

Jeremy L. Weiss, PhD

Climate and Geospatial Extension Scientist
School of Natural Resources and the Environment
University of Arizona
1064 East Lowell Street
Tucson, AZ 85721
(520) 626-8063
jlweiss@arizona.edu
Website: cals.arizona.edu/research/climategem
LinkedIn: www.linkedin.com/in/jeremylweiss
Twitter: @jeremylweiss

HIGHER EDUCATION

- 2012 **Doctor of Philosophy**, University of Arizona
- major: geosciences (climate dynamics)
 - minor: natural resources
 - advisor: Dr. Jonathan T. Overpeck
 - thesis: "Spatiotemporal Measures of Exposure and Sensitivity to Climatic Variability and Change: The Cases of Modern Sea Level Rise and Southwestern U.S. Bioclimate"
- 2002 **Master of Science**, University of New Mexico
- major: earth and planetary sciences (climatology)
 - advisor: Dr. David S. Gutzler
 - thesis: "Relating Vegetation Variability to Meteorological Variables at the Sevilleta National Wildlife Refuge, New Mexico"
- 1998 **Bachelor of Science**, Arizona State University, *summa cum laude*
- major: botany (horticulture)
 - minor: Spanish

HONORS & AWARDS

- 2018 Laureate, Campus France "Make Our Planet Great Again - Short Stay Program"
- 2016 Environmental Research Letters 10th Anniversary Collection
- 2012 Galileo Circle Scholar
- 2010 Tony Gonzales Excellence in GIS Scholarship
- 2009 William G. McGinnies Scholarship in Arid Lands Studies
- 2002 Master of Science degree examination passed with distinction
- 2002 Geology Alumni Scholarship
- 2001 Jerry Harbour Memorial Scholarship
- 1998 Outstanding Graduating Senior Award, Department of Plant Biology
- 1997-1998 Mike Krantz Memorial Fund Scholarship
- 1996-1998 Dougherty Foundation Scholarship Award
- 1995 Phi Kappa Phi Honor Society
- 1993-1996 Award for Outstanding Scholarship
- 1993-1996 Hudson Achievement Award
- 1993-1996 Northern Arizona University Academic Award

PROFESSIONAL EXPERIENCE

- 2014-present **Climate and Geospatial Extension Scientist**, University of Arizona Cooperative Extension, Tucson AZ
- 2013-2014 **Research Scientist**, University of Arizona, Tucson AZ
- 2012-2014 **Scientific and Technical Consultant**, Tucson AZ

2002-2013	Senior Research Specialist , University of Arizona, Tucson AZ
2000-2002	Research Assistant , University of New Mexico, Albuquerque NM
1999-2000	Biologist , Taschek Environmental Consulting, Albuquerque NM
1998-1999	Research Technician , University of Arizona Cooperative Extension, Phoenix AZ
1997	Research Assistant , Arizona State University, Tempe AZ

PUBLICATIONS

Peer-reviewed

20. Wasley E, Jacobs K, **Weiss J** (2020) Climate Data and Information Spectrum for Case Studies, The Water Research Foundation, www.waterrf.org/resource/climate-data-and-information-spectrum-case-studies
19. Wasley E, Jacobs K, **Weiss J** (2020) Mapping Climate Exposure and Climate Information Needs to Water Utility Business Functions Appendix E: Water Utility Business Risk and Opportunity Profiles, The Water Research Foundation, 53pp
18. Wasley E, Jacobs K, **Weiss J**, Preston N (2020) Executive Summary, Mapping Climate Exposure and Climate Information Needs to Water Utility Business Functions [project 4729], The Water Research Foundation, 10pp
17. Wasley E, Jacobs K, **Weiss J**, Richmond M (2020) Water Utility Business Risk and Opportunity Framework: A Guidebook for Water Utility Business Function Leaders in a Changing Climate, The Water Research Foundation, 24pp
16. Garner AJ, **Weiss JL**, Parris A, Kopp RE, Horton RM, Overpeck JT, Horton BP (2018) Evolution of 21st century sea-level rise projections. *Earth's Future*, doi:10.1029/2018EF000991
15. Elias E, Schrader TS, Abatzoglou JT, James D, Crimmins M, **Weiss J**, Rango A (2017) County-level climate change information to support decision-making on working lands. *Climatic Change*, 148, 355-369, doi:10.1007/s10584-017-2040-y
14. **Weiss J**, Crimmins MA (2017) DroughtView: Satellite-based drought monitoring and assessment. *Arizona Cooperative Extension*, az1737, [cals.arizona.edu/research/climategem/resources/Weiss&Crimmins\(2017\)UACEDroughtView.pdf](http://cals.arizona.edu/research/climategem/resources/Weiss&Crimmins(2017)UACEDroughtView.pdf)
13. Crimmins MA, Ferguson DB, Meadow AM, **Weiss JL** (2017) Discerning “flavors” of drought using climate extremes indices. *Journal of Applied Meteorology and Climatology*, 56, 989-1001, doi:10.1175/JAMC-D-16-0270.1
12. **Weiss J**, Crimmins MA (2016) Better coverage of Arizona’s weather and climate: Gridded datasets of daily surface meteorological variables. *Arizona Cooperative Extension* az1704, [cals.arizona.edu/research/climategem/resources/Weiss&Crimmins\(2016\)UACEgriddedWxclimdata.pdf](http://cals.arizona.edu/research/climategem/resources/Weiss&Crimmins(2016)UACEgriddedWxclimdata.pdf)
11. Colburn LL, Jepson M, Weng C, Seara T, **Weiss J**, Hare JA (2016) Indicators of climate change and social vulnerability in fishing dependent communities along the Eastern and Gulf Coasts of the United States. *Marine Policy*, 74, 323-333, doi:10.1016/j.marpol.2016.04.030
10. **Weiss J**, Crimmins M, Overpeck J (2015) Developing an Event Database for Cut-off Low Climatology over Southwestern North America. In: Machine Learning and Data Mining Approaches to Climate Science, Lakshmanan V, Gilleland E, McGovern A, and Tingley M, eds., Springer, 195-204, www.springer.com/gp/book/9783319172194
9. Holmgren CA, Betancourt JL, Peñalba MC, Delgadillo J, Zuravnsky K, Hunter KL, Rylander KA, **Weiss JL** (2014) Evidence against a Pleistocene desert refugium in the Lower Colorado River Basin. *Journal of Biogeography*, doi:10.1111/jbi.12337
8. Parris A, Bromirski P, Burkett V, Cayan D, Culver M, Hall J, Horton R, Knuuti K, Moss R, Obeysekera J, Sallenger A, **Weiss J** (2012) Global Sea Level Rise Scenarios for the US National Climate Assessment. NOAA Tech Memo OAR CPO-1, 37pp, cpo.noaa.gov/sites/cpo/Reports/2012/NOAA_SLR_r3.pdf
7. ***Weiss JL**, Betancourt JL, Overpeck JT (2012) Climatic limits on foliar growth during major droughts in the Southwestern USA. *Journal of Geophysical Research*, 117, G03031, doi:10.1029/2012JG001993

6. Strauss BH, Ziemiński R, **Weiss JL**, Overpeck JT (2012) Tidally-adjusted estimates of topographic vulnerability to sea level rise and flooding for the contiguous United States. *Environmental Research Letters* 7, 014033 doi:10.1088/1748-9326/7/1/014033
5. ***Weiss JL**, Overpeck JT, Strauss B (2011) Implications of recent sea level rise science for low-elevation areas in coastal cities of the U.S.A. *Climatic Change* 105, 635-645, doi: 10.1007/s10584-011-0024-x
4. ***Weiss JL**, Castro CL, Overpeck JT (2009) Distinguishing pronounced droughts in the Southwestern United States: Seasonality and effects of warmer temperatures. *Journal of Climate* 22, 5918-5932 doi:10.1175/2009JCLI2905.1
3. **Weiss JL**, Overpeck JT (2005) Is the Sonoran Desert losing its cool? *Global Change Biology* 11, 2065-2077, doi:10.1111/j.1365-2486.2005.01020.x
2. ***Weiss JL**, Gutzler DS, Allred Coonrod JE, Dahm CN (2004) Long-term vegetation monitoring with NDVI in a diverse semiarid setting, central New Mexico, U.S.A. *Journal of Arid Environments* 58, 248-271, doi:10.1016/j.jaridenv.2003.07.001
1. ***Weiss JL**, Gutzler DS, Allred Coonrod JE, Dahm CN (2004) Seasonal and interannual relationships between vegetation and climate in Central New Mexico, U.S.A. *Journal of Arid Environments* 57, 507-534, doi:10.1016/S0140-1963(03)00113-7

Other

48. Meadow AM, **Weiss J**, LeRoy S (2021) Climate Profile for the Upper Santa Cruz River Watershed, Santa Cruz County Arizona, A Report by the Climate Assessment for the Southwest (CLIMAS) – University of Arizona on Behalf of Arizona Land and Water Trust, 35pp
47. **Weiss J** (2020) Timing of Leaf Removal and Cluster Thinning in the Context of Seasonal Heat – An Analysis for Merkin Vineyards, University of Arizona Cooperative Extension, 4pp
46. Robinson J, Ortiz E, Lowen C, Winch R, Rodriguez C, Fowell S, Ojeda R, Gonzalez R, Foulke S, Lakdawala A, Perelli G, Della Croce A, Maina S, Chavez K, Canfield E, Buldoc S, Kaplan S, Schepp E, Light M, Stephenson R, Tylutki D, Hernandez J, Blankenship J, Crosson C, **Weiss J**, Brown S, Morales E, Ogata I (2020) Las Milpitas Autocase Project: A Triple-Bottom-Line Analysis Report of Las Milpitas de Cottonwood Community Farm. Pima County Office of Sustainability & Conservation: A Collaborative Project between the Community Foodbank of Southern Arizona, Pima County, Regional Flood Control District, and Autocase™ with Additional Support Provided by the University of Arizona, 101pp, webcms.pima.gov/UserFiles/Servers/Server_6/File/Government/Sustainability%20and%20Conservation/Sustainability%20and%20Conservation%20newsroom/Sustainable%20Action%20Plan/AutocaseReport_FullColor_Final.pdf
45. **Weiss J**, Crimmins M, Garfin G (2020) La Niña 2020-2021: An Overview of What It Might Mean for Arizona, University of Arizona Cooperative Extension Climate Fact Sheet, 3pp, cals.arizona.edu/research/climategem/sites/cals.arizona.edu.research.climategem/files/la-nina-2020-2021-overview.pdf
44. **Weiss J** (2020) Exploratory Analysis of Spinach and Temperature Data for Duncan Family Farms, University of Arizona Cooperative Extension, 6pp
43. **Weiss J** (2020) Initial Modeling of Sulfur Application Timing for Powdery Mildew at Buhl Memorial Vineyard, 2017-2020, University of Arizona Cooperative Extension, 3pp
42. Meadow AM, LeRoy S, **Weiss J**, Keith L (2020) Climate Profile for the Verde Valley, Arizona, Climate Assessment for the Southwest (CLIMAS), University of Arizona, 52pp
41. **Weiss J**, Roudaut MB (2020) Bud Break at Buhl Memorial Vineyard, 2016-2020, Climate Assessment for the Southwest (CLIMAS), University of Arizona, 3pp
40. **Weiss J**, Roudaut MB, Meadow A (2020) Review of the 2019 Winegrape Growing Season in Arizona, Climate Assessment for the Southwest (CLIMAS), University of Arizona, 5pp
39. Meadow AM, **Weiss J**, LeRoy S, Keith L, Hausam S, Nasser E, Petersen S, Basaraba A, Russell N (2019) Climate Profile for the Pueblo of Laguna, University of Arizona – Institute of the Environment, 36pp
38. **Weiss J**, Roudaut MB (2019) Vine Bud Break at Merkin Vineyards, 2016-2019, Climate Assessment for the Southwest (CLIMAS), University of Arizona, 1pp

37. Meadow AM, LeRoy S, **Weiss J**, Keith L (2019) Climate Profile for The Highlands at Dove Mountain, Climate Assessment for the Southwest (CLIMAS), University of Arizona, 35pp
36. **Weiss J**, Crimmins M, DuBois D, Garfin G (2018) El Niño 2018-2019? An Overview of What It Might Mean for New Mexico, CLIMAS Climate Fact Sheet, 3pp
35. LeRoy SR, Meadow AM, **Weiss J** (2018) Climate-related Hazards in the Town of Oro Valley, Climate Assessment for the Southwest (CLIMAS), University of Arizona, 10pp
34. **Weiss J**, Crimmins M, Garfin G, Brown P (2018) El Niño 2018-2019? An Overview of What It Might Mean for Arizona, University of Arizona Cooperative Extension Climate Fact Sheet, 3pp, cals.arizona.edu/research/climategem/sites/cals.arizona.edu.research.climategem/files/ENwatch20182019overview.pdf
33. **Weiss J**, LeRoy S, Meadow AM, Castro C (2018) Climate Change Impacts on the North American Monsoon: Summary for Tohono O'odham Nation, Climate Assessment for the Southwest (CLIMAS), University of Arizona, 11pp
32. **Weiss J**, Roudaut MB (2018) Initial Assessment of Daily Minimum Temperature from Data Loggers in Routsen Orchards, Climate Assessment for the Southwest (CLIMAS), University of Arizona, 3pp
31. **Weiss J**, Roudaut MB (2018) An Introduction to "Improved Understanding of Climate Variability and Change Relevant to Orchards and Vineyards in Arizona and New Mexico" – Farmington Agricultural Science Center, New Mexico, Climate Assessment for the Southwest (CLIMAS), University of Arizona, 7pp
30. **Weiss J**, Roudaut MB (2018) An Introduction to "Improved Understanding of Climate Variability and Change Relevant to Orchards and Vineyards in Arizona and New Mexico" – Los Lunas 3 SSW, New Mexico, Climate Assessment for the Southwest (CLIMAS), University of Arizona, 7pp
29. **Weiss J**, Roudaut MB (2018) An Introduction to "Improved Understanding of Climate Variability and Change Relevant to Orchards and Vineyards in Arizona and New Mexico" – State University, New Mexico, Climate Assessment for the Southwest (CLIMAS), University of Arizona, 7pp
28. **Weiss J**, Roudaut MB (2018) An Introduction to "Improved Understanding of Climate Variability and Change Relevant to Orchards and Vineyards in Arizona and New Mexico" – Bonita, Arizona, Climate Assessment for the Southwest (CLIMAS), University of Arizona, 5pp
27. **Weiss J**, Roudaut MB (2018) An Introduction to "Improved Understanding of Climate Variability and Change Relevant to Orchards and Vineyards in Arizona and New Mexico" – Yavapai College Verde Valley Campus, Arizona, Climate Assessment for the Southwest (CLIMAS), University of Arizona, 5pp
26. Meadow AM, LeRoy S, **Weiss J**, Keith L (2018) Climate Profile for The City of Flagstaff, Arizona, Climate Assessment for the Southwest (CLIMAS), University of Arizona
25. Crimmins MA, Ferguson DB, Masayeva A, Meadow A, **Weiss JL**, Faulstich H (2017). Drought Monitoring to Support Planning for the Hopi Tribe: Final Report 2010-2016. Climate Assessment for the Southwest Technical Report, www.climas.arizona.edu/sites/default/files/pdfhopidroughtfinalreport2017.pdf
24. Garfin GM, Haverland AC, Falk DA, Jacobs KL, **Weiss JL**, Overpeck J, O'Connor CD, Haworth A, Baglee A (2017) SERDP Project RC-2232 User Manual: Assessing Climate Change Risks: Lessons Learned from DoD Installations in the Southwest, Strategic Environment and Research Development Program
23. Meadow AM, **Weiss J**, LeRoy S, Black M, Ferguson D, Crimmins M (2017) Climate Profile for the Truckee River Basin and Pyramid Lake Indian Reservation. Native Nations Climate Adaptation Program, University of Arizona, www.ccass.arizona.edu/nncap
22. Meadow AM, **Weiss J**, LeRoy S, Small VA, Black M, Ferguson D (2017) Climate Profile for the Fort McDowell Yavapai Nation. Native Nations Climate Adaptation Program, University of Arizona, www.ccass.arizona.edu/nncap
21. Garfin GM, Falk DA, Jacobs K, O'Connor CD, Haverland AC, Sagarin RD, **Weiss JL**, Overpeck JT, Haworth A, Baglee A (2017) Climate Change Impacts and Adaptation on Southwestern DoD Facilities: Final Report, SERDP Project RC-2232

20. **Weiss J** (2017) *Climate, Arizona, and Horticulture: What Mattered in 2016 for Maricopa County Master Gardeners, and What Could Matter in Coming Decades*, University of Arizona Cooperative Extension document, 5pp
19. Meadow A, Black M, Crimmins MA, Ferguson DB, **Weiss J** (2016) *Climate Profile of the Pueblo of Sandia*, Native Nations Climate Adaptation Program, University of Arizona, www.ccass.arizona.edu/nncap
18. Meadow A, Black M, Crimmins MA, Ferguson DB, **Weiss J** (2016) *Climate Profile of Gila River Indian Community*, Native Nations Climate Adaptation Program, University of Arizona, www.ccass.arizona.edu/nncap
17. **Weiss J**, Crimmins M, Garfin G, Brown P (2016) *El Niño 2015-2016 : Will It Affect the Wildland Fire Season in Arizona?*, University of Arizona Cooperative Extension Climate Fact Sheet, 7pp, cals.arizona.edu/research/climategem/sites/cals.arizona.edu.research.climategem/files/el-niño-2015-2016-wildland-fire.pdf
16. **Weiss J**, Crimmins M, Garfin G, Brown P (2016) *El Niño 2015-2016 : Will It Affect Snowfall in Arizona's Highcountry?*, University of Arizona Cooperative Extension Climate Fact Sheet, 7pp, cals.arizona.edu/research/climategem/sites/cals.arizona.edu.research.climategem/files/el-niño-2015-2016-snowfall.pdf
15. **Weiss J**, Crimmins M, Garfin G, Brown P (2015) *El Niño 2015-2016 : Will It Affect Minimum Temperatures across Arizona?*, University of Arizona Cooperative Extension Climate Fact Sheet, 4pp, cals.arizona.edu/research/climategem/sites/cals.arizona.edu.research.climategem/files/el-niño-2015-2016-winter-minimum-temperatures.pdf
14. **Weiss J**, Crimmins M, Garfin G, Brown P (2015) *El Niño 2015-2016 : Will It Influence Tropical Cyclones that Affect Arizona?*, University of Arizona Cooperative Extension Climate Fact Sheet, 3pp, cals.arizona.edu/research/climategem/sites/cals.arizona.edu.research.climategem/files/el-niño-2015-2016-tropical-cyclones.pdf
13. Meadow AM, Chew ES, Crimmins MA, Frisvold G, Ghasemian D, LaMantia R, Owen G, Palacios L, **Weiss J** (2015) *Tohono O'odham Nation Climate Change Adaptation Plan: Phase II – Climate Change Impacts and Risks*, 138pp
12. **Weiss J**, Crimmins M, Garfin G, Brown P (2015) *El Niño 2015-2016 : An Overview of What It Might Mean for Arizona*, University of Arizona Cooperative Extension Climate Fact Sheet, 2pp, cals.arizona.edu/research/climategem/sites/cals.arizona.edu.research.climategem/files/el-niño-2015-2016-overview.pdf
11. Crimmins MA, Ferguson DB, **Weiss JL**, Faulstich H (2015) *Hopi Climate: An Overview to Support Drought Monitoring and Management*. Climate Assessment for the Southwest, Tucson AZ, 9pp, www.climas.arizona.edu/publication/report/hopi-climate-overview-support-drought-monitoring-and-management
10. Garfin G, Sagarin R, Falk D, Haworth A, Jacobs K, Overpeck J, O'Connor C, **Weiss J**, Zuñiga-Teran A (2015) *Climate Change Impacts and Adaptation on Southwestern DoD Facilities*. Prepared by Project RC-2232 for the Strategic Environmental Research and Development Program
9. Meadow A, Crimmins M, **Weiss J**, Enquist C, Chew S, Ghasemian D (2015) *Tohono O'odham Nation Climate Change Adaptation Plan Results of Phase One: Scoping*. Center for Climate Adaptation Science and Solutions, 32pp
8. **Weiss J**, Overpeck J, Sagarin R (2014) *El Niño Event – Sea Level Rise Update for Naval Base Coronado*, SERDP Project RC-2232, 6pp
7. Sagarin R, Baglee A, Falk D, Galayda J, Garfin G, Haworth A, Khosa B, McNeil S, Overpeck J, Troch P, **Weiss J**, O'Connor C (2014) *Climate Risk on Southwest Department of Defense Facilities – White Paper on Risk Assessment Methodology*. Prepared by Project RC-2232 for the Strategic Environmental Research and Development Program
6. **Weiss J** (2014) *Potential Changes in Future Regional Climate and Related Impacts – A Brief Report for the Central New Mexico Climate Change Scenario Planning Project*, U.S. DOT-Volpe National Transportation Systems Center, Climate Assessment for the Southwest, Tucson AZ, 9pp,

www.climas.arizona.edu/publication/report/potential-changes-future-regional-climate-and-related-impacts-brief-report

5. **Weiss JL** (2014) 2014 El Niño Event – Sea Level Rise Information Product for Naval Base Coronado, SERDP Project RC-2232, 1p
4. **Weiss JL** (2014) Translation of Final Report from SERDP RC-1703 for Naval Base Coronado, SERDP Project RC-2232, 1p
3. **Weiss JL**, Overpeck JT, Cole JE (2012) Warmer led to drier: Dissecting the 2011 drought in the Southern U.S. *Southwest Climate Outlook* 11(3), 3-4, www.climas.arizona.edu/publication/feature-article/warmer-led-drier-dissecting-2011-drought-southern-us
2. Jordan E, ***Weiss J** (2011) Identifying Public Perceptions of Weather- and Climate-related Risks in Southeast Arizona. A report for the Climate Assessment for the Southwest (CLIMAS), 14pp
1. Overpeck JT, **Weiss JL** (2009) Projections of future sea level becoming more dire. *Proceedings of the National Academy of Sciences of the United States of America* 106, 21461-21462, doi:10.1073/pnas.0912878107

Work in progress

3. Blanchon D, Ferriere R, Keck F, Roudaut MB, **Weiss J**, Wilder B, Zuñiga A (in preparation for *Current Opinion in Environmental Sustainability*) Tipping Points and Sentinels, Two Concepts for Assessing Changes in Socio-Ecological Systems: A Literature Review
2. Garfin G, Falk DA, O'Connor CD, Jacobs K, Sagarin R, Haverland A, Haworth A, Baglee A, **Weiss JL**, Overpeck J, Zuñiga-Teran A (in review) A new mission: Climate adaptation challenges and opportunities in the Department of Defense, *One Earth*
1. Meadow A, **Weiss J**, Roudaut MB (in preparation for *Climate Services*) Creating a Network for Climate Science: A Case Study of Extension and Viticulture in Arizona

* Publication is based largely on work done as a graduate student

GRANTS & CONTRACTS

Funded

15. 10/01/2020 – 10/31/2021, *pending*, Key Personnel, “Hot and Getting Hotter: Planning for Land and Water Protection in a Warming Arizona”, Land Trust Alliance, Land and Climate Program Grant Program, \$10,000 (Weiss, 4% effort, in-kind match)
14. 10/01/2020 – 09/30/2021, *pending*, Co-Investigator, “Arizona Wine Grape Varietal Research and Evaluation Initiative (AWVR)”, Arizona Department of Agriculture Specialty Crop Block Grant Program, \$38,969 (Weiss, 5%)
13. 01/01/2020 – 12/31/2020, Co-principal Investigator, “Framework for Addressing Cultural Resource Vulnerabilities, Phase III: Scenario Planning”, NPS WASO, Vanishing Treasures Program, \$99,766 (Weiss, 12%)
12. 04/01/2019 – 06/30/2020, Co-investigator, “Pueblo of Laguna Vulnerability Assessments on Infrastructure & the Built Environment and Health & Wellness”, subcontractor to Adaptation International, \$7,285 (Weiss, 2% effort)
11. 01/01/2019 – 12/31/2019, Co-principal Director, “inView: Integration of DroughtView and SnowView for Extension”, University of Arizona Extension Strategic Initiative Program – 2018, \$26,180
10. 01/01/2019 – 12/31/2019, Co-principal Investigator, “Framework for Addressing Cultural Resource Vulnerabilities, Phase II: Adaptation Strategies Development”, NPS WASO, Vanishing Treasures Program, \$99,654 (Weiss, 10%)
9. 01/01/2018 – 10/31/2018, Co-Investigator, “Mapping Climate Exposure and Climate Information Needs to Utility Business Functions”, Water Research Foundation-Water Utility Climate Alliance, WRF Project #4729, \$100,000 (Weiss, 9% effort)

8. 01/01/2018 – 12/31/2018 Co-principal Investigator, “Framework for Addressing Cultural Resource Vulnerabilities, Phase I: Impact Analysis”, NPS WASO P17AC01532, Vanishing Treasures Program, \$99,782 (Weiss, 10%)
7. 09/01/2017 – 08/31/2022, Co-Investigator, “Collaboratively Assessing Critical Social-Ecological System Buffers to Help Build Regional Climate Resilience: The Climate Assessment for the Southwest”, NOAA Climate Program Office’s Regional Integrated Sciences and Assessments (RISA) Program, NOAA-OAR-CPO-2017-2005017, \$3,464,261 (Weiss, 35% effort for years 1 and 2 and 10% effort for year 3)
6. 06/15/2017 – 06/14/2018, Key Personnel, “Managing for Climate Change: Climate Masters Outreach and Extension”, USDA Agriculture and Food Research Initiative – Agriculture and Natural Resources Science for Climate Variability and Change Challenge Area 2016-11172, \$249,969 (Weiss, 4% effort)
5. 01/01/2015 – 06/30/2015, Systems Analyst, NOAA Fisheries Economic and Human Dimensions Program, \$5,490 (Weiss, 4% effort)
4. Institute of the Environment Graduate Student Travel Award (2011), \$500
3. Graduate and Professional Student Council Travel Grant (2011), \$500
2. Institute of the Environment Graduate Student Travel Award (2009), \$500
1. Graduate and Professional Student Council Travel Grant (2009), \$500

TEACHING

Graduate Student Mentor

Marie-Blanche Roudaut (PhD 2021 *expected*)

Joseph William Mennell (MS 2018, thesis committee)

Allison Drake (MS 2007)

Guest Lecturer

Real-world Climate Science and Adaptation in the Southwest (Jones, Gila Community College – Payson, Spring 2018)

Real-world Climate Science and Adaptation in the Southwest (Jones, Gila Community College – Globe, Spring 2018)

Climate Change Adaptation: Perspectives at the Nexus of Science, Society, and Resource Management (Garfin, University of Arizona, Fall 2017)

Rangeland Management Planning (Fehmi, University of Arizona, Spring 2017)

GIS Tools Graduate Student Workshop (Frew, University of California Santa Barbara, Spring 2013)

Science, Policy, and Politics of Global Climate Change (Bull, OLLI, University of Arizona, Spring 2012)

Introductory Geology II: Historical Geology (Gest, Pima College, Fall 2007)

Workshops

4. Restoration Planning Tools for Practitioners: DroughtView and SnowView (Society for Ecological Restoration – Southwest Chapter 2019 Annual Conference, Tucson AZ, November 2019)
3. lead organizer and facilitator, Growing Season in Review Workshop for Arizona Winegrape Growers in Southeastern Arizona (Benson AZ, October 2019)
2. lead organizer and facilitator, Growing Season in Review Workshop for Arizona Winegrape Growers in the Verde Valley (Clarkdale AZ, October 2019)
1. Incorporating Climate Change Data Workshop (Arizona / New Mexico American Fisheries Society and The Wildlife Society Joint Annual Meeting, Flagstaff AZ, February 2016)

SCHOLARLY PRESENTATIONS

44. **Weiss J** (2021) *invited* “Providing More and Better Information about Climate and Its Impacts”. North Carolina State Climate Office, North Carolina State University. Oral online presentation
43. Garner AJ, **Weiss JL**, Parris A, Kopp RE, Horton RM, Overpeck JT, Tan F, Tan CWJ, Sosa SE, Horton BP (2020) "Evolution of Global Sea-level Rise Projections for the 21st Century and their

- Implementation in Policy at the Local Scale". Geological Society of America "Our Coastal Futures: Working Together to Understand Hazards and Mitigate Disasters" session. Oral presentation
42. Garner AJ, **Weiss JL**, Parris A, Kopp RE, Horton RM, Overpeck JT, Tan F, Tan CWJ, Sosa SE, Horton BP (2020) "Evolution of Global Sea-level Rise Projections for the 21st Century and their Implementation in Policy at the Local Scale". AGU Fall Meeting 2020 " Treading Water: Understanding Sea Level Rise and connections to coastal flooding and impacts" session.
 41. **Weiss J**, Roudaut MB, Meadow A (2019) "Stakeholders of a Climate Science and Viticulture Project Affect Research Project Vintage". AGU Fall Meeting 2019 "Science to Action: Transformative Partnerships to Advance Decision-Relevant Science" session, San Francisco CA. Oral presentation
 40. **Weiss J**, Crimmins M, Broxton P, Hartfield K, van Leeuwen W, Marsh S (2019) "inView: Integration of DroughtView and SnowView for Extension". Society for Ecological Restoration – Southwest Chapter 2019 Annual Conference, Tucson AZ. Poster presentation
 39. Hartfield K, LeRoy S, **Weiss J**, Jeffrey B, van Leeuwen W, Garfin G, Hartmann H, Meyer L, Adler R, Benjamin P (2019) "Developing a Framework for Assessing Vulnerability of Western Cultural Heritage". 15th Biennial Conference of Science & Management on the Colorado Plateau & Southwest Region, Northern Arizona University, Flagstaff AZ. Oral presentation
 38. **Weiss J**, Crimmins M, Broxton P, Hartfield K, van Leeuwen W, Marsh S (2019) "inView: Integration of DroughtView and SnowView for Extension". University of Arizona Cooperative Extension Conference 2019, Tucson AZ. Poster presentation
 37. Wasley E, Jacobs K, **Weiss J** (2019) "Mapping Climate Exposure and Climate Information Needs to Water Utility Business Functions". 2019 University of Arizona ALVSCE Research Poster Forum. Poster presentation
 36. Hartfield K, van Leeuwen WJD, Crimmins M, Marsh S, **Weiss J**, Broxton P (2019) "The Continuing Evolution of DroughtView: A Satellite Based Drought Monitoring Web Application". 2019 University of Arizona ALVSCE Research Poster Forum. Poster presentation
 35. **Weiss JL** (2019) *invited* "Connecting Climate Science Extension and Research". Department of Soil, Water, and Climate, University of Minnesota, St. Paul MN. Oral presentation
 34. Wasley E, Jacobs K, **Weiss J** (2018) "Mapping Climate Exposure and Climate Information Needs to Water Utility Business Functions". 2018 Fall Meeting of the American Geophysical Union, Washington DC. Poster presentation
 33. Garner AJ, **Weiss JL**, Parris A, Kopp RE, Horton RM, Overpeck JT, Horton BP (2018) "Evolution of 21st Century Sea-level Rise Projections". 2018 Fall Meeting of the American Geophysical Union, Washington DC. Oral presentation
 32. **Weiss J**, Roudaut MB (2018) "Outcomes from the Climate-Viticulture Exchange in Yavapai County". University of Arizona Cooperative Extension Conference 2018, Tucson AZ. Poster presentation
 31. Mennell J, Crimmins MC, **Weiss JL** (2018) "Changing Winter Precipitation and Temperature Regimes Likely to Impact Arizona's Water Resources". SWESx 2018, School of Earth and Environmental Sciences EarthWeek 2018, University of Arizona, Tucson AZ. Oral presentation
 30. **Weiss J** (2017) "Improved Understanding of Climate Variability and Change Relevant to Orchards and Vineyards in Arizona and New Mexico". CLIMAS Colloquium Series: New Project Showcase (Part 1), University of Arizona, Tucson AZ. Oral presentation
 29. **Weiss J**, Hartfield K, van Leeuwen WJD, Crimmins M, Marsh S, Torrey Y, Rahr M, KC P (2017) "DroughtView: Satellite-based Drought Monitoring and Assessment". 2017 University of Arizona College of Agriculture and Life Sciences Poster Forum, Tucson AZ. Oral and poster presentations
 28. Hartfield K, van Leeuwen WJD, Crimmins M, Marsh S, Torrey Y, Rahr M, **Weiss J**, KC P (2017) "DroughtView – Monitoring Vegetation and Drought from Space and by People". 2017 University of Arizona College of Agriculture and Life Sciences Poster Forum, Tucson AZ. Poster presentation
 27. **Weiss J** (2017) "Viticulture, Temperature, and Arizona". CLIMAS Colloquium Series, University of Arizona, Tucson AZ. Oral presentation
 26. **Weiss J**, Hartfield K, van Leeuwen WJD, Crimmins M, Marsh S, Torrey Y, Rahr M, KC P (2016) "DroughtView: Satellite-based Drought Monitoring and Assessment". University of Arizona –

- International Arid Lands Consortium : Cross-disciplinary Symposium on Arid Environments Research, Tucson AZ. Poster presentation
25. Rango A, Elias EH, Steele C, Crimmins M, **Weiss J**, Smith R (2015) “Connecting Stakeholders with Climate Science: Farmer, Rancher, and Forester Climate Data Needs and Climate Change Attitudes”. 2015 Fall Meeting of the American Geophysical Union, San Francisco CA. Poster presentation
 24. **Weiss J**, Crimmins M, Overpeck J (2015) “Developing an Event Database for Cut-off Low Climatology over Southwestern North America”. 2015 University of Arizona College of Agriculture and Life Sciences Poster Forum, Tucson AZ. Poster presentation
 23. **Weiss J**, Crimmins M, Overpeck J (2015) “Developing an Event Database for Cut-off Low Climatology over Southwestern North America”. University of Arizona Cooperative Extension Conference 2015, Tucson AZ. Poster presentation
 22. **Weiss J**, Crimmins M (2015) “Tailoring the Data Process to Regional Climate Information Needs: From Comparisons and Code to Transformations and Tools”. 13th Annual Climate Prediction Applications Science Workshop, Las Cruces NM. Oral presentation
 21. **Weiss J**, Crimmins M, Overpeck J (2015) “Developing an Event Database for Cut-off Low Climatology over Southwestern North America”. 13th Annual Climate Prediction Applications Science Workshop, Las Cruces NM. Poster presentation
 20. **Weiss J**, Crimmins M, Overpeck J (2014) “Developing an Event Database for Cut-off Low Climatology over Southwestern North America”. 4th International Workshop on Climate Informatics, Boulder CO. Poster presentation
 19. Crimmins M, **Weiss J**, Ferguson D, Meadow A, Faulstich H, Kimbrough A (2013) “Tracking Hydroclimatic Extremes across Tribal Lands in the Four Corners Region”. 12th Biennial Conference of Science and Management on the Colorado Plateau, Flagstaff AZ. Oral presentation
 18. **Weiss JL** (2013) *invited* “Recent Variations in Low-temperature and Moisture Constraints on Vegetation in the Southwestern U.S.”. CLIMAS Colloquium, University of Arizona, Tucson AZ. Oral presentation
 17. **Weiss JL** (2013) *invited* “Recent Variations in Low-temperature and Moisture Constraints on Vegetation in the Southwestern U.S.”. Spring 2013 Water Seminar Series, University of Nebraska-Lincoln, Lincoln NE. Oral presentation
 16. Parris A, Obeysekera J, Knuuti K, Moss RH, Horton RM, **Weiss JL** (2012) “Scenario Planning for Coastal Adaptation”. 2012 Fall Meeting of the American Geophysical Union, San Francisco CA. Poster presentation
 15. **Weiss JL** (2012) *invited* “Climate Model Data for Climate Change VIA”. NASA SEDAC/UNEP PROVIA Workshop on Data Gaps for Research and Action on Climate Change Vulnerability, Impacts, and Adaptation, Tucson AZ. Oral presentation
 14. **Weiss JL**, Overpeck JT, Betancourt JL (2011) “Spatiotemporal Transitions between Foliar Phenological Limits of Suboptimal Temperatures and Evapotranspirational Demand in Woodlands and Forests of the Southwestern U.S.A. under a Warming Climate”. 2011 Fall Meeting of the American Geophysical Union, San Francisco CA. Poster presentation
 13. **Weiss JL** (2010) “Using Spatial Analysis and Maps to Communicate Potential Risks of Climate Change”. IAI NCAR Colloquium on Knowledge Innovation at the Science-Policy Interface, San José Costa Rica. Oral presentation
 12. **Weiss JL**, Ault T, Betancourt JL, Schwartz MD, Macalady A, Pederson GT, Castro CL, Overpeck JT (2009) “The Post-1984 Step Change in Spring Temperatures and Spring Onset in the Western U.S.A.: Proximal and Distant Drivers”. 2009 Fall Meeting of the American Geophysical Union, San Francisco CA. Oral presentation
 11. **Weiss JL**, Overpeck JT, Betancourt JL (2009) “The Changing Character of Phenology, Drought, and the Seasons in the Southwestern U.S.A.”. GeoDaze 2009, 37th Annual Geoscience Symposium, Tucson AZ. Poster presentation
 10. **Weiss JL**, Castro CL, Overpeck JT (2009) “Seasonal Effects of Warmer Temperatures during Drought in the Southwestern U.S.A.”. GeoDaze 2009, 37th Annual Geoscience Symposium, Tucson AZ. Oral presentation

9. **Weiss JL**, Overpeck JT, Betancourt JL (2008) "The Changing Character of Phenology, Drought, and the Seasons in the Southwestern U.S.A.". 2008 Fall Meeting of the American Geophysical Union, San Francisco CA. Poster presentation
8. **Weiss JL**, Overpeck JT, Betancourt JL (2008) "The Changing Character of Phenology, Drought, and the Seasons in the Southwestern U.S.A.". Characterizing the Phenology of Southwest Landscapes, 2nd Annual Symposium of the National Phenology Network (NPN) and the Southwest U.S. Region of the American Society of Photogrammetry and Remote Sensing (ASPRS), Tucson AZ. Oral presentation
7. **Weiss JL**, (2007) *invited* "Sea Level Rise Modeling for the Caribbean". Developing an Approach for Adaptation to Climate Change in the Insular Caribbean: The Hawksbill Sea Turtle as an Indicator Species, WWF and MacArthur Foundation workshop, Miami FL. Oral presentation
6. **Weiss JL**, Overpeck JT (2007) "Climate and Phenology during the 1950s and 2000s Droughts in the Southwestern U.S.A.". Ninth Biennial Conference of Research on the Colorado Plateau, Flagstaff AZ. Poster presentation
5. Garfin GM, Novak R, **Weiss J** (2007) "Projected Climate Changes and Their Potential Impacts on Native American Lands of the Southern Colorado Plateau". Ninth Biennial Conference of Research on the Colorado Plateau, Flagstaff AZ. Oral presentation
4. **Weiss JL**, Overpeck JT (2007) "Climate and Phenology during the 1950s and 2000s Droughts in the Southwestern U.S.A.". ASPRS 'Towards a Southwest Phenology Network' symposium, Tucson AZ. Poster presentation
3. **Weiss JL**, Overpeck JT (2007) "'Is the Sonoran Desert Losing Its Cool?' and Other Global Climate Change Questions for Southwestern Deserts". Sixth Conference on Research and Resource Management in the Southwestern Deserts: Borders, Boundaries and Time Scales, Tucson AZ. Oral presentation
2. Garfin G, Morrill J, Comrie A, **Weiss J** (2005) "A Tale of Two Droughts: Changing Temperatures and Southwestern Droughts". Eighth Biennial Conference of Research on the Colorado Plateau, Flagstaff AZ. Poster presentation
1. Garfin GM, Crimmins MA, **Weiss JL** (2005) "A Brief History of Southwest Climate Changes and a Glimpse at the Future". Eighth Biennial Conference of Research on the Colorado Plateau, Flagstaff AZ. Oral presentation

PROFESSIONAL ACTIVITIES

- | | |
|------|---|
| 2016 | selected participant , University of California - Berkeley Spatial Data Science Bootcamp for Professionals, Berkeley CA |
| 2011 | selected participant , NCAR ASP Colloquium on Statistical Assessment of Extreme Weather Phenomena under Climate Change, Boulder CO |
| 2010 | selected participant , IAI NCAR Colloquium on Knowledge Innovation at the Science-Policy Interface, San José Costa Rica |

PROFESSIONAL SERVICE & OUTREACH

International/National

- | | |
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| 2021 | invited participant , "Talking Wine, Weather, and Science: Part II", Come Rain or Shine podcast by USDA Southwest Climate Hub and the DOI Southwest Climate Adaptation Science Center, www.buzzsprout.com/1136681/7641847 |
| 2021 | invited participant , "Talking Wine, Weather, and Science: Part I", Come Rain or Shine podcast by USDA Southwest Climate Hub and the DOI Southwest Climate Adaptation Science Center, www.buzzsprout.com/1136681/7641388 |
| 2019 | Garfin G, Hartfield K, LeRoy S, Jeffery B, van Leeuwen W, Weiss J , "How to Use the NPS Cultural Resources Vulnerability Assessment Tool (CREVAT)", Cultural Resource Vulnerability Assessment Workshop, Santa Fe NM. Oral presentation |
| 2019 | invited exhibitor , on behalf of CLIMAS, 2019 New Mexico Wine Education Conference, Albuquerque NM |

- 2017 **invited presenter**, “The Science of Drought in the Southwest”, USFS Region 3 Workshop: Adapting to Drought in the Southwest, Albuquerque NM
- 2017 **invited presenter**, “DroughtView: Combining On-the-ground Know-how with Remotely Sensed Data to Assess Drought Impacts”, Desert Landscape Conservation Cooperative webinar
- 2017-present participant, ‘WERA102: Climate Data and Analyses for Applications in Agriculture and Natural Resources’, Multistate Research Coordinating Committee and Information Exchange Group
- 2016 **invited presenter**, “An Introduction to Climate Projections: Models, Scenarios, Data, and Use”, New Mexico State University-Instituto Nacional para el Desarrollo de Capacidades del Sector Rural, A.C.
- 2016 Hartfield K, van Leeuwen WJD, Crimmins M, Marsh S, Torrey Y, Rahr M, **Weiss J**, Pratima KC, “DroughtView: Satellite-based Drought Monitoring and Assessment”, 2016 Esri User Conference, San Diego CA. Poster presentation
- 2015 **invited presenter**, “Climate Projection Data and Its Application: From Comparisons and Code to Transformations and Tools”, The Wildlife Society Southwest Section Geospatial Advisory Committee climate data webinar
- 2014 **invited presenter**, “Potential Changes in Future Regional Climate and Related Impacts”, Central New Mexico Climate Change Scenario Planning Project
- 2013 **invited presenter**, “An Overview of Recent Climate and Projected Changes for the Southwest”, Central New Mexico Climate Change Scenario Planning Project
- 2013 **invited reviewer**, Climate Risk Information 2013, Observations, Climate Change Projections, and Maps, New York City Panel on Climate Change
- 2013 **invited panelist**, Carsey-Wolf Center Environmental Media Initiative, Critical Issues in America, Figuring Sea Level Rise: Interactive Visioning, University of California Santa Barbara
- 2011-2012 **invited panelist**, Sea Level Change Scenarios for US National Climate Assessment, Washington DC
- 2012 **invited blogger**, Southwest Climate Change Network (southwestclimatechange.org)
- 2011 **invited blogger**, Skeptical Science (skepticalscience.com)
- 2009 **invited participant**, Ad Hoc Planning Committee for Science Workshop on Sea Level Rise in Florida, Florida Institute for Conservation Science
- 2007 **invited participant**, Developing an Approach for Adaptation to Climate Change in the Insular Caribbean: The Hawksbill Sea Turtle as an Indicator Species, WWF and MacArthur Foundation workshop, Miami FL
- 2006 **invited analyst**, species target list for National Phenology Network Implementation Team, Tucson AZ

State/Local

- 2021 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - February 2021 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2021-february
- 2021 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - January 2021 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2021-january
- 2020 Robinson J, Rodriguez C, Bolduc S, **Weiss J**, Fowell S, “Las Milpitas Autocase Project: A Triple-bottom-line Analysis Report of Las Milpitas de Cottonwood Community Farm”, Pima Association of Governments Low Impact Development Group
- 2020 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - December 2020 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2020-december

- 2020 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - November 2020 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2020-november
- 2020 participant, Growing Grapes in Greenlee County, online Cooperative Extension meeting
- 2020 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - October 2020 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2020-october
- 2020 **Weiss J**, Roudaut MB, Meadow A, "Stakeholders of a Climate Science and Viticulture Project Affect Research Project Vintage", University of Arizona Cooperative Extension Annual Conference, Tucson AZ. poster presentation, sites.google.com/email.arizona.edu/climate-viticulture-project/home
- 2020 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - September 2020 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2020-september
- 2020 **invited presenter**, "State of the Climate for Arizona Pecan", Arizona Pecan Growers Association 2020 Annual Conference, Tucson AZ
- 2020 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - August 2020 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2020-august
- 2020 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - July 2020 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2020-july
- 2020 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - June 2020 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2020-june
- 2020 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - May 2020 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2020-may
- 2020 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - April 2020 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2020-april
- 2020 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - March 2020 Special Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2020-march-special-issue
- 2020 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - March 2020 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2020-march
- 2020 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - February 2020 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2020-february
- 2020 helper, Python Software Carpentry Workshop, University of Arizona, Tucson AZ
- 2020 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - January 2020 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2020-january
- 2019 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - December 2019 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2019-december
- 2019 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - November 2019 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2019-november

- 2019 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - October 2019 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2019-october
- 2019 exhibitor on behalf of CLIMAS / Cooperative Extension, Arizona Pecan Growers Association Annual Meeting, Tucson AZ
- 2019 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - September 2019 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2019-september
- 2019 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - August 2019 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2019-august
- 2019 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - July 2019 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2019-july
- 2019 **invited participant**, Pima County Office of Sustainability, Conservation and Historic Preservation Foods System Study, Tucson AZ
- 2019 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - June 2019 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2019-june
- 2019 **Weiss J**, Roudaut MB Climate Viticulture Newsletter - May 2019 Issue, University of Arizona Cooperative Extension, cals.arizona.edu/research/climategem/content/climate-viticulture-newsletter-2019-may
- 2019 **invited presenter, Weiss J**, Roudaut MB, Meadow A, Bickel A, Duval D, Frisvold G, "What Are the Major Climatic Issues for Arizona Viticulture?", Arizona Viticulture Symposium, Willcox AZ
- 2019 **Weiss J**, Roudaut MB, "The Sonoita, Willcox, and Proposed Verde Valley American Viticultural Areas", Arizona Viticulture Symposium, Willcox AZ. Poster presentation
- 2019 **invited presenter, Weiss J**, "An Overview of Climate Change", Sky Islands High School Climate Change Speaker Series, Tucson AZ. Oral presentation
- 2018-2019 **invited participant**, Precipitation Data and Drought Insurance Programs for Ranching in Southeast Arizona, Safford AZ
- 2018 **invited participant**, Southeast Arizona Drought Assessment for USDA Farm Service Agency Noninsured Crop Disaster Assistance Program, Willcox AZ
- 2018 **invited co-organizer**, An Exchange on Climate and Viticulture in Yavapai County, Yavapai College Verde Valley Campus, Clarkdale AZ
- 2018 **invited presenter, Weiss J**, Roudaut MB, "Climate Limitations and Vineyards in Arizona", An Exchange on Climate and Viticulture in Yavapai County, Yavapai College Verde Valley Campus, Clarkdale AZ
- 2018 **Weiss J**, Roudaut MB, "Climate, Soil, and Topography of the Proposed Verde Valley AVA", An Exchange on Climate and Viticulture in Yavapai County, Yavapai College Verde Valley Campus, Clarkdale AZ. Poster presentation
- 2018 **Weiss J**, Roudaut MB, "Climate, Soil, and Topography of the Sonoita and Willcox AVAs", An Exchange on Climate and Viticulture in Yavapai County, Yavapai College Verde Valley Campus, Clarkdale AZ. Poster presentation
- 2018 **Weiss J**, Roudaut MB, "The Proposed Verde Valley American Viticultural Area", An Exchange on Climate and Viticulture in Yavapai County, Yavapai College Verde Valley Campus, Clarkdale AZ. Poster presentation
- 2018 **Weiss J**, Roudaut MB, "The Sonoita American Viticultural Area", An Exchange on Climate and Viticulture in Yavapai County, Yavapai College Verde Valley Campus, Clarkdale AZ. Poster presentation

- 2018 **Weiss J**, Roudaut MB, "The Willcox American Viticultural Area", An Exchange on Climate and Viticulture in Yavapai County, Yavapai College Verde Valley Campus, Clarkdale AZ. Poster presentation
- 2018 **Weiss J**, Roudaut MB, "Weather, Climate, and the Annual Growth Cycle of Winegrape Vines", An Exchange on Climate and Viticulture in Yavapai County, Yavapai College Verde Valley Campus, Clarkdale AZ. Poster presentation
- 2018 **invited presenter, Weiss J**, Roudaut MB, "Climate Limitations and Vineyards in Arizona", Arizona Grape Growers Symposium, Benson AZ
- 2018 **Weiss J**, Roudaut MB, "The Sonoita American Viticultural Area", Arizona Grape Growers Symposium, Benson AZ. Poster presentation
- 2018 **Weiss J**, Roudaut MB, "The Willcox American Viticultural Area", Arizona Grape Growers Symposium, Benson AZ. Poster presentation
- 2018 **Weiss J**, Roudaut MB, "Climate, Soil, and Topography of the Sonoita and Willcox AVAs", Arizona Grape Growers Symposium, Benson AZ. Poster presentation
- 2018 **Weiss J**, Roudaut MB, "Weather, Climate, and the Annual Growth Cycle of Winegrape Vines", Arizona Grape Growers Symposium, Benson AZ. Poster presentation
- 2018 Meadow A, LeRoy S, **Weiss J**, Keith L, "Climate Trends and Impacts for Flagstaff, Arizona", City of Flagstaff Climate Action and Adaptation Plan: Open House, Flagstaff AZ
- 2017 exhibitor on behalf of CLIMAS / Cooperative Extension, Southeastern Arizona Sustainable Agriculture Producers' Forum, Benson AZ
- 2017 **invited participant**, Southeast Arizona Drought Assessment for USDA Farm Service Agency Noninsured Crop Disaster Assistance Program, Willcox AZ
- 2017 **invited presenter**, "Climate, Arizona, and Horticulture", Maricopa County Master Gardeners - March Update, Phoenix AZ
- 2017 **invited presenter**, "Viticulture, Temperature, and Arizona", Arizona Grape Growers Symposium, Sonoita AZ
- 2016 **invited presenter**, "DroughtView: Combining On-the-ground Know-how with Remotely Sensed Data to Assess Drought Impacts", Pima County Wastewater Reclamation Local Drought Impact Group, Tucson AZ
- 2016 **invited presenter**, "DroughtView: Combining On-the-ground Know-how with Remotely Sensed Data to Assess Drought Impacts", Pima County Regional Flood Control District Monthly Brown Bag Series, Tucson AZ
- 2016 **invited participant**, Southeast Arizona Drought Assessment for USDA Farm Service Agency Noninsured Crop Disaster Assistance Program, Willcox AZ
- 2015 Hartfield K, van Leeuwen WJD, Crimmins M, Marsh S, Torrey Y, Rahr M, **Weiss J**, Pratima KC, "DroughtView: Satellite-based Drought Monitoring and Assessment". 2015 Pima County GIS Day, Tucson AZ. Poster presentation
- 2015 **invited reviewer**, Paulo Freire Freedom School, The Science of Climate Change project exhibition, Tucson AZ
- 2015 **invited presenter**, Khalsa Montessori School lower elementary classroom, Tucson AZ
- 2015 **invited presenter**, University of Arizona Cooperative Extension workshop: Introduction to Web-based Drought Information and Management Tools, Prescott AZ
- 2015 **invited presenter**, Arizona State University and University of Arizona Advanced Water Education Workshop: Extreme Weather Events, Tempe AZ
- 2015 **invited participant**, Southeast Arizona Drought Assessment for USDA Farm Service Agency Noninsured Crop Disaster Assistance Program, Willcox AZ
- 2014 **invited presenter**, Khalsa Montessori School lower elementary classroom, Tucson AZ
- 2013 **invited presenter**, White Mountains Land Trust/Alliance climate scenario planning workshop, Show Low AZ
- 2013 **invited presenter**, Sky Island Alliance climate change adaptation workshop, Tucson AZ
- 2011-2012 STEM workshop facilitator, Arizona K12 Center, Phoenix AZ

- 2011 climate change analyst, City of Tucson's Climate Change Committee, Tucson AZ
- 2011 climate change analyst, Sky Island Alliance, Tucson AZ
- 2007 **invited presenter**, Trinity Presbyterian community workshop, Tucson AZ
- 2007 **invited presenter**, SAMEC Solar Science Workshop, Tucson AZ

University

- 2019 participant, Mini-retreat on Digital Agriculture at the University of Arizona, Tucson AZ
- 2018 McCarthy F, Rahr M, **Weiss J**, Prudic K, Crimmins M, Lyons E, College of Agriculture & Life Sciences Cyberinfrastructure Needs Report (2018)
- 2017 **invited presenter**, "DroughtView: Combining On-the-ground Know-how with Remotely Sensed Data to Assess Drought Impacts", 2017 University of Arizona GIS day, Tucson AZ
- 2017 **Weiss J**, Hartfield K, van Leeuwen WJD, Crimmins M, Marsh S, Torrey Y, Rahr M, KC P, "DroughtView: Satellite-based Drought Monitoring and Assessment". 2017 University of Arizona GIS day, Tucson AZ. Poster presentation
- 2017 **invited reviewer**, CLIMAS Environment & Society Graduate Fellows Program applications, Tucson AZ
- 2017-present **invited member**, CALS Cyberinfrastructure Advisory Group
- 2017 poster judge, SNRE EarthWeek Poster Competition, Tucson AZ
- 2016 **invited presenter**, "DroughtView: Combining On-the-ground Know-how with Remotely Sensed Data to Assess Drought Impacts", University of Arizona Water Resources Research Center Brown Bag Seminar, Tucson AZ
- 2015 **invited presenter**, Garfin G, **Weiss J**, Crimmins M, "Climate and Geospatial Extension", University of Arizona Extension Administrative Retreat, Tucson AZ
- 2014 poster judge, GeoDaze 42nd Annual Geoscience Symposium, Tucson AZ
- 2013 reviewer, CLIMAS Climate and Society Graduate Fellows Program applications, Tucson AZ
- 2013 **invited guest**, Southwest Climate Podcast, Southwest Climate Change Network, Tucson AZ
- 2011 reviewer, University of Arizona Graduate and Professional Student Council Travel Grant applications, Tucson AZ

Media interviews and figure requests (selected from over 250)

Arizona Public Media, *Audubon Magazine*, *BioScience*, *ClimateWire*, *Cronkite Journalism School*, *ESRI News*, *LA Times*, *National Geographic*, *The New York Times*, *Rolling Stone*, *Thomson Reuters*, *Univision*, *Vox*

Reviewer (journals)

Arizona Cooperative Extension, *Climatic Change*, *ELEMENTA*, *Environmental Management*, *Geophysical Research Letters*, *Global Change Biology*, *International Journal of Climatology*, *Journal of Arid Environments*, *Journal of Climate*, *Journal of Geoscience and Environment Protection*, *Michigan Journal of Sustainability*, *Nature Climate Change*, *Photogrammetric Engineering & Remote Sensing*

PROFESSIONAL TRAINING

- 2020 NASA Applied Remote Sensing Training Program, "Satellite Remote Sensing for Agricultural Applications"
- 2020 Esri MOOC, "Spatial Data Science: The New Frontier in Analytics"
- 2020 Udemy, "The Complete SQL Bootcamp"
- 2019 NASA Applied Remote Sensing Training Program, "Earth Observations for Disaster Risk Assessment and Resilience"
- 2019 Alan Alda Center for Communicating Science Workshop
- 2018 University of Arizona 2018 Conference/In-service, "Bringing the Heart of Extension to our Communities"

- 2017 University of Arizona 2017 Conference/In-service, "Separating Fact from Fiction: The Role of Cooperative Extension"
- 2016 Southwest Extension Climate Workshop, "A Solutions Focus: Actionable Climate Change Information for the Southwest Region"
- 2016 University of Arizona Cooperative Extension 2016 Conference/In-service, "Water"
- 2015 Faculty Learning Communities - University of Arizona and Association of American Universities Undergraduate STEM Education Project
- 2015 UA-1223-0 Research: Write Winning Grant Proposals - University of Arizona and Grant Writers' Seminars & Workshops, LLC

PROFESSIONAL AFFILIATIONS & SOCIETIES

- 2019-present WERA102 Climate Data and Analyses for Applications in Agriculture and Natural Resources
- 2017-present Center for Climate Adaptation Science and Solutions (CCASS)
- 2005-present Climate Assessment for the Southwest (CLIMAS)
- 2008-2020 American Geophysical Union

PUBLIC SERVICE

- 2005-2017 volunteer, Sonoran Desert Weedwackers, Pima County AZ
- 2004-2005 volunteer, Tucson Audubon Society, Pima County AZ

TECHNICAL SKILLS

- R, Python, SQL, PostgreSQL, MATLAB
- netCDF, observational, climate model, and remote sensing data
- large multidimensional and spatiotemporal datasets, cloud computing, relational databases
- regression, time series, probability, clustering, data reduction, cluster analysis
- Bash Unix Shell, Linux, Git, GitHub
- ESRI ArcGIS, PostGIS, geodatabases

LANGUAGE SKILLS

- English (native)
- Spanish (intermediate-mid, 15 weeks international work and travel)
- French (novice-low, 6 weeks international work and travel)

FIELDWORK EXPERIENCE

- 2009 dendrochronology sampling, AZ USA
- 2005 lake coring expedition to Galápagos, Ecuador
- 1999-2000 biological identification and wetland delineation, NM and TX USA
- 1998-1999 agricultural research projects, AZ USA
- 1997 surveying and botanical identification, AZ USA