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College of Architecture, Planning, and Landscape Architecture
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EDUCATION

- 2019 **Ph.D. in Arid Lands Resource Sciences and Minor in Global Change,**
Graduate Interdisciplinary Degree Program, University of Arizona
- 2005 **M.S. in Planning,** School of Planning, University of Arizona
- 2003 **B.A. in Media Arts and Minor in Japanese,** School of Media Arts and
Department of East Asian Studies, University of Arizona

ACADEMIC APPOINTMENTS & EMPLOYMENT

- 2024-Present Associate Professor of Planning, School of Landscape Architecture and Planning,
University of Arizona
- Faculty affiliations with the Udall Center for Studies in Public Policy (2022-Present), School of Geography, Development and Environment (2021-Present), Global Change Graduate Interdisciplinary Program (2019-Present), and Arid Lands Resource Sciences Graduate Interdisciplinary Program (2019-Present)
- 2025-Present Distinguished Scholar, University of Arizona
- 2024-Present Director, Heat Resilience Initiative, Arizona Institute for Resilience, University of Arizona
- 2019-2024 Assistant Professor of Planning and Sustainable Built Environments, School of Landscape Architecture and Planning, University of Arizona
- 2017-2022 Chair of Sustainable Built Environments, School of Landscape Architecture and Planning, University of Arizona
- 2009-2019 Lecturer, School of Landscape Architecture and Planning, University of Arizona
- 2016-2017 Director of Academic Initiatives and Student Success, College of Architecture, Planning, and Landscape Architecture, University of Arizona
- 2012-2015 Coordinator of Sustainable Built Environments, College of Architecture, Planning, and Landscape Architecture, University of Arizona

Ladd Keith, Ph.D.

- 2009-2011 Principal Planner, Urbano Group, LLC, Tucson, Arizona
- 2006-2009 Senior Planner, Engineering & Environmental Consultants, Inc., Tucson, Arizona
- 2005 Planner, Engineering & Environmental Consultants, Inc., Tucson, Arizona
- 2004 Planning Intern, Town of Oro Valley, Arizona

PUBLICATIONS

*Student advisee †Editor reviewed

Refereed Journal Articles

32. **Keith, Ladd** and Sara Meerow. (2026). Our “heatshed” moment is now. *Journal of Urban Affairs*. <https://doi.org/10.1080/07352166.2025.2526490> ⁺
31. Brown, Heidi E., Erika Austhof, Daniel Ferguson, and **Ladd Keith**. (2026). Role of public health in wildfire: Lessons from the field. *EcoHealth*. <https://doi.org/10.1007/s10393-026-01784-8>
30. Currans, Kristina M., **Ladd Keith**, Nicole Iroz-Elardo, Ashley Avila*, and Brenden J. Little*. (2026). Evaluating the impacts of cool pavement on pedestrian-level heat stress indicators. *Discover Cities*. 3, 31. <https://doi.org/10.1007/s44327-026-00211-5>
29. Lim, Chris Chaeha, Jonathan A. Race, Parneet Kaur, Honghyok Kim, Ran Wei, Xiaojiang Li, **Ladd Keith**, Lynn B. Gerald, Brian Drummond, Noah M. Tolby, and N. Clay Mann. (2026). Trends and Disparities in Heat-Related Emergency Medical Services Activations. *Journal of the American Medical Association*. 335(9), 818-820. <https://doi.org/10.1001/jama.2025.26586>
28. Boyer, Anne-Lise, Minwoo Ahn, **Ladd Keith**, and Heidi E. Brown. (2026). Striving for Rural Heat Resilience: A systematic literature review. *Weather, Climate, and Society*. 18(1), 17-31. <https://doi.org/10.1175/WCAS-D-25-0047.1>
27. Archie, Kelli M., Daniella Hirschfeld, Sara Meerow, James C. Arnott, **Ladd Keith**, Julie A. Vano, and Emilio Mateo. (2025). Too hot to handle: Assessing practitioner climate service needs to advance heat resilience. *Climate Services*. 40(2025), 100606. <https://doi.org/10.1016/j.cliser.2025.100606>
26. Jensen, Lauren*, **Ladd Keith**, Sara Meerow, Philip Berke, Erika Schmidt*, and Shaylynn Trego*. (2025). Planning to Mitigate Heat in Vulnerable Neighborhoods: Applying the Plan Integration for Resilience Scorecard™ for Heat in Two Boston Neighborhoods. *Journal of Urban Affairs*. 2025, 1-23. <https://doi.org/10.1080/07352166.2025.2526494>
25. Leyba, Bryan*, Sara Meerow, Alexandra Busch, Doris Damyanovic, and **Ladd Keith**.

- (2025). Planning for Heat Resilience in Increasingly Vulnerable Cities: A Case Study of Vienna, Austria. *Sustainable Cities and Societies*. 131(2025), 106683.
<https://doi.org/10.1016/j.scs.2025.106683>
24. Trego, Shaylynn*, Sara Meerow, **Ladd Keith**, and David M. Hondula. (2025). Heat mitigation and management in the City of Phoenix, AZ: A case study of America's hottest large city. *Journal of Urban Affairs*. 2025, 1-12.
<https://doi.org/10.1080/07352166.2025.2511021>
23. Sobhaninia, Saeideh, Sara Meerow, **Ladd Keith**, Malini Roy, Shaylynn Trego*, and Melina Matos. (2025). A comparison of plan integration for flood and heat resilience: A case study of Baltimore, Maryland. *International Journal of Disaster Risk Reduction*. 127(2025), 105638. <https://doi.org/10.1016/j.ijdrr.2025.105638>
22. Ahn, Minwoo, Heidi E. Brown, and **Ladd Keith**. (2025). Rural heat health disparities: Evidence from the U.S. National Emergency Medical Services Information System (NEMSIS). *The Journal of Climate Change and Health*. 22(2025), 100432.
<https://doi.org/10.1016/j.joclim.2025.100432>
21. Watkins, Lance, Heidi E. Brown, **Ladd Keith**, Erika Austhof, Hsini Lin Cox, Samuel N. Chambers, Joseph Tabor, Aaron Gettel, and Melissa Guardaro. (2024). A co-produced workflow for addressing inequities in cooling center access. *Community Science*. 3(4), e2023CSJ000038. <https://doi.org/10.1029/2023CSJ000038>
20. Roy, Malini, **Ladd Keith**, Mona Arora, Fatima Luna, and Julie Robinson. (2024). Coproducing Opportunities to Advance Extreme Heat Resilience in Southern Arizona. *Bulletin of the American Meteorological Society*. 105(11), E2070-E2077.
<https://doi.org/10.1175/BAMS-D-24-0216.1>
19. Amaripadath, Deepak, Alamin Molla*, **Ladd Keith**, and David J. Sailor. (2024). Multi-criteria decision support framework for outdoor heat stress management in urban environments in changing climates. *Sustainable Cities and Society*. 114(1), 105799.
<https://doi.org/10.1016/j.scs.2024.105799>
18. Meerow, Sara and **Ladd Keith**. (2024). Cities at the Forefront of Emerging U.S. Heat Governance. *One Earth*. 7(8), 1330-1334. <https://doi.org/10.1016/j.oneear.2024.07.013> ⁺
17. Meerow, Sara, **Ladd Keith**, Malini Roy, and Shaylynn Trego*. (2024). Plan evaluation for heat resilience: Complementary methods to comprehensively assess heat planning in Tempe and Tucson, Arizona. *Environmental Research Letters*. 19(8), 084050.
<https://doi.org/10.1088/1748-9326/ad5d05>
16. Iuliano, Joseph E.* and **Ladd Keith**. (2024). Shifting Gears: A case study of bicycle planning and decision-making in Tucson, Arizona. *Active Travel Studies*. 4(1).
<https://doi.org/10.16997/ats.1506>

15. **Keith, Ladd**, Sara Meerow, Lauren Jensen*, Shaylynn Trego*, Erika Schmidt*, and Philip Berke. (2023). Evaluating urban heat mitigation across networks of plans. *Journal of Planning Education and Research*. 45(2), 427-440. <https://doi.org/10.1177/0739456X231215780>
14. Trego, Shaylynn*, Sara Meerow, and **Ladd Keith**. (2023). Heat planning in small and medium-sized cities: A Collaborative application of PIRS™ for Heat in Kent, WA, USA. *Socio-Ecological Practice Research*. (5)4, 409-422. <https://doi.org/10.1007/s42532-023-00166-6>
13. **Keith, Ladd**, C.J. Gabbe, and Erika Schmidt*. (2023). Urban Heat Governance: Examining the Role of Urban Planning. *Journal of Environmental Policy and Planning*. 25(5), 642-662. <https://doi.org/10.1080/1523908X.2023.2244446>
12. Chambers, Samuel N., Heidi Brown, **Ladd Keith**, and Erika Austhof. (2023). Development of a Geographic Human Heat Balance Equation to Support Public Health Analyses: An Arizona Urban Sun Corridor application. *Remote Sensing Applications: Society and Environment*. 32(2023), 101009. <https://doi.org/10.1016/j.rsase.2023.101009>
11. Chambers, Samuel N., Geoffrey A. Boyce, Daniel E. Martinez, Coen Bongers, and **Ladd Keith**. (2023). The contribution of physical exertion to heat-related illness and death in the Arizona borderlands. *Spatial and Spatio-temporal Epidemiology*. 46(2023), 100590. <https://doi.org/10.1016/j.sste.2023.100590>
10. Sami, Ida* and **Ladd Keith**. (2023). How do streetcar transit users and streetcar decision-makers perceive heat risk? *Journal of Public Transportation*. 25(2023), 100045. <https://doi.org/10.1016/j.jpubtr.2023.100045>
9. Hughes, Halley B.*, David D. Breshears, Kimberly J. Cook*, **Ladd Keith**, and Joseph Robert Burger. (2023). Household energy use response to extreme heat evaluated with a biophysical model of temperature regulation: An Arizona case study. *PLOS Climate*. 2(4), e0000110. <https://doi.org/10.1371/journal.pclm.0000110>
8. Crisman, Jonathan Jae-An, **Ladd Keith**, Ida Sami*, and Gregg M. Garfin. (2023). “Chill City”: The design and learning outcomes of interactive games about urban planning and extreme heat. *The Journal of Environmental Education*. 54(3), 225-239. <https://doi.org/10.1080/00958964.2023.2183173>
7. Iuliano, Joseph E.* and **Ladd Keith**. (2022). Near Misses and Split Routes: Comparing Rider Behavior, Driver Interaction, and Route Choice for Cyclists. *Journal of Transportation Safety & Security*. 15(11), 1148-1171. <https://doi.org/10.1080/19439962.2022.2155745>
6. Brown, Heidi E., **Ladd Keith**, Valerie Madera-Garcia*, Anissa Taylor, Nicholas M. Ramirez, and Irene Ogata. (2022). Greening up for mosquitoes: A comparison of green stormwater infrastructure in a semi-arid region. *Journal of the American Mosquito Control*

Association. 38(2), 109-112. <https://doi.org/10.2987/21-7055>

5. Meerow, Sara and **Ladd Keith**. (2022). Planning for extreme heat: A national survey of U.S. planners. *Journal of the American Planning Association*. 88(3), 319-334. <https://doi.org/10.1080/01944363.2021.1977682>
4. **Keith, Ladd**, Sara Meerow, David M. Hondula, V. Kelly Turner, and James C. Arnott. (2021). Deploy heat officers, policies and metrics. *Nature*. 598(7879), 29-31. <https://doi.org/10.1038/d41586-021-02677-2> ⁺
3. **Keith, Ladd**, Nicole Iroz-Elardo, Erika Austhof, Ida Sami*, and Mona Arora. (2021). Extreme Heat at Outdoor COVID-19 Vaccination Sites. *The Journal of Climate Change and Health*. 4(2021), 100043. <https://doi.org/10.1016/j.joclim.2021.100043>
 - **Keith, Ladd**, Nicole Iroz-Elardo, Erika Austhof, Ida Sami*, and Mona Arora. (2021). Response to correspondence on "Extreme heat at outdoor COVID-19 vaccination sites." *The Journal of Climate Change and Health*. 4(2021), 100073. <https://doi.org/10.1016/j.joclim.2021.100073>
2. **Keith, Ladd**, Sara Meerow, and Tess Wagner*. (2019). Planning for extreme heat: A review. *Journal of Extreme Events*, 6(03n04), 2050003. <https://doi.org/10.1142/S2345737620500037>
1. Austhof, Erika, Vjollca Berisha, Ben McMahan, Gigi Owen, **Ladd Keith**, Matthew Roach, and Heidi E. Brown. (2020). Participation and Engagement of Public Health Stakeholders in Climate and Health Adaptation. *Atmosphere*, 11(3), 265. <https://doi.org/10.3390/atmos11030265>

Manuscripts Under Review

6. Roy, Malini, **Ladd Keith**, Sara Meerow, and Drew Szentesy*. Planning for Multi-hazards: A Literature Review.
5. Avila, Ashley*, Nicole Iroz-Elardo, Kristina M. Currans, and **Ladd Keith**. (Revise and resubmit). A pilot study exploring the effect of vehicular waste heat on personal heat exposure.
4. Sobhaninia, Saida, Sara Meerow, **Ladd Keith**, Alekzander E. Ryan*, and Aaron Bouschor*. (Under review). A global assessment of heat action plans.
3. **Keith, Ladd**, Sara Meerow, Malini Roy, Shaylynn Trego*, and Saida Sobhaninia. (Revise and resubmit). Integrating three plan evaluation approaches for coordinated heat resilience in cities across the Arizona urban corridor.
2. Roy, Malini, Ladd Keith, Sara Meerow, Saida Sobhaninia, and Shaylynn Trego*. (Revise and resubmit). Assessing heat resilience coordination in networks of plans.

1. Ahn, Minwoo, Anne-Lise Boyer, **Ladd Keith**, Heidi E. Brown, and Sara Meerow. (Under review). Innovations in global heat governance: Exploring the role of Chief Heat Officers.

Refereed Monograph

1. **Keith, Ladd** and Sara Meerow. (2022). Planning for Urban Heat Resilience. Planning Advisory Services (PAS) Report 600. American Planning Association (APA).
<http://www.planning.org/publications/report/9245695/>

Refereed Monograph Section

1. **Keith, Ladd**. (2022). Adaptation to Urban Heat in Tucson. In Matt Bucchin and Aaron Tuley (Authors), Planning for Climate Mitigation and Adaptation. Planning Advisory Services (PAS) Report 601. American Planning Association (APA). (pp. 113-115).
<https://www.planning.org/publications/report/9250330/>

Refereed Technical Reports

4. Pinto, Izidine, Clair Barnes, Sjoukje Philip, Sarah Kew, Ruth Cerezo-Mota, Arielle Tannenbaum, Shel Winkley, Andrew Pershing, Maja Vahlberg, Carolina Pereira Marghidan, Karina Izquierdo, Sajanika Sivanu, **Ladd Keith**, Michael Kleeman, and Friederike E L Otto. (2024). Extreme heat killing more than 100 people in Mexico hotter and much more likely due to climate change. World Weather Attribution (WWA).
<https://doi.org/10.25561/112370>
3. West, Maddie, Julie Arrighi, Hunter Jones, **Ladd Keith**, Kim Knowlton, Rupa Kumar Kolli, Andreas Matzarakis, Jason Lee, Chao Ren, Audrey Tan, and Abhiyant Tiwari. (2023). Reporting on Heatwaves and the Health Impacts of Heat. Global Heat Health Information Network (GHHIN). <https://ghhin.org/press/>.
2. Iroz-Elardo, Nicole, **Ladd Keith**, Kristi M. Currans, Ashley Avila*, Lauren Heath*, Brenden J. Little*, Ethan C. Wissler*, and Andrew J. Birkelbach*. (2023). Assessing Cool Corridor Heat Resilience Strategies for Human-Scale Transportation. NITC-RR-1483. Portland, OR: Transportation Research and Education Center (TREC).
1. Shumake-Guillemot, Joy (Ed.), Sulfikar Amir, Nausheen Anwar, Julie Arrighi, Stephan Böse-O'Reilly, Matt Brearley, Jamie Cross, Hein Daanen, Francesca de'Donato, Bernd Eggen, Andreas Flouris, Nicola Gerrett, Werner Hagens, Alina Herrmann, Maud Huynen, Hunter Jones, **Ladd Keith**, Aalok Khandekar, Jason Lee, Rachel Lowe, Franziska Matthies-Wiesler, Marie Morrella, Nathan Morris, Claudia Di Napoi, Anindrya Nastiti, Ian Norton, Lars Nybo, Elspeth Oppermann, Roop Singh, Lesliam Quiros-Alcala, Anouk Roeling, Ana M. Rule, Gerardo Sanchez Martinez, Joris van Loenhout, Peter Van Den Hazel, Kirsten Vanderplanken, and Benjamin Zaitchik. (2020). Protecting Health from Hot Weather during the COVID-19 Pandemic. Global Heat Health Information Network (GHHIN). <http://www.ghhin.org/heat-and-covid-19/>

Non-Refereed Technical Reports

31. Currans, Kristina M., Sofia Dracopoulos, Aviel Fitch, Paul George-Blazevich, Amanda Grant, **Ladd Keith**, Parker King, Amanda Lucero, Ariane Middel, Peter Price, Artemis-June Torre, Jennifer Vanos, and Carson Woodruff. (2026). Exploring Urban Heat as a Pedestrian: A MaRTy Cart Study of Tucson, Arizona in June 2025. Southwest Urban Corridor Integrated Field Laboratory (SW-IFL) – Arizona State University and University of Arizona. <https://doi.org/10.2458/10150.679953>
30. Turner, V. Kelly, **Ladd Keith**, Sara Meerow, Elizabeth M. Cook, Jason A. Douglas, C.J. Gabbe, Ronnen Levinson, Theo Lim, Ariana Middel, Glenn Sheriff, Florian Schneider, Chris Uejio, Jennifer Vanos, and Olga Wilhelmi. (2026). Building Heat Resilience Communities: A Practical Framework and Workbook for Local Planning, Decision-Making, and Action (Draft). University of California, Los Angeles, Luskin Center for Innovation. <https://escholarship.org/uc/item/5rd88827>
29. Roy, Malini, Sara Meerow, **Ladd Keith**, Shaylynn Trego*, and Saeideh Sobhaninia. (2025). Plan Quality Evaluation for Heat Resilience Guidebook: A Methodological Guide for Practitioners and Researchers. Southwest Urban Corridor Integrated Field Laboratory (SW-IFL) – Arizona State University and University of Arizona. <https://repository.arizona.edu/handle/10150/677075>
28. **Keith, Ladd**, Meerow, Sara Meerow, Malini Roy, Shaylynn Trego*, Lindsey Jordan*, Kavana Sadashive Gowda*, and Karli Barrett*. (2024). Plan Evaluation for Heat Resilience: City of Nogales, AZ. Southwest Urban Corridor Integrated Field Laboratory (SW-IFL) – Arizona State University and University of Arizona. <https://repository.arizona.edu/handle/10150/674048>
27. **Keith, Ladd**, Sara Meerow, Malini Roy, Shaylynn Trego*, Lindsey Jordan*, Karli Barret*, and Kavana Sadashive Gowda*. (2024). Plan Evaluation for Heat Resilience: City of Mesa, AZ. Southwest Urban Corridor Integrated Field Laboratory (SW-IFL) – Arizona State University and University of Arizona. <https://repository.arizona.edu/handle/10150/674047>
26. **Keith, Ladd**, Sara Meerow, Malini Roy, Shaylynn Trego*, Karli Barrett*, Lindsey Jordan*, and Kavana Sadashive Gowda*. (2024). Plan Evaluation for Heat Resilience: City of Flagstaff, AZ. Southwest Urban Corridor Integrated Field Laboratory (SW-IFL) – Arizona State University and University of Arizona. <https://repository.arizona.edu/handle/10150/674046>
25. **Keith, Ladd**, Sara Meerow, Malini Roy, Shaylynn Trego*, Kavana Sadashive Gowda*, Karli Barrett*, and Lindsey Jordan*. (2024). Plan Evaluation for Heat Resilience: City of Casa Grande, AZ. Southwest Urban Corridor Integrated Field Laboratory (SW-IFL) – Arizona State University and University of Arizona. <https://repository.arizona.edu/handle/10150/674045>

24. CLIMAS. (2024). *Principles and Practices for Ethical Socially Engaged Research*. University of Arizona, Climate Assessment for the Southwest (CLIMAS). https://climas.arizona.edu/sites/climas.arizona.edu/files/2024-05/CLIMAS%20ethical%20principles%20may%202024_5-20-24.pdf
23. Meerow, Sara, **Ladd Keith**, Malini Roy, Shaylynn Trego*, Erika Schmidt*, Jack Haskins*, and Bryan Leyba*, and Lindsey Jordan*. (2023). Plan Evaluation for Heat Resilience: City of Tempe, AZ. Southwest Urban Corridor Integrated Field Laboratory (SW-IFL) – Arizona State University and University of Arizona. <https://repository.arizona.edu/handle/10150/670109>
22. Trego, Shaylynn*, Sara Meerow, **Ladd Keith**, Erika Schmidt*, Bryan Leyba*, and Lindsey Jordan*. (2023). Plan Evaluation for Heat Resilience: City of Phoenix, AZ. Southwest Urban Corridor Integrated Field Laboratory (SW-IFL) – Arizona State University and University of Arizona. <https://repository.arizona.edu/handle/10150/670044>
21. **Keith, Ladd**, Sara Meerow, Malini Roy, Shaylynn Trego*, Erika Schmidt*, Jack Haskins*, and Bryan Leyba*. (2023). Plan Evaluation for Heat Resilience: City of Tucson, AZ. Southwest Urban Corridor Integrated Field Laboratory (SW-IFL) – Arizona State University and University of Arizona. <https://repository.arizona.edu/handle/10150/669877>
20. Brown, Heidi E., **Ladd Keith**, Sam Chambers, Kristina M. Currans, Erika Austhof, Cheyenne R. McChesney. (2023). Cooling Center Walkshed & Transit Accessibility Analysis. A Report for the Arizona CDC Building Resilience Against Climate Effects (BRACE) project. University of Arizona.
19. **Keith, Ladd**, Sara Meerow, Shaylynn Trego*, and Erika Schmidt*. (2022). City of Tempe, AZ: Plan Integration for Resilience Scorecard™ (PIRS™) for Heat. <https://repository.arizona.edu/handle/10150/666700>
18. **Keith, Ladd**, Sara Meerow, Shaylynn Trego*, Erika Schmidt*, Lauren Jensen*, Philip Berke, and Joseph DeAngelis. (2022). City of Kent, WA: Plan Integration for Resilience Scorecard™ (PIRS™) for Heat. <https://www.planning.org/media/document/9260042/>
17. **Keith, Ladd**; Sara Meerow, Philip Berke, Joseph DeAngelis, Lauren Jensen*, Shaylynn Trego*, Erika Schmidt*, and Stephanie Smith*. (2022). Plan Integration for Resilience Scorecard™ (PIRS™) for Heat: Spatially evaluating networks of plans to mitigate heat (Version 1.0). <https://www.planning.org/publications/document/9257652/>
16. Chambers, Samuel N., Heidi E. Brown, **Ladd Keith**, and Erika Austhof. (2022). Summary of Body Heat Exposure Layer Development. A Report for the Arizona CDC Building Resilience Against Climate Effects (BRACE) project. University of Arizona.

15. Von Ohlen, Kurt*, Heidi E. Brown, **Ladd Keith**, Erika Austhof, Lance Watkins, and Sam Chambers. (2022). Summary of Pima County Cooling Center Spatial Optimization. A Report for the Arizona CDC Building Resilience Against Climate Effects (BRACE) project. University of Arizona.
14. **Keith, Ladd**, Nicole Iroz-Elardo, Ida Sami*, and Erika Austhof. (2021). Extreme Heat at Outdoor Vaccination Sites: Banner South (Kino) Report. University of Arizona.
13. **Keith, Ladd**, Nicole Iroz-Elardo, Ida Sami*, and Erika Austhof. (2021). Extreme Heat at Outdoor Vaccination Sites: Tucson Medical Center (TMC) Report. University of Arizona.
12. **Keith, Ladd**, Nicole Iroz-Elardo, Ida Sami*, and Erika Austhof. (2021). Extreme Heat at Outdoor Vaccination Sites: UArizona POD Report. University of Arizona.
11. **Keith, Ladd**, Peggy Brimhall, Jill Allen Dixon, Chanceé Lundy, Riki Nishimura, Lauren McKim Callaghan, and August Williams-Eynon. (2020). Dallas, Texas: Tornado Recovery Emphasizing Urban and Climate Resilience around the Walnut Hill/Denton Drive Dallas Rapid Transit Station. Urban Land Institute, Advisory Services.
<http://doi.org/10.13140/RG.2.2.16222.77126>
10. Meadow, Alison M., Jeremy Weiss, Sarah LeRoy, and **Ladd Keith**. (2020). Climate Profile for the Verde Valley. University of Arizona, Climate Assessment for the Southwest (CLIMAS). <https://doi.org/10.13140/RG.2.2.15258.26566>
9. **Keith, Ladd**, Ben McMahan, and Tess Wagner*. (2019). Urban heat island maps and decision making. University of Arizona, Climate Assessment for the Southwest (CLIMAS). <http://doi.org/10.13140/RG.2.2.35788.49282>
8. Meadow, Alison M., Jeremy Weiss, Sarah LeRoy, **Ladd Keith**, Sharon Hausam, Ellu Nasser, Sascha Petersen, Alex Basaraba, and Nyssa Russell. (2019). Climate Profile for the Pueblo of Laguna. University of Arizona, Climate Assessment for the Southwest (CLIMAS).
7. **Keith, Ladd**, Michelle Beaman Chang, Jason Bonnet, Samia Byrd, John Macomber, Michael Rodriguez, Susannah Ross, Matt Steenhoek, Byron Stigge, Jay Valgora, Lauren McKim Callaghan, and Leah Sheppard. (2019). Miami, Florida: The Riverfront, the Bayfront, and the Ridge - A Holistic Approach to Waterfront Resilience. Urban Land Institute, Advisory Services. <https://doi.org/10.13140/RG.2.2.21986.27849>
6. Meadow, Alison M., Sarah LeRoy, Jeremy Weiss, and **Ladd Keith**. (2019). Climate profile for the Highlands at Dove Mountain. University of Arizona, Climate Assessment for the Southwest (CLIMAS). <http://doi.org/10.13140/RG.2.2.16389.83684>
5. Meadow, Alison M., Sarah LeRoy, Jeremy Weiss, and **Ladd Keith**. (2018). Climate profile for the City of Flagstaff, Arizona. University of Arizona, Climate Assessment for the Southwest (CLIMAS). <https://doi.org/10.13140/RG.2.2.20826.70083>

4. **Keith, Ladd**, Marcel Acosta, Amitabh Marthakur, Neal Payton, Jamie Simchik, Julie Underdahl, Cassie Wright, Paul Angelone, Alex Schoeder, and Clay Holk. (2018). Jacksonville, Florida: Leveraging Transit for Economic Development. Urban Land Institute, Advisory Services. <https://doi.org/10.13140/RG.2.2.12758.80960>
3. Taylor, Marilyn J., Zelalam Adefris, Janice Barnes, Matthijs Bouw, Dennis Carlberg, Justin Chapman, Tracy Gabriel, Mariane Jang, **Ladd Keith**, John Macomber, Molly McCabe, Cynthia McHale, Christine Morris, Jim Murley, Josh Murphy, and Phil Payne. (2018). Ten Principles for Building Resilience. Urban Land Institute. <http://doi.org/10.13140/RG.2.2.12653.95203>
2. Gurol, Kamuron, **Ladd Keith**, Shane Farthing, Richard Henderson, Anita Morrison, Carlos F. Perez, Jodi Slick, Alejandro Villegas, Katharine Burgess, Paul Angelone, and Leah Sheppard. (2016). El Paso, Texas: Active Transportation System. Urban Land Institute, Advisory Services. <http://doi.org/10.13140/RG.2.2.29536.02568>
1. Heid, Jim, Margaret Kaigh Doyle, Tracy Gabriel, **Ladd Keith**, Alan Razak, Michael A. Stern, Lindsey Willke, Sarene Marshall, Beth Silverman, and Paul Angelone. (2015). St. Tammany Parish, Louisiana: Bridging the Divide with the South Central Study Area through Resilience. Urban Land Institute, Advisory Services. <http://doi.org/10.13140/RG.2.2.14017.10084>

Op-Eds

3. **Keith, Ladd**. (2022). Extreme heat is here. Here's how we create a heat-resilient nation. *Smart Cities Dive*. July 13, 2022. <https://www.smartcitiesdive.com/news/opinion-extreme-heat-local-frameworks-national-legislation-climate-change/627091/>
2. **Keith, Ladd** and Andrea K. Gerlak. (2021). There's no place in the US safe from the heat. *The Hill*. August 20, 2021. <https://thehill.com/opinion/energy-environment/568718-theres-no-place-in-the-us-safe-from-the-heat>
1. **Keith, Ladd** and Sara Meerow. (2021). Cities must plan for heat resilience now. *Thomson Reuters Foundation*. July 5, 2021. <https://news.trust.org/item/20210705161002-pz8g0/>

Other Publications

6. Boyer, Anne-Lise, Minwoo Ahn, and **Ladd Keith**. (2025). Expanding the Focus: Toward Heat Equity in Rural Areas. *Just Rural Futures*. February 22, 2025. <https://justruralfutures.substack.com/p/expanding-the-focus-toward-heat-equity>
5. Meerow, Sara and **Ladd Keith**. (2023). Growing Heat Hazards from Climate Change and the Urban Heat Island Need to Be Integrated Across Siloed Urban Plans. Here's How. *The Nature of Cities*. June 21, 2023. <https://www.thenatureofcities.com/2023/06/21/growing-heat-hazards-from-climate-change-and-the-urban-heat-island-need-to-be-integrated-across->

[siloed-urban-plans-heres-how/](#)

4. West, Maddie and **Ladd Keith**. (2023). Creating Cool and Resilient Communities: Integrating Plans for Urban Heat Mitigation. *Global Heat Health Information Network*. May 30, 2023. <https://ghhin.org/news/creating-cool-and-resilient-communities-integrating-plans-for-urban-heat-mitigation/>
3. Meerow, Sara and **Ladd Keith**. (2022). Heat Risks are Rising in Cities Worldwide — Here Is How to Plan for Urban Heat Resilience. *The Nature of Cities*. June 13, 2022. <https://www.thenatureofcities.com/2022/06/13/heat-risks-are-rising-in-cities-worldwide-here-is-how-to-plan-for-urban-heat-resilience/>
2. **Keith, Ladd** and Sara Meerow. (2021). Urban Heat Resilience. Planning Advisory Services (PAS) QuickNotes 95. American Planning Association (APA). <https://www.planning.org/publications/document/9219132/>
1. **Keith, Ladd** and Sara Meerow. (2021). Beat Extreme Heat with These 8 Tactics. *Planning Magazine*. Winter 2021, 12-14. <https://www.planning.org/planning/2021/fall/beat-extreme-heat-with-these-8-tactics/>

AWARDED RESEARCH GRANTS

Federal

- | | |
|-----------|---|
| 2024-2027 | U.S. National Oceanic and Atmospheric Administration (NOAA), Climate Program Office (CPO), National Integrated Heat Health Information System (NIHHIS). (2024-2027). \$2,250,000, subaward of \$107,321 to University of Arizona. “Center for Heat Resilient Communities” PI: V. Kelly Turner (UCLA); Co-I: Ladd Keith and Sara Meerow (ASU). |
| 2023-2026 | U.S. Department of Health and Human Services (HHS), National Institutes of Health (NIH), National Institute of Environmental Health Sciences. (2023-2026). “Southwest Center for Outreach and Resilience in Climate and Health (SCORCH).” \$3,814,815. PI: Kacey C. Ernst, Joseph H. Hoover, and Mona Arora; Co-I: Paloma Beamer, Ladd Keith , Shujuan Li, Chris Chaeha Lim, Yiwen Liu, Melissa MacLean, Cristian Roman Palacios, and Mackenzie Waller. |
| 2022-2027 | U.S. Department of Energy (DOE), Biological and Environmental Research Program (BER), Earth and Environmental Systems Sciences Division (EESD). (2022-2027). \$25,000,000, subaward of \$3,500,000 to University of Arizona. “Southwest Urban Corridor Integrated Field Laboratory (SW-IFL).” PI: David Sailor (ASU); Co-I: Ladd Keith , Kevin Gurney (NAU), Katia Lamer (Brookhaven National Laboratory), and Joshua New (Oak Ridge National Laboratory). |
| 2024-2025 | \$170,385. UIFL Supplemental Funding Opportunity. |

“Collaborative Evaluation of the Urban Integrated Field Laboratories (UIFLs) Transdisciplinary Team Science.” PI: **Ladd Keith**, Co-I: Kristina M. Currans, Gregg Garfin, and Alison Meadow.

- 2022-2027 U.S. National Oceanic and Atmospheric Administration (NOAA), Climate Program Office (CPO), Regional Integrated Science and Assessments (RISA). (2022-2027). \$5,997,673 (See individual project below). “Cultivating Equitable Responses to Increased Aridity in the US Southwest: The Climate Assessment for the Southwest (CLIMAS).” PI: Daniel Ferguson; Co-I: Heidi E. Brown, Stephanie Russo Carroll, Michael A. Crimmins, David DuBois (NMSU), George Frisvold, Hatim Geli (NMSU), Christina Greene, **Ladd Keith**, Travis Lane (ITCA), Gigi Owen, Alison Meadow, Lara Prihodko (NMSU), and Connie Woodhouse.
- 2022-2027 \$573,832. “Supporting Heat Resilience in Frontline Communities.” PI: **Ladd Keith**, Co-I: Heidi E. Brown and David DuBois (NMSU).
- 2021-2026 U.S. Centers for Disease Control and Prevention (CDC). (2021-2026). \$2,000,000 awarded to Arizona Department of Health Services, \$486,504 subcontracted to University of Arizona. “Building Resilience Against Climate Effects (BRACE): Implementing and Evaluating Adaptation Strategies that Protect and Promote Human Health.” University of Arizona PI: Heidi E. Brown; Co-I: **Ladd Keith**.
- 2022 U.S. Department of Transportation (DOT), National Institute for Transportation & Communities (NITC), NITC 16 General Research Round 5. (2022). \$5,000. “NITC Diversity Grant Extension for Cool Corridors.” PI: **Ladd Keith**.
- 2021-2022 U.S. National Oceanic and Atmospheric Administration (NOAA), Climate Program Office’s Extreme Heat Risk Initiative. (2021-2022). \$147,474. “Plan Integration for Resilience Scorecard for Heat (PIRSH).” PI: **Ladd Keith**; Co-I: Sara Meerow (ASU) and Joseph DeAngelis (APA); Project Advisor: Philip Berke (UNC Chapel Hill).
- 2021-2022 U.S. Department of Transportation (DOT), National Institute for Transportation & Communities (NITC), NITC 16 General Research Round 5. (2021-2022). \$75,000. “Assessing Cool Corridor Heat Resilience Strategies for Human-Scale Transportation.” PI: **Ladd Keith**; Co-I: Nicole Iroz-Elardo and Kristina Currans.
- 2020-2021 U.S. National Oceanic and Atmospheric Administration (NOAA), Climate Program Office (CPO), A Regional Integrated Sciences and Assessments Program (RISA). (2020-2021). \$40,000. “Urban heat and health interventions and evidence gaps.” PI: **Ladd Keith**.
- 2017-2022 U.S. National Oceanic and Atmospheric Administration (NOAA), Climate Program Office (CPO), Regional Integrated Science and Assessments (RISA).

(2017-2022). \$3,727,990 (See individual projects below). “Collaboratively Assessing Critical Social-Ecological System Buffers to Help Build Regional Climate Resilience: The Climate Assessment for the Southwest (CLIMAS).” PI: Daniel Ferguson; Co-I: Heidi E. Brown, Michael A. Crimmins, George Frisvold, and Connie Woodhouse.

2018-2020 \$67,356. “Water harvesting as a mal-adaptation in respect to vector-borne diseases.” PI: Heidi E. Brown; Co-I: **Ladd Keith**.

2017-2020 \$487,586. “Community climate profiles to support adaptation planning.” PI: Alison Meadow; Co-I: **Ladd Keith**, Sarah LeRoy, and Jeremy Weiss.

2017-2019 \$121,336. “Evaluating the use of urban heat island and heat increase modeling in land use planning.” PI: **Ladd Keith**; Co-I: Ben McMahan.

2018-2019 U.S. Centers for Disease Control and Prevention (CDC), Pacific Southwest Regional Center of Excellence in Vector-borne Diseases (PACVEC) Training Grant Program. (2018-2019). \$25,000. “Is adaptation mal-adaptation: An assessment of mosquitos and water harvesting.” PI: Heidi E. Brown; Co-I: **Ladd Keith**.

2016-2017 U.S. National Oceanic and Atmospheric Administration (NOAA), Climate Program Office (CPO), Regional Integrated Sciences and Assessments (RISA), Climate Assessment in the Southwest (CLIMAS). (2016-2017). \$45,281. “Year 5 assessment: Urban resilience in Arizona and New Mexico.” PI: **Ladd Keith**.

Private Foundation

2020-2023 Robert Wood Johnson Foundation. (2020-2023) \$584,886 to ASU and City of Tempe, subaward of \$4,000 to University of Arizona. “Cool Kids, Cool Places, Cool Futures: Community-based, arts-enhanced, and youth-focused approach for equitable urban cooling and emergency management.” PI: Braden Kay (City of Tempe); Co-I: Katja Brundiers (ASU) and Paul Coseo (ASU); Research Support: **Ladd Keith**.

Other

2023 Cornell University, Center for Cities. (2023). \$19,964. “National Climate Adaptation Research Platform for Planning (NCARPP).” PI: Linda Shi (Cornell); Co-PIs: Ivis García (Texas A&M), Kian Goh (UCLA), Nikhil Kaza (UNC-Chapel Hill), **Ladd Keith**, Andrew Rumbach (Urban Institute), Jan Whittington (UW).

2022 City of Tucson. (2022). \$13,013. “Tucson Climate Action and Adaptation Plan” PI: Courtney Crosson; Co-I: **Ladd Keith**.

- 2021 University of Arizona, Office for Research, Innovation and Impact, Research Advancement Grants. (2021). \$8,403. "Extreme Heat at Pima County COVID-19 Vaccination Sites." PI: **Ladd Keith**; Co-I: Nicole Iroz-Elardo and Ida Sami; Project Advisor: Erika Austhof.
- 2020-2021 University of Arizona, Office for Research, Innovation, and Impact. (2020-2021). \$44,973. "Heat, Housing, and Health: Convergent Exposure and Thermal Insecurity in Mobile and Manufactured Housing." PI: Mark Kear; Co-I: Kacey Ernst, Gregg Garfin, **Ladd Keith**, Margaret Wilder, Patricia Solis (ASU), and David M. Hondula (ASU).
- 2020 University of Arizona, Office for Research, Innovation, and Impact. (2020). \$8,850. "Visioning a cooler Tucson: Participatory planning for extreme heat resilience." PI: Jonathan Jae-an Crisman; Co-I: **Ladd Keith** and Gregg Garfin.

HONORS AND AWARDS

- 2026 Convergence Award: Excellence in Applied Research and Engineering, University of Arizona
- 2026 Frontiers of Science Fellow (formerly Kavli Fellow), National Academy of Sciences
- 2025 Planner of the Year, The Western Planner
- 2025 Distinguished Scholar, University of Arizona
- 2025 Fulbright Specialist (National Institute of Technology, Patna in Patna, Bihar, India), The Fulbright Program
- 2022 Sheldon D. Gerber Merit Award for Excellence in Environmental Planning (awarded for Planning for Urban Heat Resilience), The Western Planner
- 2022 Open Category (Applied Research) (awarded for Planning for Urban Heat Resilience), American Planning Association, Arizona Chapter
- 2020 Darryl B. Dobras Award for Excellence, College of Architecture, Planning and Landscape Architecture, University of Arizona
- 2019 Rising Star Award, Advisory Services, Urban Land Institute
- 2016 40 Under 40, Urban Land Institute
- 2014 Darryl B. Dobras Award for Excellence, College of Architecture, Planning and Landscape Architecture, University of Arizona

2005 Student Planning Project Award for the Arizona City Area Plan in Pinal County, American Planning Association, Arizona Chapter

1999 Carol J. Carter Scholarship, University of Arizona

PRESENTATIONS

Invited Presentations

2026 Panelist, “Heat Response and Governance Under Pressure.” *Letters to a New Heat Officer: Accelerating Useful Learning for Urban Heat Action*. Harvard University, The Salata Institute for Climate and Sustainability. Boston, Massachusetts. May 6, 2026.

2026 Panelist, “AZPM presents Earth Days screening and discussion.” *Arizona Public Media (AZPM)*. Tucson, Arizona. April 21, 2026.

2026 Introductory Presenter, “Addressing the world’s most dangerous hazard through heat governance.” *2026 Frontiers of Science*. National Academy of Sciences. Irvine, California. March 5, 2026.

2026 Panelist, “Local and Global Perspectives on Extreme Urban Heat.” *Planning Webcast Series*. American Planning Association, Sustainable Communities Division. (Virtual). January 16, 2026.

2025 Workshop Presenter, “Planning for Heat Resilience Workshop.” *Fulbright Specialist Program*. National Institute of Technology, Patna. Patna, India. November 17-21, 2025.

2025 Keynote Presenter, “Advancing the Theory and Practice of Heat Resilience.” *Fulbright Specialist Program*. National Institute of Technology, Patna. Patna, India. November 10, 2025.

2025 Presenter, “Advancing Together – Community Resilience Seminar.” *American Red Cross, Southern Arizona Chapter*. Tucson, Arizona. May 12, 2025.

2025 Presenter, “Advancing Heat Resilience through University and Community Partnerships.” *Arizona Heat Kickoff Event*. Arizona Department of Health Services. April 14, 2025.

2025 Presenter, “Advancing Heat Resilience through University and Community Partnerships.” *Southern Arizona Heat Summit*. City of Tucson, Pima County, and the University of Arizona. Tucson, Arizona. February 1, 2025.

2025 Presenter, “Advancing Heat Resilience through University and Community

- Partnerships.” Building a Resilient Neighborhood (BaRN). Tucson, Arizona. January 29, 2025.
- 2024 Presenter, “Elements of heat governance.” *Extreme Heat Risk Reduction Technical Consultation*. World Meteorological Organization, United Nations Disaster Risk Reduction, and Global Heat Health Information Network. Geneva, Switzerland. December 18, 2024.
- 2024 Presenter, “Heat governance in Arizona, U.S.” *Extreme Heat Risk Reduction Technical Consultation*. World Meteorological Organization, United Nations Disaster Risk Reduction, and Global Heat Health Information Network. Geneva, Switzerland. December 18, 2024.
- 2024 Presenter, “A ‘Heatshed’ Moment for Communities in Crisis.” *TEDxUofA*. University of Arizona. Tucson, Arizona. October 18, 2024.
- 2024 Co-Presenter with Sara Meerow, “Data Driven Approaches to Planning for Extreme Heat.” *Sustainable Growth Webinar Series*. Smart Growth Online. (Virtual). August 20, 2024.
- 2024 Presenter, “Arizona heat governance and heat research program updates.” *Global Heat Health Information Network Management Committee Meeting*. Global Heat Health Information Network. Singapore. July 24, 2024.
- 2024 Presenter, “All-Hazards Mitigation Seminar: Extreme Heat.” *All-Hazards Mitigation Seminar*. Pima County, Office of Emergency Management. July 15, 2024.
- 2024 Presenter, “Addressing Extreme Heat in the Era of Global Overheating.” Society of Building Science Educators. Tucson, Arizona. July 10, 2024.
- 2024 Presenter and Panelist, “Co-creating community solutions to weather and climate challenges, Climate Adaptation Partnerships (CAP) Program.” *All-Interested Informational Briefing*. U.S. National Oceanic and Atmospheric Administration. Washington, D.C. May 2, 2024.
- 2024 Moderator, *8th Annual Arizona Extreme Heat Planning Workshop*. Arizona Department of Health Services, National Weather Service, Arizona State University, and University of Arizona. (Virtual). April 15, 2024.
- 2024 Co-Presenter with Kristina Currans, “Assessing Cool Corridor Heat Resilience Strategies for Human-Scale Transportation.” National Institute for Transportation and Communities (NITC). (Virtual). March 14, 2024.
- 2024 Presenter, “Heat Resilience in Southern Arizona.” *Southern Arizona Heat Summit*. City of Tucson, Pima County, and University of Arizona. Tucson, Arizona.

February 3, 2024.

- 2023 Presenter, “Urban Heat Resilience.” *All-In Meeting*. Third Act Arizona. (Virtual). November 16, 2023.
- 2023 Keynote Presenter and Panelist, “Urban Heat Resilience.” *World Town Planning Day (WTPD): Learn Globally; Apply Locally*. University of Hawai‘i at Mānoa and American Planning Association, Hawai‘i Chapter. Waikiki, Hawaii. November 8-10, 2023.
- 2023 Presenter, “Improving Urban Heat Planning and Media Coverage of Extreme Heat.” *Tucson Urban Heat Island Workshop*. City of Tucson, Tucson Water, and CLIMAS. Tucson, AZ. October 31, 2023.
- 2023 Presenter, “UA: Identifying Solutions to Mitigate and Manage Extreme Heat.” *Fourth Annual DC Summit: Health & The Environment*. University of Arizona. Washington, D.C. October 16-19, 2023.
- 2023 Panelist, “Tools to Assist Planners to Achieve Urban Heat Resilience.” *5th UEF and 59th ISOCARP World Planning Congress*. Urban Economy Forum (UEF) and International Society of City and Regional Planners (ISOCARP). (Virtual). September 20, 2023.
- 2023 Panelist, “Resilience Webinar: Extreme Heat #SummerReady.” *FEMA Hazard Mitigation Assistance*. U.S. Federal Emergency Management Agency (FEMA). (Virtual). August 16, 2023.
- 2023 Co-Presenter with Sara Meerow, “Plan Integration for Resilience Scorecard™ (PIRS™) for Heat.” *2nd Annual NIHHS Meeting*. U.S. National Integrated Heat Health Information System (NIHHIS). (Virtual). April 27, 2023.
- 2023 Presenter, “Plan Integration for Resilience Scorecard™ (PIRS™) for Heat.” *Manchester Heat Action Platform Workshop*. Adrienne Arsht-Rockefeller Foundation Resilience Center. (Virtual). April 20, 2023.
- 2023 Presenter, “Urban Heat Planning and Governance.” *Environmental Breakfast Club*. University of Arizona, College of Law. Tucson, Arizona. April 14, 2023.
- 2023 Presenter, “Planning for Urban Heat Resilience.” *Climate Change & Cardiovascular Disease Collaborative (CCC)*. Million Hearts and the U.S. Centers for Disease Control and Prevention. (Virtual). March 9, 2023.
- 2023 Presenter, “Advancing Heat Resilience.” *Perspectives on Resilience*. University of Arizona, Arizona Institute for Resilience (AIR). Tucson, Arizona. February 2, 2023.

- 2022 Co-Presenter with Sara Meerow, “Planning for Urban Heat Resilience.” *13th Urban Heat Island Workshop*. City of Tucson and Tucson Water. Tucson, Arizona. November 16, 2022.
- 2022 Presenter, “Planning for Urban Heat Resilience.” *Health and Environmental Change: Pushing Research Boundaries through Arizona-France Cooperation*. University of Arizona, France-Arizona Institute for Global Grand Challenges. Tucson, Arizona. November 16, 2022.
- 2022 Presenter, “Planning for Urban Heat Resilience.” *SGSUP Colloquium Series*. Arizona State University, School of Geographical Sciences and Urban Planning (SGSUP). Tempe, Arizona. November 14, 2022.
- 2022 Co-Presenter with Sara Meerow, “An Introduction to the Plan Integration for Resilience Scorecard™ (PIRS™) for Heat.” *Extreme Heat Risk Initiative Webinar Series*. U.S. National Integrated Heat Health Information System (NIHHIS). (Virtual). November 9, 2022.
- 2022 Co-Presenter and Facilitator with Sara Meerow, “Plan Integration for Resilience Scorecard™ (PIRS™) for Heat and PIRS™ for Heat Results for City of Tempe, AZ.” *Heat Resilience Workshop*. City of Tempe. Tempe, Arizona. November 7, 2022.
- 2022 Co-Presenter with Sara Meerow, “Planning for Urban Heat Resilience.” Arizona Heat Preparedness and Resilience Workgroup. (Virtual). October 6, 2022.
- 2022 Presenter, “Planning for Urban Heat Resilience.” *Arizona Senior Academy*. Academy Village. Vail, Arizona. September 14, 2022.
- 2022 Panelist, “Heat Resilience, Climate Adaptation, and Emergency Response.” *Building a Resilient Neighborhood*. Sustainable Tucson. (Virtual). September 13, 2022.
- 2022 Co-Presenter with Sara Meerow, “Planning for Urban Heat Resilience.” Urban Land Institute Austin – Local Council on Sustainability and Resilience. (Virtual). September 13, 2022.
- 2022 Presenter, “Planning for Urban Heat Resilience.” *Southwest Design Share*. DLR Group. (Virtual). September 9, 2022.
- 2022 Presenter, “Cool Corridors.” *2022 Climate 101 Workshop*. South Central Climate Adaptation Science Center (SCCASC). (Virtual). August 19, 2022.
- 2022 Facilitator, “Extreme Heat Resilience.” *Ideation Hour*. U.S. Federal Emergency Management Agency (FEMA), Resilient Nation Partnership Network (RNPN). (Virtual). June 29, 2022.

- 2022 Presenter, “Planning for Urban Heat Resilience.” *Cool Roof Outreach Quarterly Meeting*. Global Cool Cities Alliance (GCCA). (Virtual). June 29, 2022.
- 2022 Presenter, “Planning for Urban Heat Resilience.” *Living with Climate Change: Extreme Heat*. Environmental and Energy Study Institute (EESI). (Virtual). June 24, 2022.
- 2022 Presenter, “Planning for Urban Heat Resilience.” *SPAN Lecture Series*. Southwest Practitioners Adaptation Network (SPAN). (Virtual). May 23, 2022.
- 2022 Moderator, “Geospatial Online Tools for Public Participation Demonstrations.” *Mapping the Way Ahead: Online Geospatial Tools for Public Participation*. University of Arizona, Udall Center. Washington, D.C. May 11, 2022.
- 2022 Presenter and Moderator, “Community Perspectives: Roundtable discussion with state and local partners to understand current priorities and challenges in heat resilience planning.” *National Integrated Heat Health Information Systems (NIHHIS) National Meeting*. NIHHIS. (Virtual). April 26, 2022.
- 2022 Co-host and Moderator, *6th Annual Arizona Extreme Heat Planning Workshop*. Arizona Department of Health Services, National Weather Service, Arizona State University, and University of Arizona. (Virtual). April 25, 2022.
- 2022 Presenter, “City of Tucson Climate Action and Adaptation Plan.” *Drachman Institute Relaunch*. University of Arizona. Tucson, Arizona. April 13, 2022.
- 2022 Presenter, “Planning for Extreme Heat.” *Lifelong Learning in Retirement at the Highlands*. The Highlands at Dove Mountain. Marana, Arizona (Virtual). February 9, 2022.
- 2022 Presenter, “Planning for Extreme Heat & Equity.” *First Annual Symposium*. American Planning Association (APA) Sustainable Communities Division (SCD). (Virtual). January 13, 2022.
- 2021 Presenter, “Best Practices for Cross Governmental and Interdisciplinary Collaboration to Advance Heat Governance.” *Southeast Florida Regional Climate Change Compact’s Virtual Workshop*. (Virtual). November 8, 2021.
- 2021 Presenter, “National Perspectives to Local Applications.” *City of Tucson 12th Urban Heat Island Workshop*. (Virtual). November 3, 2021.
- 2021 Moderator and Presenter, “Prioritize and Integrate Heat Planning.” *National Integrated Heat Health Information Systems (NIHHIS) Urban Heat Island Community of Practice Webinar Series*. U.S. NOAA. (Virtual). October 28, 2021.

- 2021 Presenter, “Plan Integration and Governance.” *NOAA Climate and Equity Roundtable: Heat Resilience in the U.S. Southwest*. U.S. NOAA. (Virtual). October 20, 2021.
- 2021 Roundtable Participant, “Extreme Heat and Climate Justice.” *The Association of Collegiate Schools of Planning 2021 Annual Conference*. (Virtual). The Association of Collegiate Schools of Planning. October 7, 2021.
- 2021 Presenter, “Planning for Urban Heat Resilience.” *SGDE Colloquium Series*. University of Arizona, School of Geography, Development and Environment, Tucson, Arizona. (Virtual). September 24, 2021.
- 2021 Presenter, “Keeping Homes and Cities Cool: Heat Governance.” *Arizona Senior Academy*. Academy Village. Vail, Arizona. September 8, 2021.
- 2021 Moderator, “Creating Cooler Homes and Schools.” *Climate Adaptation Research Symposium 2021*. UCLA Luskin Center for Innovation. Los Angeles, California. (Virtual). September 8, 2021.
- 2021 Panelist, “Urban Heat Resilience.” *Wonder at Home*. University of Arizona Foundation, Tucson, Arizona. (Virtual). July 22, 2021.
- 2021 Panelist, “Addressing Climate Risk through Equitable Community Development.” Federal Reserve Bank of San Francisco. San Francisco, California. (Virtual). July 21, 2021.
- 2021 Presenter, “Extreme Heat at Outdoor COVID-19 Vaccination Sites.” *Restruct Virtual Symposium*. University of Arizona. Tucson, Arizona. (Virtual). May 17, 2021.
- 2021 Presenter, “Extreme Heat Network.” *Network of Networks Meeting*. American Society of Adaptation Professionals (ASAP). (Virtual). May 14, 2021.
- 2021 Presenter and Discussion Lead, “Planning for Extreme Heat, Creating Regional Extreme Heat Resilience Plans.” *2021 Carolinas Climate Resilience Conference*. U.S. NOAA Carolinas Integrated Sciences and Assessments (CISA). (Virtual). May 5, 2021.
- 2021 Co-Facilitator, “Roundtable Discussion - Climate Resilience: How Can We Get There?” *16th Annual Trends Days*. Urban Land Institute – Arizona. (Virtual). April 22, 2021.
- 2021 Presenter, “Extreme Heat at Outdoor COVID-19 Vaccination Sites.” *State of Arizona Extreme Heat Planning Webinar*. Arizona Department of Health Services, National Weather Service, and Arizona State University. (Virtual). April 19, 2021.

- 2021 Presenter, “Advancing the Theory and Practice of Urban Heat Resilience: Data and Information Needs.” *Restruct Workshop*. University of Arizona, Tucson, Arizona. (Virtual). February 25, 2021.
- 2020 Panelist, “ASAP Job Seekers Professional Development.” *ASAP Virtual Network Meeting*. American Society of Adaptation Professionals (ASAP). (Virtual). October 27, 2020.
- 2020 Presenter, “Land use, energy, buildings, and climate.” *Climate Change: Why accepting and responding to it matters to all of us*. Sierra Evangelical Lutheran Church. Sierra Vista, Arizona. (Virtual). September 30, 2020.
- 2020 Presenter, “Sustainable Design, Resilient Cities: The Inequities of Urban Heat.” *Planet Now! Conversations in Environmental Studies*. Rice University Center for Environmental Studies. Houston, Texas. (Virtual). September 28, 2020.
- 2020 Panelist, “APA-AZ Mentoring session.” *American Planning Association, Arizona Chapter Conference*. Buckeye, Arizona. (Virtual). September 11, 2020.
- 2020 Presenter, “Increasing Resilience to the Urban Heat Island.” *SHADE 2020: Southwest Horticulture Annual Day of Education*. Arizona Nursery Association. Tempe, Arizona. (Virtual). September 4, 2020.
- 2020 Panelist, “Where We Live and Work Panel.” *Arizona Thrives*. The Nature Conservancy. Phoenix, Arizona. (Virtual). September 2, 2020.
- 2020 Presenter with Alison Meadow, “Mitigating the Urban Heat Island.” *29th Annual Desert Horticulture Conference*. University of Arizona. Tucson, Arizona. (Virtual). May 29 – June 4, 2020.
- 2020 Panelist, “Lessons learned in the Southwest.” *Southwest Practitioners Adaptation Network*. University of Nevada, Las Vegas. Las Vegas, Nevada. February 7, 2020.
- 2019 Presenter, “Climate justice and planning for extreme heat.” *Restruct Built Environment Research Symposium*. University of Arizona. Tucson, Arizona. December 12, 2019.
- 2019 Presenter, “Developing climate action plans: What to consider and where to start.” *Climate 2020: Seven Generations for Arizona*, Northern Arizona University. Flagstaff, Arizona. November 16, 2019.
- 2019 Presenter, “Heat mitigation through green infrastructure.” *Water Resource Research Center – Brownbag*. University of Arizona. Tucson, Arizona. November 11, 2019.

- 2019 Moderator and discussant, “Podcast, cli-fi, and science storytelling for climate action in the built environment.” *TENWEST Impact Festival*. Tucson, Arizona. October 18, 2019.
- 2019 Moderator, “Planning for resilience in the face of climate change and changing rainfall patterns.” *American Planning Association, Arizona Chapter Conference*. Oro Valley, Arizona. September 11, 2019.
- 2019 Panelist, “Panel of social science, arts and humanities scholars.” *National Science Foundation – CURES Connections Workshop: New Voices and Paths to Urban Sustainability*. University of Illinois at Chicago. Chicago, Illinois. August 7-8, 2019.
- 2019 Workshop Participant. *National Science Foundation - Practitioner Led Urban Sustainability Symposium*. University of Michigan. Ann Arbor, Michigan. July 7-10, 2019.
- 2019 Presenter, “Planning for urban heat – Lessons from the U.S. Southwest.” *Urban Design Forum - Fellows Program, Turning the Heat*. New York City Mayor’s Office of Resiliency. New York, New York (Virtual). June 28, 2019.
- 2019 Presenter, “Climate action student engagement.” *University Climate Change Coalition (UC3)*, University of Arizona. Tucson, Arizona. May 23, 2019.
- 2019 Presenter, “Future-proofing your returns: Climate risk and your bottom line.” Urban Land Institute – Arizona. Phoenix, Arizona. April 25, 2019.
- 2019 Presenter and Facilitator, “Heat data for urban planning.” *State of Arizona Extreme Heat Planning Workshop*. Arizona Department of Health Services, National Weather Service, and Arizona State University. Phoenix, Arizona. April 8, 2019.
- 2019 Presenter, “Community planning for climate action.” *AMS 99th Annual Meeting - Sustainable Cities Network of Arizona Roundtable Event*. American Meteorological Society (AMS). Phoenix, Arizona. January 10, 2019.
- 2019 Panelist, “Emerging needs, opportunities, and careers in climate information services: Key sector perspectives.” *AMS 99th Annual Meeting - Seventh Symposium on Weather, Water, and Climate Enterprise*. American Meteorological Society (AMS). Phoenix, Arizona. January 5, 2019.
- 2018 Panelist, “State of practice: The built environment in the Southwest.” *SWAF*. American Society of Adaptation Professionals (ASAP), Southwest Adaptation Forum (SWAF), and University of Arizona. Tucson, Arizona. October 30, 2018.

- 2018 Presenter, "Evaluating the use of urban heat maps in planning." *Urban Resilience Lightning Talks and Networking Hour*. University of Arizona, Center for Climate Adaptation Science and Solutions (CCASS). Tucson, Arizona. October 5, 2018.
- 2018 Panelist, "Cities and communities: Can Tucson survive peak drought and warming?" *Surviving Peak Drought and Warming Workshop*. University of Arizona. Tucson, Arizona. March 29, 2018.
- 2017 Presenter, "Evaluating the use of urban heat island and heat increase modelling in land use planning and decision-making." *CLIMAS Colloquium Series*. University of Arizona, Climate Assessment for the Southwest (CLIMAS). Tucson, Arizona. September 29, 2017.
- 2017 Presenter, "Planning for climate mitigation and resilience for cities in the U.S. Southwest." *Southwest Tribal Climate Change Network Call*. University of Arizona, Native Nations Climate Change Adaptation Program. Tucson, Arizona (Virtual). July 12, 2017.
- 2017 Presenter, "CLIMAS 5-year assessment update." *Monthly RISA Call*. U.S. NOAA, Regional Integrated Sciences and Assessments (RISA) Program. (Virtual) July 6, 2017.
- 2016 Panelist, "Influence of politics on planning." *Brownbag Panel*. American Planning Association, Arizona Chapter - Southern Section. Tucson, Arizona. October 21, 2016.
- 2014 Panelist, "The curriculum: Perspectives in building sustainability literacy into coursework." *Arizona Higher Education Sustainability Conference*. University of Arizona. Tucson, Arizona. March 25, 2014.
- 2013 Moderator, "Where do I fit into planning?" *Brownbag Panel*. American Planning Association, Arizona Chapter - Southern Section. Tucson, Arizona. March 21, 2013.
- 2012 Moderator, "Smarter cities: Technology as a tool in real estate development and urban design." *ULI Fall Meeting*. Urban Land Institute (ULI). Denver, Colorado. October 17, 2012.
- 2012 Panelist, "Careers in sustainability." University of Arizona, Career Services. Tucson, Arizona. February 23, 2012.
- 2011 Moderator, "Your first day as a planning commissioner." *American Planning Association, Arizona Chapter Conference*. American Planning Association, Arizona Chapter. Tucson, Arizona. September 28, 2011.
- 2010 Presenter, "Creating true community dialogue." *American Planning Association*,

Arizona Chapter Conference. American Planning Association, Arizona Chapter. Phoenix, Arizona. November 4, 2010.

Papers Presented

Presented, *Student advisee

- 2025 Heris, Mehdi Poupeikari (Moderator), Dana Habeeb, Sara Meerow, C.J. Gabbe, and Ladd Keith. “Roundtable: Urban Heat Mitigation and Management from a Planning Perspective.” *The Association of Collegiate Schools of Planning 2025 Annual Conference.* The Association of Collegiate Schools of Planning. Minneapolis, Minnesota. October 25, 2025.
- 2025 Keith, Ladd, Sara Meerow, Malini Roy, Shaylynn Trego, and Saeideh Sobhaninia. “Integrating three plan evaluation approaches for coordinated heat resilience across Arizona.” *The Association of Collegiate Schools of Planning 2025 Annual Conference.* The Association of Collegiate Schools of Planning. Minneapolis, Minnesota. October 24, 2025.
- 2025 Keith, Ladd, Sara Meerow, Malini Roy, Saeideh Sobhaninia, and Shaylynn Trego*. “Integrating three plan evaluation approaches for coordinated heat resilience across Arizona.” *NSF NCAR Research Symposium: Human and Geographic Dimensions of Extreme Heat and Heat Risk.* Boulder, Colorado. June 24, 2025.
- 2025 Arora, Mona, Fatima Luna, **Ladd Keith,** Julie Robinson, Imran Mithu, and Malini Roy. “Enhancing Heat Resilience in Southern Arizona through Codesign and Academic Public Health Partnerships.” *AMS 2025.* American Meteorological Society. New Orleans, Louisiana. January 12-16, 2025.
- 2024 Lamer, Katia, Enrique R. Vivoni, Kristina M. Currans, Matei Georgescu, **Ladd Keith,** Joshua R. New, Parag Joshi, Edwin Davis, Fengqi Li, Malini Roy, Zackary Mages, Francisco Salamanca, Eli R. Perez-Ruiz, Alamin Molla, Xiangmin Sun, Melissa R. Allen Dumas, Jean Andino, and David Sailor. “Numerical Modelers, Resilience Solution Experts and Observationalists Came Together to Design Urban Field Experiments Focused on Extreme Heat and Related Hazards.” *AGU24.* American Geophysical Union. Washington, D.C. December 9-13, 2024.
- 2024 Roy, Malini, **Ladd Keith,** and Sara Meerow. “Climate Action Planning Evaluation: An Integrated Approach.” *The Association of Collegiate Schools of Planning 2024 Annual Conference.* The Association of Collegiate Schools of Planning. Seattle, Washington. November 7-9, 2024.
- 2024 Keith, Ladd, Sara Meerow, Malini Roy, Shaylynn Trego*, and Saeideh Sobhaninia. “Integrating Three Plan Evaluation Approaches for Heat Resilience Planning.” (Poster). *2024 Urban Integrated Field Laboratory (UIFL) Principal Investigator’s Meeting.* U.S. Department of Energy, Earth and Environmental

Systems Sciences Division. Rockville, Maryland. October 28-29, 2024.

- 2024 Roy, Malini, Lauren Quigley, **Ladd Keith**, and Sara Meerow. "Large Language Models and Plan Evaluation for Heat Resilience: Exploring Opportunities and Navigating Challenges." (Poster). *2024 Urban Integrated Field Laboratory (UIFL) Principal Investigator's Meeting*. U.S. Department of Energy, Earth and Environmental Systems Sciences Division. Rockville, Maryland. October 28-29, 2024.
- 2024 Joshi, Parag, Katia Lamer, Edwin V. Davis, Zackary Mages, Enrique Vivoni, David Sailor, Matei Georgescu, Kristina Currans, Malini Roy, Kirsten Lake, Patricia Solis, **Ladd Keith**, Shannon Zweig, Eli Martin, Cole Trapani, and Paul Phillipsberg. "The CMAS mobile observatories reveal new information about Phoenix's urban dome and Tucson's hot spots." (Poster). *2024 Urban Integrated Field Laboratory (UIFL) Principal Investigator's Meeting*. U.S. Department of Energy, Earth and Environmental Systems Sciences Division. Rockville, Maryland. October 28-29, 2024.
- 2024 Furlong, Melissa, Honghyok Kim, Chris Lim, Paloma Beamer, **Ladd Keith**, Yiwen Liu, Joseph Hoover, Mona Arora, and Kacey Ernst. "Preconception, Prenatal, and early infancy exposures to extreme temperature and Attention Deficit Hyperactivity Disorder (ADHD) in childhood." *36th Annual Conference of the International Society for Environmental Epidemiology*. International Society for Environmental Epidemiology. Santiago, Chile. August 25-28, 2024.
- 2024 Hoover, Joseph, Mona Arora, Dean Billheimer, Paloma Beamer, Melissa Furlong, **Ladd Keith**, Shujuan Li, Chris Lim, Yiwen Liu, Cristian Roman Palacios, Mackenzie Waller, Huaqing Wang, and Kacey Ernst. "Launching the Southwest Center on Resilience for Climate Change and Health." *36th Annual Conference of the International Society for Environmental Epidemiology*. International Society for Environmental Epidemiology. Santiago, Chile. August 25-28, 2024.
- 2023 **Keith, Ladd**, Sara Meerow, Lauren Jensen*, Shaylynn Trego*, Erika Schmidt*, and Philip Berke. "Evaluating Urban Heat Mitigation Across Networks of Plans." *The Association of Collegiate Schools of Planning 2023 Annual Conference*. The Association of Collegiate Schools of Planning. Chicago, Illinois. October 19-21, 2023.
- 2023 Trego, Shaylynn*, Sara Meerow, **Ladd Keith**, and Erika Schmidt*. "Science-Policy Co-production of Heat Planning Knowledge in Kent, Washington." *The Association of Collegiate Schools of Planning 2023 Annual Conference*. The Association of Collegiate Schools of Planning. Chicago, Illinois. October 19-21, 2023.
- 2023 Trego, Shaylynn* (Moderator), **Ladd Keith**, Xiaojiang Li, C.J. Gabbe, and Theodore Lim. "Roundtable: Planning for Extreme Heat: A Conversation on

- Urban Heat Adaptation, Governance, and Equity.” *The Association of Collegiate Schools of Planning 2023 Annual Conference*. The Association of Collegiate Schools of Planning. Chicago, Illinois. October 19-21, 2023.
- 2023 Whittington, Jan (Moderator), Damian Pitt, Steven Richter, Kian Goh, **Ladd Keith**, and Nkhil Kaza. “Workshop: Building University Capacity for Transformative Climate Research and Teaching.” *The Association of Collegiate Schools of Planning 2023 Annual Conference*. The Association of Collegiate Schools of Planning. Chicago, Illinois. October 19-21, 2023.
- 2023 Shi, Linda (Moderator), Caitlin Dyckman, **Ladd Keith**, Jan Wittington, Ivis Garcia, and Nikhil Kaza. “Workshop: Climate Change Task Force: Mobilizing ACSP for Transformative National Climate Research Agenda.” *The Association of Collegiate Schools of Planning 2023 Annual Conference*. The Association of Collegiate Schools of Planning. Chicago, Illinois. October 19-21, 2023.
- 2023 **Keith, Ladd**, Sara Meerow, Malini Roy, Shaylynn Trego*, Erika Schmidt*, Jack Haskins*, and Bryan Leyba*. “Plan Evaluation for Heat Resilience.” (Poster). *2023 Urban Integrated Field Laboratory (IFL) PI Meeting*. U.S. Department of Energy, Earth and Environmental Systems Sciences Division. Rockville, Maryland. September 27-28, 2023.
- 2023 **Keith, Ladd** (Panelist). “Plenary Session – Community Engagement and Co-Design.” *2023 Urban Integrated Field Laboratory (IFL) PI Meeting*. U.S. Department of Energy, Earth and Environmental Systems Sciences Division. Rockville, Maryland. September 27-28, 2023.
- 2023 Avila, Ashley*, Nicole Iroz-Elardo, **Ladd Keith**, and Kristina M. Currans. “The Effect of Vehicles on Personal Heat Exposure.” (Poster). *Annual Meeting of the Transportation Review Board*. Transportation Review Board. Washington, D.C. January 9, 2023.
- 2023 Heath, Lauren*, Nicole Iroz-Elardo, **Ladd Keith**, and Kristina M. Currans. “Urban Heat Mitigation Techniques in Transportation Planning: A Look at the Literature.” (Poster). *Annual Meeting of the Transportation Review Board*. Transportation Review Board. Washington, D.C. January 9, 2023.
- 2022 Meerow, Sara, **Ladd Keith**, Shaylynn Trego, Erika Schmidt, Lauren Jensen, Stephanie Smith, Philip Berke, and Joseph DeAngelis. “The Plan Integration for Resilience Scorecard for Heat.” (Abstract accepted but not presented). *The Association of Collegiate Schools of Planning 2022 Annual Conference*. The Association of Collegiate Schools of Planning. Toronto, Canada. November 5, 2022.
- 2022 Logan, Kathryn G., **Ladd Keith**, Neha Gupta, Amanda J. Leinberger*, Rebecca Shelton, and Katharine L. Jacobs. “Integrating energy justice with community

- climate action planning.” *EGU General Assembly 2022*. European Geosciences Union (EGU). Vienna, Austria. May 26, 2022.
- 2022 Avila, Ashley*, Nicole Iroz-Elardo, **Ladd Keith**, and Kristina Currans. “The Effect of Vehicles on Personal Heat Exposure: A Pilot Study.” (Poster). *Annual Meeting of the Transportation Review Board*. Transportation Review Board. Washington, D.C. January 11, 2022.
- 2021 **Keith, Ladd**, C.J. Gabbe, and Erika Lynn Schmidt*. “Framing urban heat governance through five case studies.” *The Association of Collegiate Schools of Planning 2021 Annual Conference*. The Association of Collegiate Schools of Planning. (Virtual). October 7, 2021.
- 2021 **Keith, Ladd** and Sara Meerow. “Planning for Extreme Heat in U.S. Cities.” *18th Annual Climate Prediction Applications Science Workshop*. U.S. NOAA National Weather Service Climate Services Division. (Virtual). April 21, 2021.
- 2021 Wilkening, Betsy and **Ladd Keith**. “Extreme Heat Phenomenon: A Hot Topic for Teaching and Communicating.” (Poster). *18th Annual Climate Prediction Applications Science Workshop*. U.S. NOAA National Weather Service Climate Services Division. (Virtual). April 21, 2021.
- 2021 Sami, Ida* and **Ladd Keith**. “Increasing Heat Resilience Through Thermal Comfort Assessment in Sun Link Streetcar Stops, Tucson AZ.” (Poster). *18th Annual Climate Prediction Applications Science Workshop*. U.S. NOAA National Weather Service Climate Services Division. (Virtual). April 21, 2021.
- 2021 Jones, Hunter, **Ladd Keith**, Sara Meerow, and V. Kelly Turner. “Advancing Urban Heat Resilience.” *NCSE Drawdown 2021 Conference*. National Council for Science and the Environment (NCSE) and Project Drawdown. (Virtual). January 4-9, 2021.
- 2020 **Keith, Ladd**, Ben McMahan, and Tess Wagner*. “Evaluating the Use of Urban Heat Island Maps for Extreme Heat Planning.” *Association of Collegiate Schools of Planning 2020 Annual Conference*. (Virtual). Association of Collegiate Schools of Planning. November 5-8, 2020.
- 2020 Iroz-Elardo, Nicole and **Ladd Keith**. “Synthesis of Climate-adaptive Design in Outdoor Physical Activity Spaces for Health Equity.” *The Association of Collegiate Schools of Planning 2020 Annual Conference*. (Virtual). The Association of Collegiate Schools of Planning. November 5-8, 2020.
- 2020 **Keith, Ladd**, Sara Meerow, and Tess Wagner*. “Planning for Extreme Heat: A Review.” *Climate Adaptation Research Symposium 2020: Measuring and Addressing Societal Impacts*. UCLA Luskin Center for Innovation. Los Angeles, California. (Virtual). September 21, 2020.

- 2020 Meerow, Sara and **Ladd Keith**. “Planning for Resilience to Extreme Heat in U.S. Cities.” *Climate Adaptation Research Symposium 2020: Measuring and Addressing Societal Impacts*. UCLA Luskin Center for Innovation. Los Angeles, California. (Virtual). September 21, 2020.
- 2020 **Keith, Ladd** and Sara Meerow. “Planning for extreme heat in U.S. cities.” *18th Annual Climate Prediction Applications Science Workshop*. U.S. NOAA National Weather Service Climate Services Division. April 15, 2020. (Postponed due to COVID-19)
- 2020 Wilkening, Betsy and **Ladd Keith**. “Extreme heat phenomenon: A hot topic for teaching and communicating.” (Poster). *18th Annual Climate Prediction Applications Science Workshop*. U.S. NOAA National Weather Service Climate Services Division. April 14, 2020. (Postponed due to COVID-19)
- 2020 Sami, Ida* and **Ladd Keith**. “Design for evaluating thermal comfort along multi-modal Oracle Road corridor in Tucson, Arizona.” (Poster). *18th Annual Climate Prediction Applications Science Workshop*. U.S. NOAA National Weather Service Climate Services Division. April 14, 2020. (Postponed due to COVID-19)
- 2020 Kirk Dimond, Nicole Iroz-Elardo, **Ladd Keith**, Betsy Wilkening, Ida Sami*, Penelope Cottrell Crawford*, and Tess Wagner*. “Thermal Comparisons of Microclimates of Photovoltaic Arrays and Green Infrastructure in Schools and Parks.” *Environmental Design Research Association*. April 5, 2020.
- 2020 Iroz-Elardo, Nicole and **Ladd Keith**. “Heat and healthy habits: supporting physical activity in an era of increased extreme heat risk.” *2020 Active Living Conference*. Active Living Research. Orlando, Florida. February 5, 2020.
- 2020 Sami, Ida* and **Ladd Keith**. “Thermal comfort assessment of multimodal corridors in Tucson, Arizona to increase heat resilience.” (Poster). *AMS 100th Annual Meeting – 15th Symposium on the Urban Environment*. American Meteorological Society (AMS). Boston, Massachusetts. January 15, 2020.
- 2019 Austhof, Erika, Vjollca Berisha, Ben McMahan, Gigi Owen, Matthew Roach, **Ladd Keith**, and Heidi E. Brown. “Engaging public health stakeholders in climate change adaptation: Lessons learned from Maricopa County, AZ and the Climate Assessment for the Southwest.” *Fall Meeting 2019*. American Geophysical Union. San Francisco, California. December 13, 2019.
- 2019 Wilkening, Betsy and **Ladd Keith**. “Phenomenon: A hot topic for teaching and communicating science.” (Poster) *Fall Meeting 2019*. American Geophysical Union. San Francisco, California. December 9, 2019.

TEACHING

Ladd Keith, Ph.D.

Current Courses

Climate Action Planning - PLG 408/508 (2021-Present)

Public Participation & Dispute Resolution - PLG 497Q/597Q (2014, 2017-Present)

Past Courses

Honors College First Year Seminar - HNRS 195H (2012-2013)

Introduction to Regional Planning - PLG 301 (2009-2013)

Planning for Urban Resilience - PLG 408/508 (2018-2020)

Planning Theory - PLG 605 (2013)

Planning Theory and Practice - PLG 401A/501A (2021)

Planning Internship & Career Development Seminars - PLG 696A/B (2013-2015)

Professional Communication & Presentation - SBE 202 (2013-2016)

Professional Internship Seminar - SBE 393 (2013-2016)

Senior Capstone - SBE 498 (2014-2015)

Sustainable Design & Planning - SBE 201 (2013-2015)

Sustainable Development & New Urbanism - PLG 497S/597S (2012, 2014)

STUDENT MENTORSHIP & SUPERVISION

Doctoral Students

Mahin Mehnaz, Ph.D. in Arid Lands Resource Sciences. (2025-Present). Committee Chair

Elise Otto, Ph.D. in Geography. (2024-Present). Committee Member

Ivan Gaxiola, Ph.D. in Arid Lands Resource Sciences. (2023-2026, Completed Masters).
Committee Member

Shaylynn Trego, Ph.D. in Geography at Arizona State University. (2022-Present). Committee
Member

Amanda Leinberger, Ph.D. in Natural Resources. (2020-Present). Committee Member

Ladd Keith, Ph.D.

Ida Sami, Ph.D. in Arid Lands Resource Sciences. (2018-Defended 2022). Committee Chair

Joseph Iuliano, Ph.D. in Geography. (2015-Defended 2021). Committee Co-Chair

Graduate Students

Savannah Blide, M.S. in Urban Planning. (2025-Present). Supervised as Graduate Research Assistant.

Alekzander Ryan, B.S. in Sustainable Built Environments and Accelerated Masters Program into M.S. in Urban Planning. (2024-Present). Supervised as Graduate Research Assistant.

Marci Caballero-Reynolds, M.S. in Urban Planning. (2024-Present). Supervised as Graduate Research Assistant.

Aaron Bouschor, M.S. in Urban Planning. (2024-2025). Supervised as Graduate Research Assistant.

Annika Risser, M.S. in Urban Planning. (2024-2025). Supervised as Graduate Research Assistant.

Lyndsey Jordan. M.S. in Urban Planning and Master in Business Administration. (2023-2024). Supervised as Graduate Research Assistant.

Bahati Brian Oonga. M.S. in Urban Planning. (2023). Supervised as Graduate Research Assistant.

Erika Lynn Schmidt. Master of Architecture. (2020-2023). Supervised as Graduate Research Assistant

Veronique Arguello. M.S. in Urban Planning. (2021-2022). Supervised as Indigenous Food Energy and Water Security and Sovereignty (Indige-FEWSS) Trainee

Lauren Heath. M.S. in Urban Planning (2021-2023). Supervised as Graduate Research Assistant.

Ethan C. Wissler. Master of Landscape Architecture and M.S. in Urban Planning. (2021-2022). Supervised as Roots for Resilience in Data Science Fellowship

Hunter Lohse. Master of Landscape Architecture. (2021-2022). Supervised as Peace Corps Coverdell Fellow

James L. Cunningham. M.A. in Geography. (2020). Committee Member

Mark Alexander Grantham Kissinger. Master of Public Health. (2020). Internship Committee Member

Ladd Keith, Ph.D.

Tess Wagner. Master of Landscape Architecture. (2020). Supervised as Graduate Research Assistant

Amy Webb. Master of Landscape Architecture. (2018). Supervised as Graduate Teaching Assistant

Amanda Maass. M.S. in Planning. (2017). Supervised as Graduate Research Assistant

Brianna Addotta. M.S. in Planning. (2016). Supervised as Graduate Teaching Assistant

Joseph Iuliano. M.S. in Planning. (2015). Supervised as Graduate Teaching Assistant

Robert Busick. M.S. in Planning. (2015). Supervised as Graduate Teaching Assistant

Sally Harris. M.S. in Planning. (2014). Supervised as Graduate Teaching Assistant

Undergraduate Students

America Blackketter. B.S. in Sustainable Built Environments. (2025) Co-supervised as Udall Center's Mo's Policy Scholars Fellow.

Brooke Dorothy Aijala. B.S. in Environmental Science. (2025) Co-supervised as Udall Center's Mo's Policy Scholars Fellow.

Alekzander Ryan. B.S. in Sustainable Built Environments and Accelerated Masters Program into M.S. in Urban Planning. (2024). Supervised as Udall Center's Mo's Policy Scholars Fellow.

Ashley Avila. B.S. in Sustainable Built Environments. (2021-2024). Supervised as Undergraduate Research Assistant

Andrew Pongratz, B.A. in Philosophy, Politics, Economics, and Law (PPEL). (2023). Supervised as Udall Center's Mo's Policy Scholars Fellow.

Jack Haskins. Dual B.A. in Philosophy, Politics, Economics, and Law and B.A. in Dance. (2022-2023). Honors Thesis Supervisor

Walker Norris. B.A. in Business (Sustainability) at Arizona State University. (2021). Honors Thesis Committee Member

Tyler Louis Wardell. B.S. in Sustainable Built Environments. (2020). Senior Capstone Mentor

SERVICE AND OUTREACH

Professional Memberships

Ladd Keith, Ph.D.

2020-Present American Society of Adaptation Professionals (ASAP)

2009-Present Association of Collegiate Schools of Planning (ACSP)

2005-Present Urban Land Institute (ULI), Full Member

2003-Present American Planning Association (APA)

Journal Editor Activity

2022-20203 Guest Editor, Special Issue of *Urban Climate* on “Climate change impacts on public health and lives and strategies for resilient and liveable cities.”

Journal Review Activity

AGU Advances (2022), *Cities & Health* (2025), *Climate & Development* (2025), *Earth's Future* (2025), *Environmental Health Perspectives* (2021, 2022), *Environmental Science & Technology* (2021), *International Journal of Disaster Risk Reduction* (2019), *Journal of Climate Change and Health* (2021, 2025), *Journal of Environmental Policy & Planning* (2022), *Journal of Planning Practice & Research* (2019, 2025), *Journal of the American Planning Association* (2020), *Journal of Planning Literature* (2020, 2021, 2022, 2024), *Landscape and Urban Planning* (2022, 2024), *Natural Hazards* (2021), *Nature Communications* (2022, 2023, 2024), *npj Urban Sustainability* (2023), *Oxford Open Climate Change* (2021), *PNAS Nexus* (2022), *Sustainable Production and Consumption* (2020), *Urban Ecosystems* (2022), *Urban Climate* (2022, 2023)

Grant Review Activity

2022 National Science Foundation (NSF)

National and International Service

2024-Present Co-Chair, Committee on Climate Action, Association of Collegiate Schools of Planning (ACSP).

2022-Present Member, Management Committee. Global Heat Health Information Network (GHHIN).

2024 Member, Committee on Climate Action, Association of Collegiate Schools of Planning (ACSP).

2023-2024 Member, Task Force on Climate Action, Association of Collegiate Schools of Planning (ACSP).

2023 Organizer and Host, Global Heat Health Information Network (GHHIN) Management Committee Meeting and Inaugural Open Forum at the University of Arizona DC Center. Washington, D.C. February 26 – March 3, 2023.

Ladd Keith, Ph.D.

- 2018-2020 Member, Advisory Team. Southwest Practitioners Adaptation Network (SPAN).
- 2020 Lead Workshop Organizer, Advancing the Theory and Practice of Urban Heat Resilience. Aspen Global Change Institute. October 19-20, 2020.
- 2020 Chair, Advisory Service Panel. Climate Resilience for Dallas, TX. Sponsored by City of Dallas. Urban Land Institute. August 10-12, 2020.
- 2020 Lead, Urban Dialogue and Masterclass and Member, Planning Team. Virtual Heat Health Forum 2020. Global Heat Health Information Network (GHHIN).
- 2019 Chair, Advisory Service Panel. Urban waterfront resilience for Miami, FL. Sponsored by City of Miami and Miami Downtown Authority. Urban Land Institute. June 2-7, 2019.
- 2018 Member, Advisory Team. American Society of Adaptation Professionals – Southwest Adaptation Forum (SWAF).
- 2018 Chair, Advisory Service Panel. Leveraging transit for economic development for Jacksonville, FL. Sponsored by Jacksonville Transportation Authority. Urban Land Institute. June 17-22, 2018.
- 2014-2017 Founding Advisory Board Member, Center for Sustainability, Urban Land Institute.
- 2012-2017 Council Member, Sustainable Development Council. Urban Land Institute.
- 2016 Vice Chair, Advisory Service Panel. Resilient active transportation system for El Paso, TX. Sponsored by City of El Paso, El Paso Metropolitan Planning Organization, County of El Paso, and Borderplex Alliance. Urban Land Institute. November 13-18, 2016.
- 2015 Panel Member, Advisory Service Panel. Resilience for St. Tammany Parish, LA. Sponsored by St. Tammany Parish and Greater New Orleans, Inc. Urban Land Institute. December 6-11, 2015.
- 2012 Guest, Sustainable Development Council. Spring Meeting, Urban Land Institute.
- 2011 Guest, Community Development Council - Silver Flight. Fall Meeting, Urban Land Institute.
- 2011 Guest, Small Scale Development Council - Gold Flight. Spring Meeting, Urban Land Institute.

State and Local Service

2022-Present	Member, Arizona Heat Resilience Steering Committee.
2025	Appointed Member, Arizona Governor Katie Hobbs' Workplace Heat Safety Task Force, State of Arizona.
2014-2024	Academic Liaison, Board of Directors. American Planning Association, Arizona Chapter.
2024	Member, Planning Committee. 8th Annual Arizona Extreme Heat Planning Workshop. National Weather Service, Arizona Department of Health Services, Arizona State University and University of Arizona.
2023	Member, Planning Committee. 7th Annual Arizona Extreme Heat Planning Workshop. National Weather Service, Arizona Department of Health Services, Arizona State University and University of Arizona.
2022	Member, Planning Committee. 6th Annual Arizona Extreme Heat Planning Workshop. National Weather Service, Arizona Department of Health Services, Arizona State University and University of Arizona.
2019	Member, 2019 State Conference Committee. American Planning Association, Arizona Chapter.
2011-2019	Planning Commissioner, City of Tucson Planning Commission.
2013-2015	Member, Infill Development District Subcommittee, City of Tucson Planning Commission.
2013-2014	Chair, City of Tucson Planning Commission.
2012-2013	Chair, Urban Land Institute – Southern Arizona.
2012-2013	Member, Advisory Board. Urban Land Institute – Arizona.
2011	Member, Public Policy Committee. Metropolitan Pima Alliance.
2010-2011	Member, Conference Committee. American Planning Association, Arizona Chapter.
2005-2011	Founding Member and Co-Chair, Young Leaders Group. Urban Land Institute – Southern Arizona.
2009-2010	Member, Events Committee. Metropolitan Pima Alliance.
2007-2008	Board Member & Community Facilitator, Cochise County Envision 2020.

University and Departmental Service

2023-Present	Member, Southwest Environmental Health Sciences Center (SWEHSC), College of Pharmacy.
2021-Present	Member, Executive Committee, Arid Lands Resource Science (ALRS), Graduate Interdisciplinary Program (GIDP).
2018-Present	Member, Advisory Team. Center for Climate Change Adaptation Science and Solutions (CCASS).
2025-2026	Member, Environment and Health Working Group, Office of Research and Partnerships.
2023-2025	Elected Representative, Constitution and Bylaws Committee (C+B), College of Architecture, Planning, and Landscape Architecture.
2019-2024	Lead, UA Extreme Heat Network.
2012-2024	Faculty Advisor, Graduate Planning Society.
2023	Member, Sustainability & Climate Action Plan Advisory Team, University of Arizona.
2021-2023	Elected Representative, Council of Faculty Members (CFM), College of Architecture, Planning, and Landscape Architecture.
2023	Member, Dean Nancy Pollock-Ellwand's 5-Year Review Committee. College of Architecture, Planning, and Landscape Architecture.
2022	Organizer and Host, Admiral Rachel L. Levine, U.S. Assistant Secretary for Health at the U.S. Department of Health and Human Services (HHS) full day engagement with the University of Arizona and Tucson community on December 8, 2022.
2020-2021	Member, AZ Online Faculty Advisory Committee, Arizona Online.
2020-2021	Teaching Scholar, Biosphere 2 Innovative Faculty Teaching Fellows, Biosphere 2.
2020	UC3 (University Climate Change Coalition) Mentor, Arizona Institutes for Resilience.
2020	Member, Critical Incident Response Committee (CIRC), College of Architecture, Planning, and Landscape Architecture.

2019-2020	Member, Instructional Designer Search Committee. College of Architecture, Planning, and Landscape Architecture.
2019	Member, Marketing and Communications Manager Search Committee. College of Architecture, Planning, and Landscape Architecture.
2019	Member, Building a Changing World Pillar Committee. University Strategic Plan.
2018-2019	Member, Strategic Planning and Operations Advisory Committee. College of Architecture, Planning, and Landscape Architecture.
2018	Member, Instructional Designer Search Committee. College of Architecture, Planning, and Landscape Architecture.
2018	Member, University Strategic Plan - Sustainability Initiative Working Group.
2018	Member, Doctoral Programs Task Force. College of Architecture, Planning, and Landscape Architecture.
2017	Member, Recruitment Coordinator Search Committee. College of Architecture, Planning, and Landscape Architecture.
2016-2017	Member, Dean Search Committee. College of Architecture, Planning, and Landscape Architecture.
2016-2017	Member, Assistant Professor of Architecture and Sustainable Built Environments Search Committee. College of Architecture, Planning, and Landscape Architecture.
2016	Chair, Instructional Designer Search Committee. College of Architecture, Planning, and Landscape Architecture.
2016	Chair, Coordinator Search Committee. Sustainable Built Environments, College of Architecture, Planning, and Landscape Architecture.
2016	Chair, Student Academic Success Specialist Search Committee. Sustainable Built Environments, College of Architecture, Planning, and Landscape Architecture.
2016	Member, Office Assistant Search Committee. College of Architecture, Planning and Landscape Architecture.
2016	Judge, Grad Slam. Graduate College.
2013-2016	Planning Internship Coordinator. School of Landscape Architecture and Planning, College of Architecture, Planning and Landscape Architecture.

Ladd Keith, Ph.D.

- 2015 Chair, Student Academic Success Specialist Search Committee. Sustainable Built Environments, College of Architecture, Planning, and Landscape Architecture.
- 2015 Judge, Centennial Awards. Student Affairs.
- 2015 Judge, UA Grad Slam. Graduate College.
- 2015 Member, Director R. Brooks Jeffery's 5 Year Review Committee. Drachman Institute, College of Architecture, Planning and Landscape Architecture.
- 2015 Member, Information Technology Support Analyst Senior Search Committee. College of Architecture, Planning and Landscape Architecture.
- 2015 Faculty Co-Sponsor, Urban Land Institute Gerald D. Hines Design Competition.
- 2014 Judge, Student Showcase – Architecture, Planning, and Landscape Architecture Category. Student Affairs.
- 2013-2014 Member, Dean Janice Cervelli's 5-Year Review Committee. College of Architecture, Planning, and Landscape Architecture.
- 2013 - 2014 Faculty Advisor, Sustainable Built Environments Student Club.
- 2013 Chair, Academic Advisor Search Committee. Sustainable Built Environments, College of Architecture and Landscape Architecture.
- 2012-2013 Expert in Online Instruction, Speakers Bureau. Office of Instruction and Assessment.
- 2012-2013 Honors Professor, Honors College.
- 2012-2013 Member, Planning Accreditation Committee. School of Landscape Architecture and Planning, College of Architecture and Landscape Architecture.
- 2012 Judge, Graduate Planning Expo, School of Landscape Architecture and Planning, College of Architecture and Landscape Architecture.
- 2011 Member, Faculty Advisory Committee. College of Architecture and Landscape Architecture.

Invited Guest Lectures

RNR 440/540 Climate Change Adaptation: Perspectives at the Nexus of Science, Society, & Resource Management, University of Arizona (invited by Gregg M. Garfin). November 14, 2024.

Ladd Keith, Ph.D.

HS 331 Planetary Health, University of Richmond (invited by Jeremy Hoffman). (Virtual). September 9, 2024.

ARC 302 Design Studio IV, University of Arizona (invited by Eduardo Guerrero). January 22, 2024.

RNR 440/540 Climate Change Adaptation: Perspectives at the Nexus of Science, Society, & Resource Management, University of Arizona (invited by Gregg M. Garfin). November 16, 2023.

LAR 611 Design Studio IV, University of Arizona (invited by Kenneth Kokroko). April 14, 2023.

M.Arch Studio 790 and Seminar 660, University of Nevada, Las Vegas (invited by Steffen Lehmann). (Virtual). March 21, 2023.

PLAN 754 Natural Hazards Resilience Speaker Series, University of North Carolina at Chapel Hill (invited by Anna Schwab). (Virtual). March 21, 2023.

PLG 497S/597S Sustainable Urban Development and Design, University of Arizona (invited by Mackenzie Waller). September 26, 2022.

RNR 440/540 Climate Change Adaptation: Perspectives at the Nexus of Science, Society, & Resource Management, University of Arizona (invited by Gregg M. Garfin). September 22, 2022.

CP 8022 PhD Seminar in Research and Pedagogy, Georgia Institute of Technology (invited by Brian Stone, Jr.). (Virtual). September 16, 2022.

SBE 480/580 Research Methods, University of Arizona (invited by Philip Stoker). September 6, 2022.

CRP 5545 Urban Adaptation to Climate Change, Cornell University (invited by Linda Shi). (Virtual). March 17, 2022.

EHS 525 Global to Local: Environmental Change and Human Health, University of Arizona (invited by Mona Arora). (Virtual). February 16, 2022.

PLG 514 Methods in Urban Planning, University of Arizona (invited by Kristi Currans). December 8, 2021.

SBE 480 Research Methods, University of Arizona (invited by Philip Stoker). (Virtual). November 17, 2021.

RNR 440/540 Climate Change Adaptation: Perspectives at the Nexus of Science, Society, &

Ladd Keith, Ph.D.

Resource Management, University of Arizona (invited by Gregg M. Garfin). (Virtual). October 14, 2021.

EHS 525 Global to Local: Environmental Change and Human Health, University of Arizona (invited by Mona Arora). (Virtual). March 24, 2021.

RNR 440/540 Climate Change Adaptation: Perspectives at the Nexus of Science, Society, & Resource Management, University of Arizona (invited by Gregg M. Garfin). (Virtual). September 24, 2020.

EVST 431 The Physical Science of Climate Change, Yale University (invited by Xuhui Lee and Peter Raymond). (Virtual). April 9, 2020.

EHS 525 Global to Local: Environmental Change and Human Health, University of Arizona (invited by Mona Arora). March 4, 2020.

LAR 623 Landscape Planning Studio and PLG 580 Environmental Spatial Analysis, University of Arizona (invited by Bo Yang). February 12, 2020.

PLG 401A/501A Planning Theory and Practice, University of Arizona (invited by Andrew Sanderford). October 29, 2019.

RNR 440/540 Climate Change Adaptation: Perspectives at the Nexus of Science, Society, & Resource Management, University of Arizona (invited by Gregg M. Garfin). September 26, 2019.

LAR 522 Landscape Analysis and PLG 580 Environmental Spatial Analysis, University of Arizona (invited by Bo Yang). April 10, 2019.

PLG 256 Sustainable Cities and Societies, University of Arizona (invited by Gary Pivo). November 13, 2018.

LAR 610 Design Studio III, University of Arizona (invited by Kelly Cederberg). August 29, 2018.

PLG 256 Sustainable Cities and Societies, University of Arizona (invited by Philip Stoker). April 10, 2018.

LAR 522 Landscape Analysis and PLG 580 Environmental Spatial Analysis, University of Arizona (invited by Bo Yang). February 7, 2018.

ARC 451A Design Studio VI, University of Arizona (invited by Courtney Crosson). January 19, 2018.

PLG 256 Sustainable Cities and Societies, University of Arizona (invited by Gary Pivo). October 17, 2017.

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Judge, ARC 451A Design Studio VI, University of Arizona (invited by Courtney Crosson). May, 4, 2017.

ARC 451A Design Studio VI, University of Arizona (invited by Courtney Crosson). April 19, 2017.

PLG 497s/597s Sustainable Development and New Urbanism, University of Arizona (invited by Philip Stoker). October 10, 2016.

ARC 101 Foundation Studio, University of Arizona (invited by Annie Kurtin). September 15, 2016.

SBE 195A Introduction to Sustainability, University of Arizona (invited by Michael Esser). September 7, 2016.

GEOG 302 Introduction to Sustainable Development, University of Arizona (invited by Casey Lynch). June 1, 2016.

PLG 412/512 Comprehensive Planning and Land Use Controls, University of Arizona (invited by Arlie Adkins). February 20, 2014.

Judge, GEOG 302 Introduction to Sustainable Development, University of Arizona (invited by Linda Samuels). December 19, 2013.

Judge, PLG 515 Design Studio I, University of Arizona (invited by Oscar Blazquez). December 10, 2013.

PLG 514 Analytic Methods in Planning and Strategic Management, University of Arizona (invited by Arlie Adkins). October 3, 2013.

Online Education Project – June Intensive Workshop, Office of Instruction and Assessment, University of Arizona (invited by Susan Howell). June 3, 2013.

PLG 412/512 Comprehensive Planning and Land Use Controls, University of Arizona (invited by Iris Patten). April 19, 2012.

Teaching Online, Office of Instruction and Assessment, University of Arizona (invited by Gretchen Gibbs). March 7, 2012.

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LAR 660 Professional Practice, University of Arizona (invited by Elizabeth Scott). September 23, 2011.

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Celaya, Eddie. [“Partnership between national lab and UA tracks extreme heat at neighborhood level.”](#) *KGUN9 News*. July 2, 2024.

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Jackson, Zachary. [“University of Arizona research to tackle extreme heat challenges.”](#) *KVOA News 4*. May 22, 2024.

Miranda, Emilee. [“University of Arizona helping with new center for extreme heat.”](#) *KOLD 13 News*. May 21, 2024.

Torres, Jorge. [“New center relies on Arizona universities to help communities with extreme heat.”](#) *ABC15 Arizona*. May 20, 2024.

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Miranda, Emilee. [“July 2023 was the hottest month on record: how climate change is playing a role.”](#) *KOLD News 13*. August 14, 2023.

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