

Grant Snitker

Center for Forest Disturbance Science
US Forest Service, Southern Research Station
Athens, GA 30602
Tel: (503) 949-6528
Email: gsnitker.cfds@gmail.com
Web: <https://grantsnitker.github.io/>
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EDUCATION

- 2019 Ph.D. Anthropology, Arizona State University (Graduate Certificate in Museum Studies)
Dissertation: *Anthropogenic Fire and the Development of Agricultural Landscapes: Connecting Archaeology, Paleoecology, and Fire Science to Evaluate Human Impacts on Fire Regimes*
- 2013 M.A. in Anthropology, Arizona State University
- 2010 B.A. in Anthropology, Minor in Geography, Clark Honors College, University of Oregon

PROFESSIONAL APPOINTMENTS AND AFFILIATIONS

- 2020-present ORISE Postdoctoral Fellow, Center for Forest Disturbance Science, U.S. Forest Service Southern Research Station
Visiting Researcher, Department of Crop and Soil Sciences, University of Georgia
Affiliate, Center for Archaeological Sciences, University of Georgia
- 2019-20 Postdoctoral Research Associate, Department of Crop and Soil Sciences, University of Georgia
- 2018-20 Archaeologist, Okanogan Wenatchee National Forest / Washington Conservation Science Institute
- 2013-19 Graduate Research Assistant, School of Human Evolution and Social Change, Arizona State University
- 2011-13 Exhibits Manager, Deer Valley Petroglyph Preserve, Arizona State University

RESEARCH INTERESTS

Environmental Archaeology; Anthropogenic Fire; Fire Ecology of US Southeast, Western US, and Western Mediterranean; Computational Modeling in Archaeology; Geographic Information Systems (GIS), Data Analysis and Visualization in R; Charcoal Analysis; Paleoecology

PUBLICATIONS

Peer-Reviewed Articles

- 2020 **Snitker, Grant.** Charcoal Quantification Tools (CharTool): A suite of charcoal analysis tools for reconstructing fire activity in sedimentary contexts. *Ethnobiology Letters* 11(1):103–115. DOI: <https://doi.org/10.14237/eb1.11.1.2020.1653>
- 2020 Helmer, Matthew, Jennifer Lipton, **Grant Snitker**, Steve Hackenberger, Mallory Triplett, and Lee Cervený. Mapping Heritage Ecosystem Services in Ecological Restoration Areas: A Case Study from the East Cascades, Washington. *Journal of Outdoor Recreation and Tourism* 31 (2020) 100314. DOI: <https://doi.org/10.1016/j.jort.2020.100314>

- 2020 Strawhacker, Colleen, **Grant Snitker**, Matthew Peeples, Ann Kinzig, Keith Kintigh, Kyle Bocinsky, Brad Butterfield, Jacob Freeman, Sarah Oas, Margaret Nelson, Jonathan Sandor, and Katherine Spielmann. 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. DOI: <https://doi.org/10.1017/aaq.2020.35>
- 2018 **Snitker, Grant**. Identifying Natural and Anthropogenic Prehistoric Fire Regimes through Simulated Charcoal Proxy Records. *Journal of Archaeological Science* 95: 1–15. DOI: 10.1016/j.jas.2018.04.009
- 2018 **Snitker, Grant**, Agustín Díez Castillo, C. Michael Barton, Joan Bernabeu Aubán, Oretó García Puchol, and Salvador Pardo-Gordó. Patch-based survey methods for studying prehistoric human land-use in agriculturally modified landscapes: A case study from the Canal de Navarrés, eastern Spain. *Quaternary International* 483: 5–22. DOI: 10.1016/j.quaint.2018.01.034
- 2016 Díez Castillo, Agustín, Oretó García Puchol, Joan Bernabeu Aubán, C. Michael Barton, Salvador Pardo-Gordó, **Grant Snitker**, Wendy Cegielski, and Sean Bergin. Resiliencia y cambio durante el Holoceno en la Canal de Navarrés: recientes trabajos de prospección. *Archivo de Prehistoria Levantina*. 31:169-185.
- 2008 Erlandson, Jon M., Todd J. Braje, and **Grant Snitker**. Two chipped stone crescents from CA-SMI-680, Cardwell Bluffs, San Miguel Island, California. *Current Research in the Pleistocene* 25:81-83.

Peer-Reviewed Book Chapters

- accepted **Snitker, Grant**. Identifying the influence of Neolithic agro-pastoral land-use on Holocene fire regimes through simulated sedimentary charcoal records: Case studies from Eastern Spain. In *Simulating the Transition to Agriculture and Its Ecological and Cultural Consequences*, edited by Sean M. Bergin and Salvador Pardo-Gordó. Springer, New York.
- accepted Barton, C. Michael, Isaac IT Ullah, Nicolas Gauthier, Nari Miller, **Grant Snitker**, Irene Esteban, Joan Bernabeu Aubán, and Arjun Heimsath. 'Digital Proxies' for Validating Models of Past Socio-Ecological Systems in the Mediterranean Landscape Dynamics Project. In *Simulating the Transition to Agriculture and Its Ecological and Cultural Consequences*, edited by Sean M. Bergin and Salvador Pardo-Gordó. Springer, New York.
- 2017 Strawhacker, Colleen, **Grant Snitker**, Katherine Spielmann, Maryann Wasiolek, Jonathan Sandor, Ann Kinzig, and Keith Kintigh. Risk Landscapes and Domesticated Landscapes: Food Security in the Salinas Province. In *Landscapes, Mobilities, and Social Transformations: Arriving at the Fifteenth Century in the Pueblo Rio Grande*, edited by Katherine Spielmann, pp. 124–150. University of Arizona Press.

Publicly Available Software, Scripts, and Online Tools

- 2020 **Snitker, Grant**. TRS (Township/Range/Section) Conversion Tool for National Forest Lands in Central and Eastern Washington. Retrieval from: https://grantsnitker.shinyapps.io/TRS_Conversion_Tool/
- 2019 **Snitker, Grant**. Charcoal Fragment Quantification Tools (CharTool): ImageJ macros version 2.0. Retrieval from: DOI: <http://doi.org/10.5281/zenodo.1434479>

- 2019 **Snitker, Grant.** Long-Term Vulnerability and Transformation Project (LTVTP) Risk Landscapes Model Scripts. Suite of R Scripts version 2.0 Retrievable from: Github, DOI: <https://doi.org/10.5281/zenodo.3377717>
- 2018 **Snitker, Grant.** Charcoal Record Simulation Model (CharRec): Netlogo model version 1.5.0. CoMSES Computational Model Library. Retrievable from: <https://www.comses.net/codebases/4795/releases/1.5.0/>
- 2017 **Snitker, Grant.** GIS charcoal source area model for archaeological applications (CharSource). R Script version 2.0. Retrievable from: Github, DOI: <http://doi.org/10.5281/zenodo.1434430>

Technical Reports

- 2019 **Snitker, Grant** and Heather Davis. Cultural Resources Inventory Report for the Taneum Watershed Restoration Project, Cle Elum Ranger District, Okanogan-Wenatchee National Forest: Report Number R2018061703004. Submitted to the Okanogan-Wenatchee National Forest Supervisor's Office, Wenatchee, Washington.
- 2015 **Snitker, Grant.** Anthropogenic Fire and Paleo-Charcoal Study at Chavez Pass, AZ: 2015 Report. Submitted to the Coconino National Forest Supervisor's Office, Flagstaff, AZ.
- 2015 **Snitker, Grant.** A Spatial Analysis of Archaeological Sites, Vegetation, and Artifacts within the Agua Fria National Monument: Legacies on the Landscape 2013 Field Season. In *Final Report of the Spring 2013 Field Season, Legacies on the Landscape: Agua Fria National Monument and Tonto National Forest*, edited by Katherine Spielmann, pp. 45-52. Submitted to the Bureau of Land Management, Phoenix, Arizona.
- 2014 Rivers-Cofield, Sara, Jodi Reeves Flores, Francis P. McManamon, Adam Brin, **Grant Snitker**, Chelsea Walter, Michael A. Smolek, and Amanda Vtipil. Evaluating a Cooperative Approach to the Management of Digital Archaeological Records. Submitted to Department of Defense Legacy Resource Management Program, Project 13-711.

Other Professional Contributions

- 2020 Zierden, Martha A., Carla S. Hadden, Sarah E. Platt, Barnet Pavao-Zuckerman, Laurie J. Reitsema, Elizabeth J. Reitz, Hayden R. Smith, and **Grant Snitker**. Exploring the Cattle Economy of Colonial South Carolina. *The SAA Archaeological Record* 20(3): 40-43.
- 2019 Levi, Matthew, Erik Krueger, **Grant Snitker**, Tyson Ochsner, Miguel Villarreal, Emile Elias, and Dannele Peck. Enhancing Fire Danger Ratings from the Ground up using Soil Moisture. *Eos: Earth & Space Science News* 100, <https://doi.org/10.1029/2019EO137858>
- 2018 Hegmon, M., Peeples, M.A. on behalf of the LTVTP-NABO collaboration (**Grant Snitker** listed as a contributing member of LTVTP-NABO collaboration). The human experience of social transformation: Insights from comparative archaeology. *PLOS ONE* 13:1–29. DOI: <https://doi.org/10.1371/journal.pone.0208060>
- 2014 **Snitker, Grant.** “Notes from the Field” report on NSF-funded fieldwork in Valencia, Spain. Published in the SAA Geoarchaeology Interest Group Fall Newsletter.
- 2008 **Snitker, Grant.** Investigation and Identification of “Fourteen Willow Sticks” from the Chewaucan Cave Cache. *Current Archaeological Happenings in Oregon*. 33(3):6-7.

Works in Progress

- under review Krueger, Erik S., Tyson E. Ochsner, Matthew R. Levi, Jeffrey B. Basara, and **Grant Snitker**. Grassland productivity estimates informed by soil moisture measurements: Statistical and mechanistic approaches. Manuscript submitted to *Agronomy Journal*.
- in prep. **Snitker, Grant** and Matthew Levi. An improved simulation for modeling soil moisture and wildfire risk. Manuscript intended for *Fire Ecology*.
- in prep. **Snitker, Grant**, Sean Bergin, and Pete Cadena. R-based solutions for synthesizing archaeological survey data to assess changing land-use patterns in the Okanagan-Wenatchee National Forest, WA. Manuscript intended for *Archaeology in Washington*.
- in prep. **Snitker, Grant**. Anthropogenic fire and the origins of agricultural landscapes: Long-term human niche construction in Mediterranean ecosystems. Manuscript intended for *American Antiquity*.

GRANTS, FELLOWSHIPS, AND AWARDS

Major External Research Grants

- 2020-23 *Movilidad y conectividad de las comunidades prehistóricas en el Mediterráneo Occidental durante*
€97,824 *la prehistoria reciente: El caso de las Islas Baleares (English: Mobility and connectivity of*
(\$115,603) *prehistoric communities in the Western Mediterranean during recent prehistory: A case study*
 from the Balearic Islands). Grant # PID2019-108692GB-I00. PI: Manuel Calvo Trias,
 International Research Collaborators: **Grant Snitker**. Funding through Ministerio de Ciencia,
 Innovación y Universidades.
- 2020-21 *Paleo-fire, soil, and pollen study on the Francis-Marion National Forest, South Carolina*. Francis-
\$5,000 Marion National Forest Cooperative Agreement. PIs: Carla Hadden and **Grant Snitker**.
 Funding through USFS Fire and Heritage teams to study fire and vegetation history of Hell
 Hole Swamp, SC.
- 2019-21 *Expanding the Functionality and User-Accessibility of the Newhall Simulation Model through an*
\$117,339 *Updated R Implementation*. Grant # NR193A750025C007. PIs: Matthew Levi and **Grant**
 Snitker. Funding through the USDA Natural Resources Conservation Service Research Grant
 Program.
- 2018-20 *LEIA Paleoenvironmental Pilot Project*. University of Washington Quaternary Research Center
\$10,820 Research Grant. PI: Marcos Llobera. Senior Personnel: **Grant Snitker**, Gabriel Servera-
 Vives, Llorenç Picornell Gelabert, Nari Miller and Jordi Hernandez-Gasch. Funding through
 University of Washington Quaternary Research Center Research Grant Program.
- 2014-18 *Anthropogenic Fire and the Origins of Agricultural Landscapes: Human Niche Construction*
\$28,861 *during the Neolithic Period in Eastern Spain*. Grant # 1656342. PIs: **Grant Snitker** and C.
 Michael Barton. Funding through the National Science Foundation Doctoral Dissertation
 Research Improvement Award.

Fellowships

- 2018-19 School of Human Evolution and Social Change Dissertation Completion Fellowship, Arizona State
\$18,000 University
- 2012 National Science Foundation Graduate Research Fellowship (GRFP) – tuition and stipend over 3
\$36,000 years
/year

Minor and Internal Research Grants

2016 \$1,795	Graduate Education Research Support Program Grant, Graduate and Professional Student Association, Arizona State University
2016 \$3,000	ASU Graduate Research Award, School of Human Evolution and Social Change, Arizona State University
2016 \$500	Arizona Archaeological and Historical Society Research Grant
2016 \$500	Jumpstart Research Grant, Graduate and Professional Student Association, Arizona State University
2014 \$1,780	ASU Graduate Research Award, School of Human Evolution and Social Change, Arizona State University

Travel Grants

2018 \$270	TREE (Travel, Research and Educational Experience) Travel Grant, Association for Fire Ecology (declined, could not attend)
2018 \$881	Individual Travel Grant, Graduate and Professional Student Association, Arizona State University
2016 \$3,150	Group Travel Grant, Graduate and Professional Student Association, Arizona State University
2015 \$575	TREE (Travel, Research and Educational Experience) Travel Grant, Association for Fire Ecology
2012 \$200	Graduate Student Travel Grant, Jumpstart Research Grant, School of Human Evolution and Social Change, Arizona State University

Honors, Awards, and Scholarships

2018	Ruppé Prize in Archaeology (Outstanding graduate student paper), School of Human Evolution and Social Change, Arizona State University
2016	Graduate Student Poster Contest Winner, Institute for Social Science Research, Arizona State University
2015-17	Graduate Excellence Award, College of Liberal Arts and Sciences, Arizona State University
2010	Jones Award, Oregon Archaeological Society

INTERDISCIPLINARY RESEARCH PROJECTS

Current

2019-present	Wildfire probability mapping based on regional soil moisture models <u>Senior Researcher</u> Modeling and mapping soil moisture across the western US to predict wildfire occurrence and risk. Collaboration between the USGS South Central Climate Adaptation Science Center, USDA SW Climate Hub, University of Oklahoma, and University of Georgia.
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- 2019-present Developing a spatial and temporal proxy of fire occurrence and intensity through an examination of soil magnetism in iron-rich soils
Co-Principal Investigator and Laboratory Instructor
Project through the UGA College of Agricultural and Environmental Sciences Undergraduate Research Initiative to design and implement field-based research to develop a spatial and temporal proxy of fire using soil magnetism in Georgia Piedmont soils.
- 2019-present Emergence and Evolution of a Colonial Economy Project
Senior Researcher
Interdisciplinary project and to examine the origins and evolution of the cattle industry within the South Carolina coastal plain, particularly as it relates to changing fire activity and longleaf pine savannah ecosystem dynamics.
- 2018-present Cascades Corridor Land-use Project
Principal Investigator and Fieldwork Director
In partnership with the USFS, compile forest-wide spatial synthesis of archaeological survey data to evaluate changing land-use intensities from the late Pleistocene to the historic period using Bayesian methods. Additionally, systematically survey understudied alpine and subalpine regions to understand the long-term influence of fire in these ecosystems.
- 2017-present Landscape, Encounters, and Identity (LEIA) Project
Senior Researcher, Paleofire Expert
Interdisciplinary project and field school (University of Washington and Universitat de les Illes Balears) examining landscape transformation and cultural change in pre- and proto-historic Mallorca, Spain.
- Previous**
- 2015-19 Anthropogenic Fire and the Origins of Agricultural Landscapes Project
Co-Principal Investigator and Fieldwork Director
NSF-funded archaeology and paleoecology project to explore the process of niche-construction and anthropogenic fire during the transition to agro-pastoral subsistence in eastern Spain.
- 2014-19 The Emergence of Coupled Natural and Human Landscapes in the Western Mediterranean (MedLanD) Project
Graduate Researcher
NSF-funded project evaluating the emergence of coupled social-ecological systems on landscape erosion and deposition dynamics through modeled and empirical archaeological and paleoecological data from eastern Spain.
- 2015-18 Long-Term Vulnerabilities and Transformations Project (LTVTP)
Graduate Researcher and GIS Specialist
Modeling long-term social and ecological resilience of prehispanic (AD 900-1540) societies in the Greater U.S. Southwest using soil, climate, and archaeological data.
- 2017-18 Communicating Hazard Information in the Modern Environment (CHIME) Project
Graduate Researcher
Improving hazardous weather risk communication and response by integrating models of extreme weather events and social perceptions of warnings and evacuation orders.
- 2015-17 Prehistoric Fire Project at Chavez Pass, AZ
Co-Principal Investigator and Fieldwork Director
Developing and testing GIS models of charcoal dispersion and deposition as related to prehistoric fire regimes on the Colorado Plateau.

EDUCATIONAL PROGRAMS AND MUSEUM EXHIBITS

- 2012-16 The Agave Research Exhibit
 Curator
 May 2012-September 2016, Deer Valley Petroglyph Preserve, Center for Archaeology and Society,
 Arizona State University
- 2013 Looking for the Future in the Past: Archaeology's Long-Term View
 Contributor
 February - May 2017, Center for Archaeology and Society, Arizona State University
- 2012-13 Changing Landscapes: A Closer Look at Baby Canyon Pueblo
 Curator
 October 2012 – May 2013, Deer Valley Petroglyph Preserve, Center for Archaeology and Society,
 Arizona State University

TEACHING

Instructor

- Fall 2019 - CRSS 4960: Undergraduate Research in Crop and Soil Sciences, University of Georgia
Spring 2020 Developed course to teach research methods in soil laboratory methods, GIS methods, and
 field sampling.
- Spring - ASM 484: Research Apprenticeship, Arizona State University
Fall 2016 Developed course to emphasize hands-on/participatory instruction in archaeology-related
 methods and theory for non-anthropology majors for two undergraduate cohorts.
- Summers ANTH 408: Fieldwork in Archaeology, University of Oregon
2010-11 Led fieldwork-based instruction in excavation and survey methods for two cohorts.

Guest Lectures and Lecture Series

- Spring Guest lecturer for ASB 231: Intro to Archaeological Field Methods, Mesa Community College
2018 Lecturer for session on paleoecology and environmental archaeology.
- Spring Guest lecturer for ASB 326: Human impacts on the Environment, Arizona State University
2018 Lecturer for session on archaeology of the peopling of North America.
- Fall 2017 Lecturer for the Osher Lifelong Learning Institute Series, Arizona State University
 Developed lecture on general archaeological and paleoecological methods/theory.
- Spring Guest lecturer for ASB 222: Buried Cities and Lost Tribes, Arizona State University
2016 Lecturer for session on archaeology of climate/environmental change.

Other Teaching and Mentoring Activities

- 2019-20 Certificate in Certificate in Diversity & Inclusion in Higher Education, Office of Institutional
 Diversity, University of Georgia
- 2019 Mentor to Young Scholars Program student participant, College of Agricultural and Environmental
 Sciences, University of Georgia

CONFERENCE PRESENTATIONS, WORKSHOPS, AND FORUMS

Workshops Co-organized

- 2019 *Soil Moisture and Wildfire Prediction Workshop*. Workshop hosted at the IAWF 6th International Fire Behavior and Fuels Conference in Albuquerque, NM. April 29, 2019.

Symposia Organized

- Postponed to 2021 *Archaeological approaches to anthropogenic fire and global pyrodiversity*. Forum at the 85th Annual Meeting of the Society for American Archaeology, in Austin, TX. April 22-26, 2020.
- 2016 *Human-Environmental Interactions in the Mediterranean Basin*. Symposium at the 81st Annual Meeting of the Society for American Archaeology, in Orlando, FL. April 6-10, 2016. Co-organizer: Sean Bergin

Invited Presentations

- 2020 Levi, Matt, **Grant Snitker**, Matthew Molini, Damian Hans and Joan Deitsch. *Using soil magnetic susceptibility to understand fire history and burn severity in Georgia*. Paper presented at the Universities for a Greener Georgia Conference (Virtual). May 7-8, 2020
- 2018 **Snitker, Grant**. *Identifying the Influence of Neolithic Agro-Pastoral Land-use on Holocene Fire Regimes through Simulated Sedimentary Charcoal Records*. Paper presented at the 24th Annual Meeting of the European Association of Archaeologists, Barcelona. September 5-8, 2018.
- 2018 Bergin, Sean and **Grant Snitker**. *Vegetation Transformation during the European Neolithic: The Effects of Agro-Pastoral Subsistence on Plant Communities in Europe*. Paper presented at the 24th Annual Meeting of the European Association of Archaeologists, Barcelona. September 5-8, 2018.
- 2018 Barton, C. Michael, Isaac I.T. Ullah, Nicolas Gauthier, Nari Miller, **Grant Snitker**, Irene Esteban, Joan Bernabeu Auban, and Arjun Heimsath. *'Digital Proxies' for Validating Models of Past Socio-Ecological Systems in the Mediterranean Landscape Dynamics Project*. Paper presented at the 24th Annual Meeting of the European Association of Archaeologists, Barcelona. September 5-8, 2018.
- 2018 **Snitker, Grant**. *The Nuts and Bolts of Agent-Based Modelling for Archaeological Science*. Paper presented during forum discussion at the 83rd Annual Meeting of the Society for American Archaeology, Washington, D.C. April 11-15, 2018.
- 2018 **Snitker, Grant**. *Anthropogenic Fire and the Origins of Agricultural Landscapes during the Neolithic Period (7,700-4,500 cal. B.P.) in Eastern Spain*. Paper presented at the 83rd Annual Meeting of the Society for American Archaeology, Washington, D.C. April 11-15, 2018.
- 2017 **Snitker, Grant**. *Fire, Humans, and Landscape Change: Simulating Charcoal Proxy Records to explore Anthropogenic Fire and Neolithic Landscapes in the Western Mediterranean*. Paper presented at the COMSES Net Virtual Conference 2017, Tempe, AZ. Online October 2-20, 2017.
- 2017 Strawhacker, Colleen, **Grant Snitker**, Keith Kintigh, Ann Kinzig, and Katherine Spielmann. *Measuring Risk to Food Security in the Prehispanic U.S. Southwest: The Salinas Region in the Broader Southwest World*. Paper presented at the 82nd Annual Meeting of the Society for American Archaeology, Vancouver, BC. March 29-April 2, 2017.

- 2016 **Snitker, Grant.** *Fire, Humans, and Landscape Evolution: Modeling Anthropogenic Fire and Neolithic Landscapes in the Western Mediterranean.* Paper presented at the 81st Annual Meeting of the Society for American Archaeology, Orlando, FL. April 6-10, 2016.
- 2015 **Snitker, Grant.** *Linking the Social and Ecological Dynamics of Anthropogenic Fire Regimes through Agent-Based Modeling (ABM) and Geographic Information Systems (GIS).* Paper presented at the 6th Association for Fire Ecology Fire Congress, San Antonio, TX. November 16-20, 2015.
- 2013 McGovern, Thomas, Jette Arneborg, Seth Brewington, Laura Comeau, Andrew Dugmore, George Hambrecht, Keith Kintigh, Christian Madsen, Michelle Hegmon, Scott Ingram, Margaret Nelson, Richard Oram, Matthew Peeples, Brenda Shears, Ian Simpson, Konrad Smiarowski, **Grant Snitker**, Katherine Spielmann, Colleen Strawhacker, Andrea Torvinen, and Orri Vésteinsson. *Completed Long-Term Experiments? Mobilizing Archaeology in the Anthropocene.* Paper presented at the Theoretical Archaeology Group, Chicago, IL. May 9-11, 2013.

Contributed Presentations and Posters

- Postponed to 2021 **Snitker, Grant**, Sean M. Bergin, and Pete Cadena. *R-based solutions for synthesizing archaeological survey data to assess changing land-use patterns in the Okanagan-Wenatchee National Forest, WA.* Poster to be presented at the 85th Annual Meeting of the Society for American Archaeology, Austin, TX. April 22-26, 2020.
- 2020 Levi, Matt and **Grant Snitker.** *An improved Newhall simulation for modeling soil moisture and temperature regimes.* Poster presented at the 2020 Southern Regional Cooperative Soil Survey Conference (Virtual). May 19-21, 2020.
- 2019 **Snitker, Grant**, Matt Levi, Erik Krueger, and Tyson Ochsner. *An improved Newhall Simulation Model for predicting soil moisture.* Poster presented at the 2019 American Geophysical Union Fall Meeting, San Francisco, CA. December 9-13, 2019.
- 2019 Deitsch, Joan, Matt Levi, **Grant Snitker**, David Leigh, and Jill Mullican. *Soils remember the human footprint on the landscape.* Poster presented at the 2019 Young Scholars Pre-Collegiate Research Conference, Athens, GA. July 10, 2019.
- 2019 **Snitker, Grant** and Sean Bergin. *Did the Neolithic Revolution Revolutionize the European Landscape? An analysis of the relationship between climate, vegetation, and the arrival of agro-pastoral subsistence.* Poster presented at the 84th Annual Meeting of the Society for American Archaeology, Albuquerque, NM. April 10-14, 2019.
- 2018 Bergin, Sean and **Grant Snitker.** *Large-Scale Socioecological Transformation: The Effects of Subsistence Change on Holocene Vegetation across Europe.* Poster presented at the 83rd Annual Meeting of the Society for American Archaeology, Washington, D.C. April 11-15, 2018.
- 2017 Díez Castillo, Agustín, **Grant Snitker**, Joan Bernabeu Aubán, Oreto García Puchol, Salvador Pardo-Gordó, and C. Michael Barton. *Examen de las dinámicas socio-ecológicas en el valle medio del Xuquer (Valencia) desde el Paleolítico Medio hasta el Calcolítico.* Paper presented at the XII Congreso Ibérico de Arqueometría, Burgos, Spain. October 25-28, 2017.
- 2017 Ullah, Isaac, Nicholas Gauthier, Nari Miller, and **Grant Snitker.** *Connecting the Human and Natural: Coupled Human-Earth Systems Models and the “Digital Proxy Record.”* Poster presented at the 2017 Community Surface Dynamics Modeling System Annual Meeting, Boulder, CO. May 23-25, 2017.

- 2017 **Snitker, Grant.** *Reconstructing Anthropogenic Fire Regimes Using Multidisciplinary Methods: Preliminary Results from the Neolithic (7,700–4,500 cal. BP) in Eastern Spain.* Paper presented at the 82nd Annual Meeting of the Society for American Archaeology, Vancouver, BC. March 29-April 2, 2017.
- 2014 Diez Castillo, Agustín, Joan Bernabeu Aubán, Michael C. Barton, Oreto García Puchol, Sean Bergin, Salvador Pardo-Gordó, Wendy H. Cegielski, and **Grant Snitker.** *Paperless survey? New methodological approaches to archaeological fieldwork, the case of La Canal de Navarrés (València).* Paper presented at the Workshop: Dando sentido a la prospección arqueológica, Jaén, Andalucía, Spain. November 13-14, 2014.
- 2014 **Snitker, Grant.** *Exploring the Dynamics of Anthropogenic Fire Regimes through Agent Based Modeling (ABM) and Geographic Information Systems (GIS).* Poster presented at the 79th Annual Meeting of the Society for American Archaeology, Austin, TX. April 23-27, 2014.
- 2014 Cegielski, Wendy, **Grant Snitker**, Gayle Timmerman, C. Michael Barton, and Bette Otto-Bliesner. *Reconstructing Local Paleoclimate Data with Global and Local Variables: A Re-examination of “Downscaling” with Updated Paleoclimate Models.* Poster presented at the 79th Annual Meeting of the Society for American Archaeology, Austin, TX. April 23-27, 2014.
- 2013 **Snitker, Grant**, Andrea Torvinen, and Rhian Stotts. *Testing the Application of Adaptive Governance of Common Pool Resources: An Archaeological Perspective.* Poster presented at the 78th Annual Meeting of the Society for American Archaeology, Honolulu, HI. April 3-7, 2013.
- 2012 Torvinen, Andrea, **Grant Snitker**, and Rhian Stotts. *An Archaeological Perspective on Adaptive Governance of Common Pool Resources.* Poster presented at the 1st Annual Human Ecodynamics Research Center Open Workshop in Sustainability and Education, New York, NY. October 15, 2012.
- 2010 Jenkins, Dennis L., **Grant Snitker**, Craig E. Skinner, Jennifer J. Thatcher, Thomas M. Origer, and Janine M. Loyd. *Current Results of Obsidian Sourcing and Hydration Studies at the Paisley Caves, Oregon.* Paper presented at the 63rd Northwest Anthropological Conference, Ellensburg, WA. March 25-28, 2010.

SERVICE

Departmental Service

- 2019-20 Extension programming volunteer, including annual community corn boil and 4-H summer camp soil tour. Department of Crop and Soil Sciences, University of Georgia.
- 2013-14 Treasurer, Association of All Graduate Students (AAGS), School of Human Evolution and Social Change, Arizona State University
- 2012-13 Mentor for incoming graduating students, School of Human Evolution and Social Change, Arizona State University

Reviewer

Quaternary International; Palaeogeography, Palaeoclimatology, Palaeoecology; Nature Sustainability; Fire; Frontiers in Earth Science

Invited Public Lectures

- 2020 *Exploring the Interplay between Climate and People in the Ancient US Southwest*. Webinar given at the Crow Canyon Archaeological Center Webinar Series, September 3, 2020.
- 2020 *Anthropogenic Fire and the Development of Neolithic Agricultural Landscapes: Connecting Archaeology, Paleoecology, and Fire Science to Evaluate Human Impacts on Fire Regimes*. Presentation given at the Pennsylvania State University Department of Anthropology, February 11, 2020.
- 2019 *Creating new connections between archaeology, paleoecology, and fire science to evaluate long-term human impacts on fire regimes*. University of Georgia, Joint Georgia Initiative for Climate & Society and Center for Archaeological Sciences seminar series.
- 2017 *Anthropogenic Fire and the Origins of Agricultural Landscapes Human Niche Construction (HNC) during the Neolithic (7,700-4,200 cal. BP) in Eastern Spain*. University of Washington, Department of Anthropology, Friday Afternoon Archaeology Lecture Series.
- 2015 *Summary of 2015 Fieldwork*. Arizona State University, School of Human Evolution and Social Change, Summer Research and Fieldwork Symposium (SuRFS).

Other Service

- 2017-19 Co-Organizer of Interagency Fire Archaeology Cohort monthly calls and meetings
- 2016 Intel International Science and Engineering Fair Grand Awards Judge, Behavioral and Social Sciences, Phoenix, AZ
- 2014-16 Conference Volunteer - 81st Annual Meeting of the Society for American Archaeology, Orlando, FL; 6th Annual Congress for the Association for Fire Ecology, San Antonio, TX; 79th Annual Meeting of the Society for American Archaeology, Austin, TX

OTHER PROFESSIONAL EXPERIENCE

- 2019-present Member of the Register of Professional Archaeologists (RPA)
- 2010, -11, -15, -18 Seasonal Archaeological Resource Advisor (BAER) and Wildland Firefighter (FFT2 Qualified and FFT1 Trainee) with the US Forest Service (Okanogan-Wenatchee National Forest, WA; Coconino National Forest, AZ; Deschutes National Forest, OR).
- 2016 Klamath River Prescribed Fire Training Exchange (TREX), Collaborative wildland firefighting training between the US Forest Service, the Nature Conservancy, and the Karuk Tribe, Happy Camp, CA.
- 2014 Arizona Wildfire and Incident Management Academy, Basic Wildland Firefighting training, Prescott, AZ

PROFESSIONAL MEMBERSHIPS

Association for Washington Archaeology
American Geophysical Union
Interagency Fire Archaeology Cohort
PAGES (Past Global Changes)
Soil Science Society of America
Society for American Archaeology