, Colleen, Grant Snitker, Matthew A. Peeples, Ann P. Kinzig, Keith W. Kintigh, Kyle Bocinsky, Brad Butterfield, Jacob Freeman, Sarah Oas, Margaret C. Nelson, Jonathan A. Sandor, and Katherine A. Spielmann.

2020 A Landscape Perspective on Climate-Driven Risks to Food Security: Exploring the Relationship between Climate and Social Transformations in the Prehispanic U.S. Southwest. *American Antiquity* 85(3):427-451.

Oas, Sarah E. and Mark Hauser

2017 The Political Ecology of Plantations from the Ground up. *Environmental Archaeology* 23(1): 4-12.

Michelle Hegmon, Jacob Freeman, Keith W. Kintigh, Matthew A. Peeples, Margaret C. Nelson, Sarah E. Oas, and Andrea Torvinen

2016 Assessing the Benefits of Diversity over the Long Term: Archaeological Insights from the Prehispanic US Southwest. *American Antiquity*. 81(2): 253-272.

Oas, Sarah E., D'Andrea A.C., and Derek J. Watson

2015 10,000 year history of plant use at Bosumpra Cave, central Ghana. *Vegetation History and Archaeobotany*. 24(5): 635-653.

Book Chapters

Oas, Sarah E. and Karen R. Adams

2023 40 Years of Archaeobotany at Crow Canyon and 850 Years of Plant Use in the Central Mesa Verde Region. Chapter for the *A Place of Songs: Integrating Research, Education, and American Indian Knowledge at Crow Canyon*, S. Ryan (ed.), pp. 347-358. University Press of Colorado, Boulder.

Oas, Sarah E.

2023 Secret Ingredients: Using Collections to Address Foodways and their Social Dynamics. In *Proceedings of the 2018 Southwest Symposium*, S. Nash and E. Baxter (eds.), pp. 262-277. University of Colorado Press, Boulder.

Diane Wallman and Sarah E. Oas

2020 The Environmental Archaeology of Subsistence and the Socioecological Landscape at Morne Patate. In, *Archaeology in Dominica: Everyday Ecologies and Economies at Morne Patate* edited by M. Hauser and D. Wallman, pp. 153-167. University of Florida Press, Gainesville.

D'Andrea, A., Catherine, Sarah E. Oas, and Thomas, C. Shay

2016 Wood Charcoals of Kef Zoura . In *Holocene Prehistory in the Télijdjène Basin, Eastern Algeria Capsian occupations at Kef Zoura D and Aïn Misteheyia*, edited by David Lubell, pp. 173-181. Archaeopress Archaeology, Oxford.

Manuscripts in Submission

- Hanson, Kelsey E., Samantha Fladd, Sarah E. Oas, and Katelyn Bishop
The Social Construction of Backdirt in Chaco Archaeology. Accepted for publication in *Journal of Field Archaeology*.
- Oas, Sarah E. and Christopher Schwartz. Examining Patterns in Turkey Management in the Cibola Region, A.D. 1150-1400. Chapter for forthcoming *Exploring the History of Turkey Domestication and Management*, Camilla Speller, Erin Thornton, and Eduardo Corona (eds.). Editions of the Muséum national d'Histoire naturelle, Paris. Expected 2024.

Manuscripts in Preparation

- Young, Lisa C., Hannah G. Hoover, and Sarah E. Oas. Indigenous Seed Keepers and the Watermelon. For submission to *Food, Culture, and Society*.
- Oas, Sarah E. and Matthew A. Peeples. Portion Control: An Experimental Method for Estimating Vessel Volume on Body Sherds. For submission to *Journal of Anthropological Archaeology*.
- Oas, Sarah E. and Christopher Schwartz. “A feast of meat, a day of sociability”: Archaeological and Isotopic Evidence of Turkey (*Meleagris gallopavo*) Management in the Cibola Region, A.D. 1150-1400. For submission to *Journal of Archaeological Science*.
- Oas, Sarah E. Groundstone Technologies in the Malpaso Valley Region. Chapter for the La Quemada-Malpaso Valley Archaeological Project edited volume. For submission to University of Utah Press.

Other Publications

- Oas, Sarah E.
2022 Macrobotanical Remains, Cashion AZ T:11:39 (ASM). Manuscript on file at Environmental Planning Group, LLC, Phoenix.
- Oas, Sarah E.
2022 Macrobotanical Remains, Villa Buena AZ T:12:9 (ASM). Manuscript on file at Environmental Planning Group, LLC, Phoenix.
- Oas, Sarah E.
2021 Malpaso Valley Groundstone Artifacts. Chapter for the La Quemada-Malpaso Valley Archaeological Project Informe Final, Benjamin Nelson and Andrea Torvinen (eds.). Instituto Nacional de Antropología e Historia.
- Oas, Sarah E.
2019 Tonto Natural Bridge State Park: Paleoethnobotanical Analysis of Historic Apache Roasting Feature. Manuscript on file at Tonto Natural Bridge State Park, Payson.
- Oas, Sarah E.
2020 Macrobotanical Analysis. In *Archaeological Excavations at the Massera Ruin AZ U:10:22(ASM) in Queen Creek, Maricopa County, Arizona*, edited by Christopher E. Rayle and Steve Swanson. EPG Cultural Resource Services Technical Paper No. 2018-010. Environmental Planning Group, LLC, Phoenix.

Oas, Sarah E.

2019 Macrobotanical Analysis. In *Excavations in the La Plaza Tempe Site: Report of Data Recovery for the Valor on Eighth Street Project*, edited by Christopher E. Rayle and Steve Swanson. EPG Cultural Resource Services Technical Paper No. 2018-043. Environmental Planning Group, LLC, Phoenix.

Oas, Sarah E.

2018 Macrobotanical Analysis. In *Data Recovery for WAPA's Electrical District #2 to Saguaro #2 Transmission Line Rebuild Project, Pinal County, Arizona: Final Report*, edited by Christopher E. Rayle and Steve Swanson. EPG Cultural Resource Services Technical Paper No. 2017-048. Environmental Planning Group, LLC, Phoenix.

GRANTS, FELLOWSHIPS, AND AWARDS

External Grants and Awards

2020 Dissertation Award, Society for American Archaeology
2016 NSF Doctoral Dissertation Improvement Grant (BCS 1649463): *Food and Social Transformation: Aggregation and Cibola Foodways A.D. 1200-1400* (\$10,840)
2016 Arizona Archaeological and Historical Society Research Grant (\$875.00)
2014 John Evans Dissertation Prize, Association for Environmental Archaeology, University of London

Competitive Fellowships

2013 Turkana Basin Graduate Fellowship (declined)

Internal Grants and Awards

2019 SHESC Research Award, Arizona State University
2019 SHESC Interdisciplinary Research Grant Program, Arizona State University
2017 Graduate and Professional Student Association Research Grant, Arizona State University
2016 Student Research Grant, Arizona State University
2015-19 Graduate and Professional Student Association Individual Travel Grant, Arizona State University
2013-18 Research Assistant Fellowship and Tuition Waiver, Arizona State University
2012-13 Travel and Minor Research Award, Simon Fraser University
2012 Graduate (International) Research Travel Award, Simon Fraser University
2011-12 Graduate Fellowship, Simon Fraser University
2011 Special Graduate Entrance Scholarship, Simon Fraser University
2008, 10 Carl E. Guthe Undergraduate Research Fund (2 awards), University of Michigan
2010 Cutcheon Travel Fund, University of Michigan
2008, 10 James B. Angell Scholar, (2 awards) University of Michigan

- 2006-10 University Honors, University of Michigan
2006-10 Michigan Regents Merit Award, State of Michigan

INVITED TALKS

- 2024 Oas, Sarah E. "Archaeologies of Cuisine" for the 2023-2024 Archaeology Southwest Café Series: *Nourishing Body, Soul, and Earth: Traditional Foods and Foodways*.
- 2023 Oas, Sarah E., Blake Vernon, Matt Peeples, Barbara Mills, Joshua Watts, Jeffery Clark, Steven Shackley, and Scott Ortman. "Exploring the Dynamics of Late Precontact Obsidian Procurement and Exchange Networks Across the US SW and Northwest Mexico using cyberSW" Paper presented at the 20th Biennial Southwest Symposium, Santa Fe.
- 2020 Oas, Sarah E. "The Archaeology of Food and Social Transformation" webinar for Crow Canyon Archaeology Center, July 2nd.
- 2018 Oas, Sarah E. Secret Ingredients: Using Existing Collections to Address Foodways and Their Social Dynamics. Paper presented at 16th Biennial Southwest Symposium, Denver
- 2017 Oas, Sarah E. "Food and Social Change: A Culinary History of the Southwest" for the Little Colorado Chapter of the Arizona Archaeological Society, Springerville, May 15th.

CONFERENCE ACTIVITY

Panels Organized

- 2024 Enduring Relationships: People, Plants, and the Contributions of Karen R. Adams with R.J. Sinensky, at the 89th SAA meetings in St. Louis.
- 2018 Pottery in Practice: the Production and Use of Ceramics in the Ancient Southwest with Katherine Dungan and Caitlin Wichlacz, 83rd SAA Meetings, Washington D.C.
- 2015 The Robustness and Vulnerability of Food Production and Social Change: An evaluation of interdisciplinary concepts using archaeological data, models and ethnographic observations with Jacob Freeman, 80th SAA Meetings, San Francisco.

Papers and Posters Presented

- 2024 Oas, Sarah E. and R.J. Sinensky The Black Burned Bits of Prehistory: A Celebration of Dr. Karen R. Adams.

- 2022 Oas, Sarah E. and Samantha G. Fladd. Complementary and Contradictory: Examining Gender Identities through the Lens of Food Preparation in Chacoan History. Paper presented at the 87th SAA meetings in Chicago
- 2022 Samantha G. Fladd and Sarah E. Oas. Mealing Matters: Revisiting Women's Spaces as Counterpublics in the Pueblo Southwest. Paper presented at the 87th SAA meetings in Chicago.
- 2022 Lisa Young, Sarah E. Oas, and Hanna Hoover. Native American Seed Keepers and the Watermelon. Paper presented at the 87th SAA meetings in Chicago.
- 2021 Oas, Sarah E. Relating to and Through Food: Addressing the Social Dimensions of Food through Cuisine and Commensality. Paper presented at the 86th SAA meetings, San Francisco.
- 2020 Oas, Sarah E., and Matthew A. Peeples. Portion Control: Estimating Vessel Volume and Storage Capacity in the Eastern Cibola Region, New Mexico. Poster presented at the 17th Biennial Southwest Symposium, Phoenix.
- 2019 Oas, Sarah E. and Christopher Schwartz. "A feast of meat, a day of sociability": Examining Patterns in Turkey Management in the Cibola Region, AD 1150-1400. Paper presented at 84th SAA Meetings, Albuquerque.
- 2019 Gregson Schachner, Matthew Peeples and Sarah E. Oas. Keith Kintigh and the Cibola Region over the Long Term. Paper presented at 84th SAA Meetings, Albuquerque.
- 2018 Oas, Sarah E. Feeding and Consuming: Ceramic Vessels and Cibola Foodways. Paper presented at 83rd SAA Meetings, Washington D.C.
- 2017 Oas, Sarah E. Prehistoric Foodways and Social Transformation in the Cibola Region. Paper presented at 116th AAA Meetings, Washington D.C.
- 2017 Oas, Sarah E. Plantation Environments and Economics: Household Food Practices at Morne Patate. Paper presented at 82nd SAA Meetings, Vancouver.
- 2016 Oas, Sarah E. and Mark Hauser. The Political Ecology of Plantations from the Ground up. Paper presented at 81st SAA Meetings, Orlando.
- 2015 Oas, Sarah E. Settlement Reorganization and the Use of Plant Foods in the Cibola Area A.D. 900-1400. Poster presented at 80th SAA Meetings, San Francisco.
- 2014 Freeman, Jacob and Sarah E. Oas. The Robustness of Plant Assemblages to Climate Shocks and the Evolution of Agroecological System. Paper presented at 3rd International Science and Policy Conference on the Resilience of Social and Ecological Systems, Montpellier.
- 2013 Oas, Sarah E. Revisiting Bosumpra: Investigating Plant Use from the Field and Forest. Paper presented at 78th SAA Meetings, Honolulu.

Discussant

- 2018 The Intangible Dimensions of Food in the Caribbean Ancient and Recent Past, 83rd SAA Meetings, Washington D.C.

TEACHING EXPERIENCE

Crow Canyon Archaeological Center

Cuisine Through Time: Art and Archaeology of Food, Course Co-Instructor with Porter Swentzell (Institute of American Indian Arts), 2021

Arizona State University

Ancient Ruins of the Southwest, Instructor of Record, 2022

Pyramids and Hieroglyphs, Teaching Assistant, 2019

Food and Culture, Teaching Assistant, 2019

Osher Lifelong Learning Institute Courses (ASU)

Excavating Collections: Museums in American Archaeology, Course Instructor, 2020

Making, Moving, and Using Pottery in the Ancient Southwest, Course Instructor, 2018

You Are What You Eat: The Social Importance of Food, Course Instructor, 2017

Simon Fraser University

Human Origins, Tutor Marker, 2013

Ancient Peoples and Places, Teaching Assistant 2011-2012

Old World Archaeology, Teaching Assistant and Section Instructor, 2012

RESEARCH EXPERIENCE

2019-present Ancient mitochondrial DNA analysis of turkey remains in the U.S. Southwest, SHESC Research Award, Arizona State University.

2019-2022 How and why do food technological systems change?, SHESC Interdisciplinary Research Grant Program. Project Archaeologist, Arizona State University.

2019-2022 Developing a Comprehensive Database of Archaeological Maize for Colorado and the Greater Southwest, History Colorado State Historical Fund (#2019-M2-001), Dr. Mark Varien and Stewart Koyiyumptewa, Co-PI. Project Paleoethnobotanist, Crow Canyon Archaeological Center.

2018-2022 Zuni Foodways Project, Co-Director Jim Enote, Zuni Pueblo.

2015-17 Designing SKOPE: Synthesized Knowledge of Past Environments, NSF BCC: Collaborative Research (#SMA-1439591), Dr. Keith Kintigh and Dr. Ann Kinzig Co-PI. Research Assistant, Arizona State University.

2013-15 Long-Term Coupled Socioecological Change in the American Southwest and Northern Mexico, NSF Dynamic Coupled Natural and Human Systems Program (#CNH-1113991), Dr. Margaret Nelson, PI. Research Assistant, Arizona State University.

FIELDWORK EXPERIENCE

- 2018, 20 Zuni Foodways Project: Ethnoarchaeology and Ethnobotany of Zuni Food Production and Preparation Traditions, Zuni Pueblo. May-Oct, Feb-April.
- 2017-18 Field Technician and Project Paleoethnobotanist, Massera AZ U:10:22 (ASM) Data Recovery Project, Queen Creek, Environmental Planning Group. Jun-Sep.
- 2015-17 Field and Laboratory Assistant, Eastern Cibola Archaeology Project, Grants. Jun-Jul. Dr. Matthew Peeples, Dr. Gregson Schachner, and Dr. Paul Reed, co-PI.
- 2015-17 Field Assistant and Project Paleoethnobotanist, Archaeological Survey of Colonial Dominica, Dominica. Jun. Dr. Mark Hauser, PI.
- 2011-14 Field Supervisor, Eastern Tigray Archaeological Project, Ethiopia. Apr-Jun. Dr. Catherine D'Andrea, PI.
- 2009, 11 Assistant Environmental Staff, Gabii Project, Italy. Jun-July. Dr. Nicola Terrenato, PI.
- 2010 Environmental Research Intern, Crow Canyon Archaeological Center, Cortez. Dr. Karen Adams, Supervisor. May-Jul.
- 2010 Ethnoarchaeology of Pueblo Farming Project, Crow Canyon Archaeological Center, Cortez. May-Jul.
- 2009 Field Assistant, Șanțul-Mare Pecica Excavation, Romania, Dr. John O'Shea, PI. Jun-Aug.

SELECT LABORATORY EXPERIENCE

- 2023-present Paleoethnobotanical Consultant, Cultural Resource Management Program, Gila River Indian Community, Sacaton, AZ.
- 2021-present Macrobotanical Analyst, Sarah Oas Paleobotanical Consulting LLC, Tucson.
- 2017-20 Collections Manager and Groundstone Analyst, La Quemada-Malpaso Valley Archaeological Project, Zacatecas. Jun-Jul. Dr. Benjamin Nelson, PI.
- 2017-20 Macrobotanical Analyst, Environmental Planning Group (EPG), Phoenix.
- 2015-17 Project Paleoethnobotanist, Archaeological Survey of Colonial Dominica, Dominica. Dr. Mark Hauser, PI.
- 2012 Macrobotanical Analyst, Archaeology of the Afar salt caravan route, Ethiopia. Dr. Helina Woldekiros, PI.
- 2012 Wood Charcoal Analyst, Materials from Ghana, Goethe-Institut, Frankfurt, Germany
- 2011-13 Project Paleoethnobotanist, Forest Occupations of Ghana Project, Ghana. Dr. Derek Watson, PI.
- 2010-11 Macrobotanical Analyst and Phytolith and Starch Grain Laboratory Assistant, samples from central Ghana. Dr. Amanda Logan, PI.
- 2009-11 Macrobotanical Analyst, Șanțul-Mare Pecica Excavation Project, Romania. Dr. John O'Shea PI.

SERVICE TO PROFESSION

2016-17	2017 Annual Meeting Program Committee Member for the 82 nd SAA Meetings, Vancouver.
2020-21	Reviewer for <i>Cambridge Archaeological Journal</i>
2021-22	Reviewer for <i>Utah Archeology</i>
2021-23	Reviewer for <i>American Antiquity</i>
2023-24	Reviewer for Journal of Historic Archaeology

DEPARTMENTAL/UNIVERSITY SERVICE

2015-19	Graduate and Professional Student Association Research Grant reviewer, Arizona State University
2015	Graduate student representative for faculty hire search committee, School of Human Evolution and Social Change, Arizona State University
2014-2015	Co-Treasurer of the Anthropological Graduate Student Society, Arizona State University
2011-2013	Head of seminar committee for the Archaeological Graduate Student Caucus, Simon Fraser University
2009-2010	Vice President of the Archaeology Club, University of Michigan.

MENTORING AND COMMUNITY OUTREACH

2021	Ancient Cultures of the Southwest panel discussant for Arizona Museum of Natural History, Mesa
2018	Zuni Foodways Project workshop with <i>K'ya'na Doyenakwe</i> (Ojo Caliente Farmers Association), Zuni Pueblo.
2016-18	Mentoring Undergraduate Research Apprentices in ceramic analysis (Kelly Vannutter and Humza Ullah) and paleoethnobotany (Mark Lazlo), Arizona State University.
2015-17	Anthropological Graduate Student Society graduate student mentor
2014-19	Arizona State University Undergraduate Writing Mentor
2014	Archaeological Research Institute volunteer at the Archaeology Expo, Catalina State Park.
2011	Undergraduate Research Opportunity Program (UROP) student mentor for macrobotanical analysis, University of Michigan

RELATED PROFESSIONAL SKILLS

Illustration

2016 Illustrations for: *Guide to Saving Seeds in the Southwest: Techniques for Seed Stewardship in Aridlands*, Hought, Joy, Melissa Kruse-Peebles (eds.) Native Seeds SEARCH, Tucson.

LANGUAGES

Latin: 6 years, reading proficiency

Middle Egyptian: 2 years, reading proficiency

German: 3 years, basic conversation, reading proficiency