

School of Landscape Architecture and Planning
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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

- 2019-Present Assistant Professor of Planning and Sustainable Built Environments, 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)
- 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
- 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

Refereed Journal Articles

10. Chambers, Sam, Geoffrey A. Boyce, Daniel E. Martinez, Coen Bongers, and **Ladd Keith**. (In press). The contribution of physical exertion to heat-related illness and death in the Arizona borderlands. *Spatial and Spatio-temporal Epidemiology*.
9. 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>
8. 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>
7. 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>
6. 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*. <https://doi.org/10.1080/19439962.2022.2155745>
5. 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>
4. 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>
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

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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>

Editor-Reviewed Journal Article

1. **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>

Manuscripts Under Review

7. Avila, Ashley*, Nicole Iroz-Elardo, **Ladd Keith**, and Kristina M. Currans. (Under review). The Effect of Vehicular Waste Heat on Personal Heat Exposure: A Pilot Study.
6. Iuliano, Joseph E.* and **Ladd Keith**. (Revise and resubmit). Shifting Gears: A case study of bicycle planning and decision-making in Tucson, Arizona.
5. **Keith, Ladd**, Sara Meerow, Lauren Jensen*, Shaylynn Trego*, Erika Schmidt*, and Philip Berke. (Revise and resubmit). Evaluating urban heat mitigation across networks of plans.
4. Chambers, Samuel, Heidi Brown, **Ladd Keith**, and Erika Austhof. (Revise and resubmit). Application of the Geographic Human Heat Balance Equation to Public Health in the Arizona Urban Sun Corridor.
3. Jensen, Lauren*, **Ladd Keith**, Sara Meerow, Philip Berke, Erika Schmidt*, and Shaylynn Trego*. (Under review). Planning to mitigate heat in vulnerable neighborhoods: Applying the Plan Integration for Resilience Scorecard™ for Heat in Dorchester and East Boston.
1. **Keith, Ladd**, C.J. Gabbe, and Erika Schmidt*. (Revise and resubmit). Advancing Urban Heat Planning and Governance.

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

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

20. **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>
19. **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/>
18. **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/>
17. 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.
16. 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.
15. **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/>

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

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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

2. 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/>
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

External Grants

17. U.S. Department of Energy (DOE), Biological and Environmental Research Program (BER), Earth and Environmental Systems Sciences Division (EESSD). (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).
16. U.S. National Oceanic and Atmospheric Administration (NOAA), Climate Program Office (CPO), Regional Integrated Science and Assessments (RISA). (2022-2027). \$5,997,673. “Cultivating Equitable Responses to Increased Aridity in the US Southwest: The Climate Assessment for the Southwest (CLIMAS).” PI: Daniel Ferguson, Heidi E. Brown, Michael A. Crimmins, David DuBois, Travis Lane, Gigi Owen, Ben McMahan, Alison Meadow, and Connie Woodhouse; Co-I: Stephanie Russo Carroll, George Frisvold, Christina Greene, **Ladd Keith**, Hatim Geli, and Lara Prihodko.
15. City of Tucson. (2022). \$13,013. “Tucson Climate Action and Adaptation Plan” PI: Courtney Crosson, Co-I: **Ladd Keith**.
14. 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**.
13. 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.” PI: Heidi E. Brown; Co-I: **Ladd Keith**.
12. 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.
11. 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 and Joseph DeAngelis; Project Advisor: Philip Berke.
9. Robert Wood Johnson Foundation. (2020-2023) \$584,886, subaward of \$4,000. “Cool Kids, Cool Places, Cool Futures: Community-based, arts-enhanced, and youth-focused approach for equitable urban cooling and emergency management.” PI: Braden Kay; Co-I: Katja Brundiers and Paul Coseo. Research Support: **Ladd Keith**.

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8. U.S. National Oceanic and Atmospheric Administration (NOAA), A Regional Integrated Sciences and Assessments Program (RISA), Climate Assessment in the Southwest (CLIMAS). (2020-2021). \$40,000. “Urban heat and health interventions and evidence gaps.” PI: **Ladd Keith**.
5. U.S. National Oceanic and Atmospheric Administration (NOAA), Regional Integrated Sciences and Assessments (RISA), Climate Assessment in the Southwest (CLIMAS). (2018-2020). \$67,356. “Water harvesting as a mal-adaptation in respect to vector-borne diseases.” PI: Heidi E. Brown; Co-I: **Ladd Keith**.
4. U.S. National Oceanic and Atmospheric Administration (NOAA), Regional Integrated Sciences and Assessments (RISA), Climate Assessment in the Southwest (CLIMAS). (2017-2020). \$487,586. “Community climate profiles to support adaptation planning.” PI: Alison Meadow; Co-I: **Ladd Keith**, Sarah LeRoy, and Jeremy Weiss.
3. 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**.
2. U.S. National Oceanic and Atmospheric Administration (NOAA), Regional Integrated Sciences and Assessments Program (RISA), Climate Assessment in the Southwest (CLIMAS). (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.
1. U.S. National Oceanic and Atmospheric Administration (NOAA), 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**.

Internal Grants

3. 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.
2. 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, and David Hondula.
1. 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

- 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

- 2023 Co-Presenter with Sara Meerow, “Plan Integration for Resilience Scorecard™ (PIRS™) for Heat.” *2nd Annual NIHHIS 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.

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- 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.

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- 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.

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- 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.” *American Collegiate Schools of Planning 2021 Annual Conference*. (Virtual). 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.

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- 2021 Presenter, “Advancing the Theory and Practice of Urban Heat Resilience: Data and Information Needs.” *Reconstruct 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.” *Reconstruct 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.

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- 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.

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Phoenix, Arizona. November 4, 2010.

Papers Presented

Presented, *Student advisee

- 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). *American Collegiate Schools of Planning 2022 Annual Conference*. American 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.” *American Collegiate Schools of Planning 2021 Annual Conference*. American 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.” *American Collegiate Schools of Planning 2020 Annual Conference*. (Virtual). American 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.” *American Collegiate Schools of Planning 2020 Annual Conference*. (Virtual). American 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

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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

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)

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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

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

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

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

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

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

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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

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

Jack Haskins. Dual B.A. in Philosophy, Politics, Economics, and Law and B.A. in Dance. (2022-Present). 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

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 Review Activity

AGU Advances (2022), Environmental Health Perspectives (2021, 2022), Environmental Science & Technology (2021), International Journal of Disaster Risk Reduction (2019), Journal of Climate Change and Health (2021), Journal of Environmental Policy & Planning (2022), Journal of Planning Practice & Research (2019), Journal of the American Planning Association

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(2020), Journal of Planning Literature (2020, 2021, 2022), Landscape and Urban Planning (2022), Natural Hazards (2021), Nature Communications (2022, 2023), Oxford Open Climate Change (2021), PNAS Nexus (2022), Sustainable Production and Consumption (2020), Urban Ecosystems (2022), Urban Climate (2022)

Grant Review Activity

National Science Foundation (NSF) (2022)

National and International Service

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

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

2018-Present 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

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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.

2014-Present Academic Liaison, Board of Directors. American Planning Association, Arizona Chapter.

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.

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- 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, Sustainability & Climate Action Plan Advisory Team, University of Arizona.
- 2023-Present Member, Dean Nancy Pollock-Ellwand's 5-Year Review Committee. College of Architecture, Planning, and Landscape Architecture.
- 2021-Present Elected Representative, Council of Faculty Members (CFM), College of Architecture, Planning, and Landscape Architecture.
- 2021-Present Member, Executive Committee, Arid Lands Resource Science (ALRS), Graduate Interdisciplinary Program (GIDP).
- 2019-Present Lead, UA Extreme Heat Network, University of Arizona.
- 2018-Present Member, Advisory Team. Center for Climate Change Adaptation Science and Solutions (CCASS).
- 2012-Present Faculty Advisor, Graduate Planning Society.
- 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

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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.
- 2015 Chair, Student Academic Success Specialist Search Committee. Sustainable Built Environments, College of Architecture, Planning, and Landscape Architecture.
- 2015 Judge, Centennial Awards. Student Affairs.

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- 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

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.

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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, & 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.

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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.

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.

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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.

Teaching Online, Office of Instruction and Assessment, University of Arizona (invited by Gretchen Gibbs). November 2, 2011.

Teaching Online, Office of Instruction and Assessment, University of Arizona (invited by Gretchen Gibbs). October 20, 2011.

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

MEDIA

Podcasts

Tolbert, Leslie. [“Episode 357: Investigating methods for heat management in Arizona.”](#) *Arizona Public Media, Arizona Science*. March 3, 2023.

Manuzak, Stephanie. [“Front-line health care workers need protection from heat, researcher says.”](#) *Yale Climate Connections*. October 4, 2022.

Parsons, Doug. [“‘Planning for Urban Heat Resilience’ with Dr. Ladd Keith and Dr. Sara Meerow.”](#) *America Adapts: The Climate Change Podcast*. May 9, 2022.

Murphy-Darling, Gina. [“It is Getting Hot in Here – Building Resilience to Address Extreme Heat.”](#) *Mrs. Green's World*. March 7, 2022.

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