

## **Ladd Keith, Ph.D.**

School of Landscape Architecture and Planning  
College of Architecture, Planning, and Landscape Architecture  
The University of Arizona  
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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, Tucson,  
Arizona.
- 2005      **M.S. in Planning**  
School of Planning, University of Arizona, Tucson, Arizona.
- 2003      **B.A. in Media Arts and Minor in Japanese**  
School of Media Arts and Department of East Asian Studies, University of  
Arizona, Tucson, Arizona.

### **PROFESSIONAL EXPERIENCE**

#### **Academic Appointments**

- 2019 -      Assistant Professor, Planning and Sustainable Built Environments  
School of Landscape Architecture and Planning, University of Arizona
- 2017 -      Chair, Sustainable Built Environments  
School of Landscape Architecture and Planning, University of Arizona
- 2009 - 2019      Lecturer, Planning  
School of Landscape Architecture and Planning, University of Arizona
- 2016 - 2017      Director, Academic Initiatives and Student Success  
College of Architecture, Planning, and Landscape Architecture, University of  
Arizona
- 2012 - 2015      Coordinator, Sustainable Built Environments Program  
College of Architecture, Planning, and Landscape Architecture, University of  
Arizona

## Other Professional Experience

- 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 Papers

**Keith, Ladd**, Nicole Iroz-Elardo, Erika Austof, Ida Sami\*, and Mona Arora. In Print. Extreme Heat at Outdoor COVID-19 Vaccination Sites. *Journal of Climate Change and Health*.

**Keith, Ladd**, Sara Meerow, and Tess Wagner\*. 2020. Planning for extreme heat: A review. *Journal of Extreme Events*, 6(03n04), 2050003. <https://doi.org/10.1142/S2345737620500037>

Austhof, Erika, Vjollca Berisha, Ben McMahan, Gigi Owen, **Ladd Keith**, Matthew Roach, and Heidi E. Brown. 2020. Engaging public health stakeholders in climate and health adaptation. *Atmosphere*, 11(3), 265. <https://doi.org/10.3390/atmos11030265>

### Refereed Journal Papers Under Review

Meerow, Sara and **Ladd Keith**. Under Review. Planning for extreme heat: A national survey of U.S. planners.

Iuliano, Joseph\* and **Ladd Keith**. Under review. Misses and Split Routes: Comparing Rider Behavior, Driver Interaction, and Route Choice for Cyclists in Tucson, AZ.

### Works in Progress

**Keith, Ladd** and Sara Meerow. Planning for Urban Heat Resilience. (Under contract with the American Planning Association to be published as a Planning Advisory Service Report in 2022)

**Keith, Ladd** and Joseph E. Iuliano\*. In preparation. Planning for climate adaptation in the U.S. Southwest.

**Keith, Ladd** and Gregg M. Garfin. In preparation. Evaluating how climate action planning is

being mainstreamed into comprehensive plans in the U.S. Southwest.

Brown, Heidi, Valerie Madera-Garcia \*, and **Ladd Keith**. In preparation. Engaging a broader audience through assessing mosquito breeding in green infrastructure.

### Other Publications

**Keith, Ladd** and Andrea K. Gerlack. 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>

**Keith, Ladd** and Sara Meerow. 2021. QuickNotes: Urban Heat Resilience. American Planning Association (APA), Planning Advisory Service (PAS). <https://news.trust.org/item/20210705161002-pz8g0>

**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/>

**Keith, Ladd**, Nicole Iroz-Elardo, Ida Sami, and Erika Austhof. 2021. Extreme Heat at Outdoor Vaccination Sites: Banner South (Kino) Report. The University of Arizona.

**Keith, Ladd**, Nicole Iroz-Elardo, Ida Sami, and Erika Austhof. 2021. Extreme Heat at Outdoor Vaccination Sites: Tucson Medical Center Report. The University of Arizona.

**Keith, Ladd**, Nicole Iroz-Elardo, Ida Sami, and Erika Austhof. 2021. Extreme Heat at Outdoor Vaccination Sites: UArizona POD Report. The University of Arizona.

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 Napoli, 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. Heat and COVID-19 Information Series. Global Heat Health Information Network (GHHIN). <http://www.ghhin.org/heat-and-covid-19/> (Acknowledged as contributing author)

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>

**Keith, Ladd**, Ben McMahan, and Tess Wagner\*. 2019. Urban heat island maps and decision-making. University of Arizona, Climate Assessment for the Southwest (CLIMAS).

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).

Urban Resilience Program. 2019. Scorched: Extreme heat and real estate. Urban Land Institute. <https://americas.uli.org/research/centers-initiatives/urban-resilience-program/extreme-heat/> (Acknowledged as expert reviewer)

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).

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>

Urban Resilience Program. 2018. Ten principles for building resilience. Urban Land Institute. <https://americas.uli.org/research/centers-initiatives/urban-resilience-program/ten-principles-building-resilience/> (Acknowledged as workshop participant and contributor)

## **AWARDED RESEARCH GRANTS**

### **Research Grants**

- 2021-2022 PI: **Ladd Keith**, Co-I: Nicole Iroz-Elardo and Kristina Currans. \$75,000. Assessing Cool Corridor Heat Resilience Strategies for Human-Scale Transportation. National Institute for Transportation & Communities (NITC), NITC 16 General Research Round 5.
- 2021-2022 PI: **Ladd Keith**, Co-I: Sara Meerow and Joseph DeAngelis, Project Advisor: Philip Berke. \$147,474. Plan Integration for Resilience Scorecard for Heat (PIRSH). National Oceanic and Atmospheric Administration (NOAA), Climate Program Office's Extreme Heat Risk Initiative.
- 2021 PI: **Ladd Keith**, Co-I: Nicole Iroz-Elardo and Ida Sami, Project Advisor: Erika Austhof. \$8,403. Extreme Heat at Pima County COVID-19 Vaccination Sites. University of Arizona's Office for Research, Innovation and Impact - Research Advancement Grants.
- 2020-2023 PI: Braden Kay, Co-I: Katja Brundiars and Paul Coseo. \$584,886. (Recognized as Research Support: **Ladd Keith**.) Cool Kids, Cool Places, Cool Futures: Community-based, arts-enhanced, and youth-focused approach for equitable urban cooling and emergency management. Robert Wood Johnson Foundation.
- 2020-2021 PI: **Ladd Keith**. \$40,000. Urban heat and health interventions and evidence gaps. National Oceanic and Atmospheric Administration (NOAA), A Regional Integrated Sciences and Assessments Program (RISA), Climate Assessment in the

Southwest (CLIMAS).

- 2020-2021 PI: Mark Kear, Co-I: Kacey Ernst, Gregg Garfin, **Ladd Keith**, Margaret Wilder, Patricia Solis, and David Hondula. \$44,973. Heat, Housing, and Health: Convergent Exposure and Thermal Insecurity in Mobile and Manufactured Housing. University of Arizona, Office for Research, Innovation, and Impact.
- 2020 PI: Jonathan Jae-an Crisman, Co-I: **Ladd Keith** and Gregg Garfin. \$8,850. Visioning a cooler Tucson: Participatory planning for extreme heat resilience. University of Arizona, Office for Research, Innovation, and Impact.
- 2018-2020 PI: Heidi E. Brown; Co-I: **Ladd Keith**. \$67,356. Water harvesting as a mal-adaptation in respect to vector-borne diseases. National Oceanic and Atmospheric Administration (NOAA), Regional Integrated Sciences and Assessments (RISA), Climate Assessment in the Southwest (CLIMAS).
- 2017-2020 PI: Alison Meadow; Co-I: **Ladd Keith**, Sarah LeRoy, and Jeremy Weiss. \$487,586. Community climate profiles to support adaptation planning. National Oceanic and Atmospheric Administration (NOAA), Regional Integrated Sciences and Assessments (RISA), Climate Assessment in the Southwest (CLIMAS).
- 2018-2019 PI: Heidi E. Brown; Co-I: **Ladd Keith**. \$25,000. Is adaptation mal-adaptation: An assessment of mosquitos and water harvesting. Pacific Southwest Regional Center of Excellence in Vector-borne Diseases (PACVEC) Training Grant Program. U.S. Centers for Disease Control and Prevention (CDC).
- 2017-2019 PI: **Ladd Keith**; Co-I: Ben McMahan. \$121,336. Evaluating the use of urban heat island and heat increase modeling in land use planning. National Oceanic and Atmospheric Administration (NOAA), Regional Integrated Sciences and Assessments Program (RISA), Climate Assessment in the Southwest (CLIMAS).
- 2016-2017 PI: **Ladd Keith**. \$45,281. Year 5 assessment: Urban resilience in Arizona and New Mexico. National Oceanic and Atmospheric Administration (NOAA), Regional Integrated Sciences and Assessments (RISA), Climate Assessment in the Southwest (CLIMAS).

### **Additional Research Experience**

- 2016-2017 PI: Gregg M. Garfin, Sarah LeRoy, and Hunter Jones. Research Affiliate: **Ladd Keith**. Travel and lodging reimbursed. Rio Grande/Bravo extreme heat and human health - Southwest regional pilot. National Integrated Heat Health Information System (NIHHIS). National Oceanic and Atmospheric Administration (NOAA) and Texas Tech University (TTU) Climate Science Center, City of El Paso, University of Texas at El Paso, and U.S. Environmental Protection Agency (EPA) Region 6.

2016 PI: Sascha Petersen; Co-PI: Gregg M. Garfin, Mark Shafer, Katharine Hayhoe, Karen MacClune; Research Affiliate: **Ladd Keith**. Travel and lodging reimbursed. Las Cruces, NM - Extreme weather events, critical thresholds, and climate preparedness. National Oceanic and Atmospheric Administration (NOAA).

### **HONORS AND AWARDS**

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 Magazine, 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**

2021 Presenter, Extreme Heat Network. *Network of Networks Meeting*. American Society of Adaptation Professionals. (Virtual). May 14, 2021.

2021 Presenter and Discussion Lead, Planning for Extreme Heat, Creating Regional Extreme Heat Resilience Plans. *2021 Carolinas Climate Resilience Conference*. NOAA Carolinas Integrated Sciences and Assessments (CISA). (Virtual). May 5, 2021.

2021 Co-Facilitator, Roundtable Discussion - Climate Resilience: How Can We Get There? *16<sup>th</sup> 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*. (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. February 25, 2021.

- 2020 Panelist, ASAP Job Seekers Professional Development. *ASAP Virtual Network Meeting*. American Society of Adaptation Professionals. (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. *29<sup>th</sup> 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*. Webinar to New York City Mayor’s Office of Resiliency. 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. *Arizona Heat Planning Workshop*. Phoenix, Arizona. April 8, 2019.
- 2019 Presenter, Community planning for climate action. Sustainable Cities Network of Arizona roundtable event, *American Meteorological Society 99<sup>th</sup> Annual Meeting*. Phoenix, Arizona. January 10, 2019.
- 2019 Panelist, Emerging needs, opportunities, and careers in climate information services: Key sector perspectives. *American Meteorological Society 99<sup>th</sup> Annual Meeting - Seventh Symposium on Weather, Water, and Climate Enterprise*. Phoenix, Arizona. January 5, 2019.
- 2018 Panelist, State of practice: The built environment in the Southwest. *American Society of Adaptation Professionals – Southwest Adaptation Forum (SWAF)*, 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*. Center for Climate Adaptation Science and Solutions (CCASS), University of Arizona. 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*, Climate Assessment for the Southwest (CLIMAS), University of Arizona. 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*. Native Nations Climate Change Adaptation Program, University of Arizona. Tucson, Arizona. July 12, 2017.
- 2017 Presenter, CLIMAS 5-year assessment update, *NOAA Monthly RISA Call*, NOAA. July 6, 2017.
- 2016 Panelist, Influence of politics on planning. *American Planning Association, Arizona Chapter - Southern Section Brownbag Panel*. 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? *American Planning Association, Arizona Chapter - Southern Section Brownbag Panel*. Tucson, Arizona. March 21, 2013.
- 2012 Moderator, Smarter cities: Technology as a tool in real estate development and urban design. *Fall Meeting, Urban Land Institute*. Denver, Colorado. October 17, 2012.
- 2012 Panelist, Careers in sustainability. Career Services, University of Arizona. Tucson, Arizona. February 23, 2012.
- 2011 Moderator, Your first day as a planning commissioner. *American Planning Association, Arizona Chapter Conference*. Tucson, Arizona. September 28, 2011.
- 2010 Speaker, Creating true community dialogue. *American Planning Association, Arizona Chapter Conference*. Phoenix, Arizona. November 4, 2010.

**Papers Presented**

Presented, \*Student advisee

- 2021 **Keith, Ladd** and Sara Meerow. Planning for Extreme Heat in U.S. Cities. *18<sup>th</sup> Annual Climate Prediction Applications Science Workshop*. April 21, 2021.
- 2021 Wilkening, Betsy and **Ladd Keith**. Extreme Heat Phenomenon: A Hot Topic for

- Teaching and Communicating. (Poster) *18<sup>th</sup> Annual Climate Prediction Applications Science Workshop*. April 21, 2021.
- 2021 Sami, Ida\* and **Ladd Keith**. Increasing Heat Resilience Through Thermal Comfort Assessment in Sun Link Streetcar Stops, Tucson AZ. (Poster) *18<sup>th</sup> Annual Climate Prediction Applications Science Workshop*. April 21, 2021.
- 2021 Jones, Hunter, V. **Ladd Keith**, Sara Meerow, and Kelly Turner, Advancing Urban Heat Resilience. *National Council for Science and the Environment (NCSE) Drawdown 2021*. (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). 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. *18<sup>th</sup> Annual Climate Prediction Applications Science Workshop*. 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) *18<sup>th</sup> Annual Climate Prediction Applications Science Workshop*. 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) *18<sup>th</sup> Annual Climate Prediction Applications Science Workshop*. 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*. 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) *American Meteorological Society (AMS) Annual Meeting Conference – 15<sup>th</sup> Symposium on the Urban Environment*. 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. *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) *American Geophysical Union*. San Francisco, California. December 9, 2019.

## **TEACHING**

### **Current Courses**

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

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

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

### **Past Courses**

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

PLG 301 Introduction to Regional Planning (2009-2013)

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

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

PLG 605 Planning Theory (2013)

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

SBE 201 Sustainable Design & Planning (2013-2015)

SBE 202 Professional Communication & Presentation (2013-2016)

SBE 393 Professional Internship Seminar (2013-2016)

SBE 498 Senior Capstone (2014-2015)

**STUDENT MENTORSHIP & SUPERVISION**

**Doctoral Students**

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

2018- Ida Sami, Ph.D. in Arid Lands Resource Sciences. Committee Chair.

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

**Graduate Students**

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

2020- Lauren Ruth Jensen. Dual Masters in City and Regional Planning and Public Health at University North Carolina Chapel Hill. Committee Member.

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

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

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

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

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

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

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

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

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

## **Undergraduate Students**

- 2021 Walker Norris. B.A. in Business (Sustainability) at Arizona State University, 2021. Honors Thesis Committee Member.
- 2020 Tyler Louis Wardell. B.S. in Sustainable Built Environments, 2020. Senior Capstone Mentor.

## **SERVICE AND OUTREACH**

### **Professional Memberships**

- 2020- American Society of Adaptation Professionals (ASAP)
- 2009- Association of Collegiate Schools of Planning (ACSP)
- 2005- Urban Land Institute (ULI), Full Member
- 2003- American Planning Association (APA)

### **Journal Review Activity**

Environmental Science & Technology (2021), Oxford Open Climate Change (2021), Journal of the American Planning Association (2020), Journal of Planning Literature (2020), Sustainable Production and Consumption (2020), Journal of Planning Practice & Research (2019), International Journal of Disaster Risk Reduction (2019)

### **National and International Service**

- 2019 - Lead, UA Extreme Heat Network, University of Arizona.
- 2018 - 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**

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

- 2021 - Representative, Council of Faculty Members (CFM), College of Architecture, Planning, and Landscape Architecture.
- 2020 - Teaching Scholar, Biosphere 2 Innovative Faculty Teaching Fellows, Biosphere 2.
- 2020 - Member, AZ Online Faculty Advisory Committee, Arizona Online.
- 2019 - Affiliate Faculty, Arid Lands Resource Sciences. Graduate Interdisciplinary Degree Program.
- 2019 - Affiliate Faculty, Global Change. Graduate Interdisciplinary Degree Program.
- 2018 - Member, Advisory Team. Center for Climate Change Adaptation Science and Solutions (CCASS).
- 2016 - Research Affiliate, Climate Assessment for the Southwest (CLIMAS).
- 2012 - Faculty Advisor, Graduate Planning Society.
- 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, UA 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.



- 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 Board Committee. 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**

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

Guest Lecture, 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.

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

Guest Lecture, EHS 525 Global to Local: Environmental Change and Human Health. University

of Arizona (invited by Mona Arora). March 4, 2020.

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

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

Guest Lecture, 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.

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

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

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

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

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

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

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

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

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

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

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

Guest Lecture, SBE 195A Introduction to Sustainability, University of Arizona (invited by

Michael Esser). September 7, 2016.

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

Guest Lecture, 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.

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

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

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

Guest Judge, Graduate Planning Expo, School of Landscape Architecture and Planning, College of Architecture and Landscape Architecture, University of Arizona (invited by Iris Patten). April 12, 2012.

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

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

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

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

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

## **INTERVIEWS AND MEDIA**

Tucker-Smith, Owen. “Neighbor wasting water? Is ‘water shaming’ the answer?” *The Salt Lake Tribune*. July 21, 2021. <https://www.sltrib.com/news/environment/2021/07/12/neighbor-wasting-water-is/>

O’Donnell, Tim. “How will cities adapt to extreme heat?” *The Week*. July 12, 2021.

<https://theweek.com/news/1002508/how-will-cities-adapt-to-extreme-heat>

Parsons, Doug. “Extreme Heat in the News, Naming Heat Waves, Thermal Equity and more with Dr. Ladd Keith.” *America Adapts: The Climate Change Podcast*. July 5, 2021.

<https://www.americaadapts.org/episodes/extreme-heat-in-the-news-naming-heat-waves-thermal-equity-and-more-with-dr-ladd-keith>

Quinn, Destiny. “Protecting yourself during extreme heat.” *KVOA News 4*. July 1, 2021.

<https://kvoa.com/news/2021/07/01/protecting-yourself-during-extreme-heat/>

Mittan, Kyle. “Keeping Homes and Cities Cool in Extreme Heat.” *University of Arizona, University Communications*. June 23, 2021. <https://news.arizona.edu/story/keeping-homes-and-cities-cool-extreme-heat>

Ramirez, Jasmine. “MONSOON 2021: Hiking in heat can have deadly repercussions in southern Arizona.” *KOLD News 13*. June 14, 2021. <https://www.kold.com/2021/06/14/monsoon-2021-hiking-heat-can-have-deadly-repercussions-southern-arizona/>

Root, Tik. “Heat and Smog Hit Low-Income Communities and People of Color Hardest, Scientists Say.” *The Washington Post*. May 25, 201. <https://www.washingtonpost.com/climate-environment/2021/05/25/heat-inequality-climate-change/>

Maher, Savannah. “EPA Publishes Climate Change Report For First Time Since 2016.” *KUNM/The Mountain West News Bureau*. May 14, 2021.

Davis, Tony. “Tucson's south side is a blistering heat island, study finds.” *The Arizona Daily Star*. April 3, 2021. [https://tucson.com/news/local/tucsons-south-side-is-a-blistering-heat-island-study-finds/article\\_49c18a5b-0d9b-5528-acd5-5f578373d225.html](https://tucson.com/news/local/tucsons-south-side-is-a-blistering-heat-island-study-finds/article_49c18a5b-0d9b-5528-acd5-5f578373d225.html)

Hethcock, Bill. “Will Dallas see wave of HQ relocations slow after power outages and grid failures?” *Dallas Business Journal*. February 24, 2021. <https://www.bizjournals.com/dallas/news/2021/02/24/dallas-corporate-relocations-power-outages.html>

Hethcock, Bill. “How to rebuild a Dallas neighborhood after severe tornado.” *Dallas Business Journal*. February 22, 2021. <https://www.bizjournals.com/dallas/news/2021/02/22/tornado-dallas-dart-station-walnut-hill.html>

Parsons, Doug. “The 2020 Climate Year in Review Episode” *America Adapts: The Climate Change Podcast*. December 30, 2020. <https://www.americaadapts.org/episodes/the-2020-climate-year-in-review-episode>

Kempe, Ysabelle. “In Las Vegas, hotter days will impact lower-income, Black and Brown residents the most” *ClimateXChange*. December 1, 2020. <https://climate-xchange.org/2020/12/01/in-las-vegas-hotter-days-will-impact-lower-income-black-and-brown-residents-the-most/>

Dougherty, Anne. "A Discussion on Redlining and Urban Heat" *Current: An Energy Podcast*. September 25, 2020. <https://soundcloud.com/illumeadvising/a-discussion-on-redlining-and-urban-heat>

Brocius, Ariana. "The risks of severe heat." *Arizona Public Media*. September 4, 2020. <https://news.azpm.org/p/news-topical-nature/2020/9/4/179760-the-risks-of-severe-heat/>

Reznick, Alisa and Nick O’Gara. "Feels like the end of the world': Tucson grapples with record heat during pandemic." *Arizona Public Media*. September 3, 2020. <https://news.azpm.org/p/news-articles/2020/9/3/179724-feels-like-the-end-of-the-world-tucson-grapples-with-record-heat-during-pandemic/>

Kutz, Jessica. "Extreme heat is here, and it’s deadly." *High Country News*. September 1, 2020. <https://www.hcn.org/issues/52.9/south-climate-change-extreme-heat-is-here-and-its-deadly>

McGee, Earyn. "Heat and virus bring a double threat to vulnerable populations." *Las Vegas Review-Journal*. July 9, 2020. <https://www.reviewjournal.com/life/health/heat-and-virus-bring-a-double-threat-to-vulnerable-populations-2070804/>

Ford, Jon. "Heat, Health, and COVID-19." *The Vitalyst Spark Podcast*. June 30, 2020. <https://www.podbean.com/media/share/pb-b23bg-e1acfd>

Parsons, Doug. "Fundamentals of Extreme Heat and Climate Change with Dr. Ladd Keith of University of Arizona." *America Adapts: The Climate Change Podcast*. January 12, 2020. <https://www.americaadapts.org/episodes/fundamentals-of-extreme-heat-and-climate-change-with-dr-ladd-keith-of-university-of-arizona>

Patel, Rudri Bhatt. "What Desert Cities Can Teach Us About Water." *JSTOR Daily*. October 8, 2019. Access: <https://daily.jstor.org/what-desert-cities-can-teach-us-about-water/>

Panchuk, Kerri. "Heat Wave: How Rising Temperatures In Urban Heat Islands Are Challenging And Inspiring Developers." *Bisnow Dallas-Fort Worth*. September 8, 2019.

Brodie, Mark. "Report: Extreme Heat Is A Problem Nationwide, Not Just In Desert Cities." *KJZZ's The Show*. September 5, 2019.

Ariza, Mario Alejandro. "How can Miami cope with two extra feet of water by 2060? ULI experts weigh in." *The Real Deal*. June 7, 2019.

Brodie, Mark. "Urban Planners Looking to Standardize Heat Maps." *KJZZ's The Show*. April 5, 2019.

White, Marquies. "One-of-a-kind Arid Lands Resource Science graduate program celebrates 50<sup>th</sup> anniversary." *The Daily Wildcat*. February 21, 2019.

Parsons, Doug. "End-of-the-Year Holiday Special." *America Adapts Podcast*. December 14, 2018.

Perkins, Anthony. "Hot Weather Forecast Warms Up Urban Planning Research." *Arizona Public Media News*. May 4, 2018.

Litvak, Emily. "For Desert Dwellers, a Life in Balance." *University of Arizona – Research, Discovery, & Innovation – Research Stories*. April 19, 2018.

Bell, Austin. "Architecture, ecology converge in Arcosanti." *Puma Press*. April 16, 2018.

Meinhold, Bridgette. "Sustainable Communities." *Montage Magazine*. January 2014.

Mittan, Kyle. "College of Architecture develops undergrad degree in sustainability." *The Daily Wildcat*. March 8, 2012.

Sharpe, Jeremy. "Pushing Boundaries." *Urban Land Magazine*. March/April 2011.