

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

Ph.D. (2019), University of Arizona, Tucson, Arizona

- Major: Arid Lands Resource Sciences (Graduate Interdisciplinary Degree Program)
- Minor: Global Change (Graduate Interdisciplinary Degree Program)
- Dissertation: Assessing Policy Innovation: Climate Action Planning in the U.S. Southwest

M.S. (2005), University of Arizona, Tucson, Arizona

- Major: Planning (School of Planning)

B.A. (2003), University of Arizona, Tucson, Arizona

- Major: Media Arts (School of Media Arts)
- Minor: Japanese (Department of East Asian Studies)

ACADEMIC APPOINTMENTS

Chair, Sustainable Built Environments Program (2017 – Present)
School of Landscape Architecture and Planning, College of Architecture, Planning, and
Landscape Architecture, University of Arizona

Research Affiliate (2016 – Present)
Climate Assessment for the Southwest (CLIMAS), Institute of the Environment, University of
Arizona

Planning Lecturer (2009 – Present)
School of Landscape Architecture and Planning, College of Architecture, Planning, and
Landscape Architecture, University of Arizona

Director, Academic Initiatives and Student Success (2016 – 2017)
College of Architecture, Planning, and Landscape Architecture, University of Arizona

Coordinator, Sustainable Built Environments Program (2012 – 2015)
College of Architecture, Planning, and Landscape Architecture, University of Arizona

PROFESSIONAL EXPERIENCE

Principal Planner (2009 – 2011)
Urbano Group, LLC, Tucson, Arizona

Senior Planner (2006 – 2009)
Engineering & Environmental Consultants, Inc., Tucson, Arizona

Planner (2005)
Engineering & Environmental Consultants, Inc., Tucson, Arizona

Planning Intern (2004)
Town of Oro Valley, Arizona

AWARDED RESEARCH GRANTS

National Oceanic and Atmospheric Administration (NOAA), A Regional Integrated Sciences and Assessments Program (RISA), Climate Assessment in the Southwest (CLIMAS). (\$67,356)
“Water Harvesting as a Mal-adaptation in Respect to Vector-borne Diseases.” Principal Investigator: Heidi Brown; Co-Investigator: Ladd Keith. 2018-Present.

National Oceanic and Atmospheric Administration (NOAA), A Regional Integrated Sciences and Assessments Program (RISA), Climate Assessment in the Southwest (CLIMAS). (\$121,336)
“Evaluating the Use of Urban Heat Island and Heat Increase Modeling in Land Use Planning.” Principal Investigator: Ladd Keith; Co-Investigator: Ben McMahan. 2017-Present.

National Oceanic and Atmospheric Administration (NOAA), A Regional Integrated Sciences and Assessments Program (RISA), Climate Assessment in the Southwest (CLIMAS). (\$487,586)
“Community Climate Profiles to Support Adaptation Planning.” Principal Investigator: Alison Meadow; Co-Investigators: Ladd Keith, Sarah LeRoy, and Jeremy Weiss. 2017-Present.

2018 Pacific Southwest Regional Center of Excellence in Vector-borne Diseases (PACVEC) Training Grant Program. U.S. Centers for Disease Control and Prevention. 2018-2019. (\$25,000)
“Is Adaptation Mal-adaptation: An Assessment of Mosquitos and Water Harvesting.” Principal Investigator: Heidi Brown; Co-Investigator: Ladd Keith.

National Oceanic and Atmospheric Administration (NOAA), A Regional Integrated Sciences and Assessments Program (RISA), Climate Assessment in the Southwest (CLIMAS). (\$45,281)
“Year 5 Assessment: Urban Resilience in Arizona and New Mexico.” Principal Investigator: Ladd Keith. 2016-2017.

Additional Research Experience

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 Region 6. (Travel Reimbursed) “Rio Grande/Bravo Extreme Heat and Human Health - Southwest Regional Pilot.” Principal Investigators: Gregg M. Garfin, Sarah LeRoy, and Hunter Jones. Research Affiliate: Ladd Keith. 2016-2017.

National Oceanic and Atmospheric Administration (NOAA). (Travel Reimbursed) “Las Cruces, NM - Extreme Weather Events, Critical Thresholds, and Climate Preparedness.” Principal Investigator: Sascha Petersen. Co-Principal Investigators: Gregg M. Garfin, Mark Shafer, Katharine Hayhoe, and Karen MacClune. Research Affiliate: Ladd Keith. 2016.

City of Tucson. (\$10,000) “Broadway Boulevard Pop-up Park on Site of Demolished Panda Buffet Restaurant.” Public Participation Course Instructor and City Liaison: Ladd Keith. 2014.

PUBLICATIONS

Refereed Journal Articles

Keith, Ladd and Gregg M. Garfin (In Prep). Evaluating how climate action planning is being mainstreamed into comprehensive plans in the U.S. Southwest.

Keith, Ladd and Joseph E. Iuliano (In Prep). What challenges and opportunities do planners in the U.S. Southwest perceive in addressing climate risk?

Austhof, Erika; Berisha, Vjollca; McMahan, Ben; Owen, Gigi; Keith, Ladd; Roach, Matt; Brown, Heidi E. (In Prep). Engaging public health stakeholders in climate change adaptation: Lessons learned from Maricopa County, AZ and the Climate Assessment for the Southwest (CLIMAS).

Reports

Urban Resilience Program. (2019). Scorched: Extreme Heat and Real Estate. Washington, DC: Urban Land Institute. (Expert Reviewer)

Meadow, A.M., Sarah LeRoy, Jeremy Weiss, and Ladd Keith (2019). Climate Profile for The Highlands at Dove Mountain. Climate Assessment for the Southwest (CLIMAS), University of Arizona.

Meadow, A.M., Sarah LeRoy, Jeremy Weiss, and Ladd Keith (2018). Climate Profile for the City of Flagstaff, Arizona. Climate Assessment for the Southwest (CLIMAS), University of Arizona. <https://doi.org/10.13140/RG.2.2.20826.70083>

Urban Resilience Program. (2018). *Ten Principles for Building Resilience*. Washington, DC: Urban Land Institute. (Workshop Participant and Contributor)

Policy Contributions

City of Tucson. (2015). *Ordinance No. 11328 Urban Agriculture Zoning Text Revisions*. Role: City of Tucson Planning Commission Member. City of Tucson, Arizona.

City of Tucson. (2015). *Unified Development Code, Section 5.12 Downtown Area Infill Incentive District*. Role: City of Tucson Planning Commission Member and Infill Incentive District Subcommittee Member. City of Tucson, Arizona.

City of Tucson. (2014). *Ordinance No. 11199 Medical Marijuana Zoning Text Amendments*. Role: City of Tucson Planning Commission Member. City of Tucson, Arizona.

City of Tucson. (2013). *City of Tucson General and Sustainability Plan*. Role: City of Tucson Planning Commission Chair. City of Tucson, Arizona.

City of Tucson. (2012). *Main Gate Urban Overlay District*. Role: City of Tucson Planning Commission Member. City of Tucson, Arizona.

City of Tucson. (2012). *City of Tucson Unified Development Code (Land Use Code Simplification Project)*. Role: City of Tucson Planning Commission Member. City of Tucson, Arizona.

Pinal County. (2008). *Stevenson Ranch Master Plan and Rezoning (1,008 acres)*. Role: Planner with Engineering & Environmental Consultants, Inc. Pinal County, Arizona.

Huachuca City. (2008). *Campstone Master Plan, Rezoning, and Development Agreement (800 acres)*. Role: Planner with Engineering & Environmental Consultants, Inc. Huachuca City, Arizona.

Pima County. (2008). *Preliminary Integrated Water Management Plan (PIWMP)*. Role: Planner with Engineering & Environmental Consultants, Inc. Pima County, Arizona.

Cochise County. (2008). *Dark Star Ranch Master Plan & Arizona Department of Transportation - Interstate 10 Realignment (1,300 acres)*. Role: Planner with Engineering & Environmental Consultants, Inc. Cochise County, Arizona.

Cochise County. (2008). *Envisioning 2020 Land Use Planning in Cochise County*. Role: Community Workshop Facilitator. Cochise County, Arizona.

Cochise County. (2008). *Sunsites South Master Plan, Plan Amendment, and Rezoning (600 acres)*. Role: Planner with Engineering & Environmental Consultants, Inc. Cochise County, Arizona.

City of Sierra Vista. (2007). *Ventana de Flores Specific Plan (335 acres)*. Role: Planner with Engineering & Environmental Consultants, Inc. Huachuca City, Arizona.

Cochise County. (2007). *Sunsites Master Plan, Plan Amendment, and Rezoning (244 acres)*. Role: Planner with Engineering & Environmental Consultants, Inc. Cochise County, Arizona.

Santa Cruz County. (2007). *Three Canyons Conservation Community Master Plan (1,760 acres)*. Role: Planner with Engineering & Environmental Consultants, Inc. Santa Cruz County, Arizona.

TEACHING

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

PLG 301 Introduction to Regional Planning (2009-2013)

PLG 408/508 Planning for Urban Resilience (2018-2019)

PLG 497Q/597Q Public Participation & Dispute Resolution (2014, 2017-2018)

PLG 497S/597S Sustainable Development and 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 AND SUPERVISION

Masters Students

Tess Wagner. Master of Landscape Architecture (Current). Supervising as Graduate Research Assistant.

Amy Webb. Master of Landscape Architecture (2018). Supervised as Graduate Teaching Assistant. Current Landscape Designer at Norris Design.

Amanda Maass. M.S. in Planning (2017). Supervised as Graduate Research Assistant. Current Senior Research Analyst at ILLUME Advising, LLC.

Brianna Addotta. M.S. in Planning (2016). Supervised as Graduate Teaching Assistant. Current Planning Technician for City of Beaverton, Oregon.

Joseph Iuliano. M.S. in Planning (2015). Supervised as Graduate Teaching Assistant. Current Candidate for Ph.D. in Geography.

- Graduate Teaching Assistant of the Year. Spring 2014.

Robert Busick. M.S. in Planning (2015). Supervised as Graduate Teaching Assistant. Current Planner I at the City of Buckeye, Arizona.

Sally Harris. M.S. in Planning (2014). Supervised as Graduate Teaching Assistant. Current Global Relocation Design Manager at Intel Corporation.

Doctoral Students

Ida Sami, Ph.D. in Arid Lands Resource Sciences (Current). Chair.

Joseph Iuliano, Ph.D. in Geography (Current). Committee Member.

- National Institute for Transportation and Communities (NITC) Dissertation Fellowship. Spring 2019.
- National Institute for Transportation and Communities (NITC) Scholars. Fall 2018.
- John Stenner Memorial Scholarship. Spring 2017.

HONORS AND AWARDS

40 Under 40, Urban Land Magazine, Urban Land Institute (2016)

Darryl B. Dobras Award for Excellence, College of Architecture, Planning and Landscape Architecture, University of Arizona (2014)

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

Carol J. Carter Scholarship, University of Arizona (1999)

LEADERSHIP AND SERVICE

Journal Review Activity

Journal of Planning Practice & Research

National and International

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.

Chair, Advisory Service Panel, Leveraging Transit for Economic Development for Jacksonville, FL. Sponsored by Jacksonville Transportation Authority. Urban Land Institute. June 17-22, 2018.

Founding Advisory Board Member, Center for Sustainability, Urban Land Institute. 2014-2017.

Council Member, Sustainable Development Council, Urban Land Institute. 2012-2017.

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.

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.

Guest, Sustainable Development Council, Spring Meeting, Urban Land Institute. 2012.

Guest, Community Development Council - Silver Flight, Fall Meeting, Urban Land Institute. 2011.

Guest, Small Scale Development Council - Gold Flight, Spring Meeting, Urban Land Institute. 2011.

State and Local

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

Member, Conference Committee, American Planning Association, Arizona Chapter. 2019.

Planning Commissioner, City of Tucson Planning Commission. 2011-2019.

- Member, Infill Development District Subcommittee, City of Tucson Planning Commission. 2013-2015.
- Chair, City of Tucson Planning Commission. 2013-2014.

Chair, Urban Land Institute – Southern Arizona. 2012-2013.

Member, Advisory Board, Urban Land Institute – Arizona. 2012-2013.

Member, Public Policy Committee, Metropolitan Pima Alliance. 2011.

Member, Conference Committee, American Planning Association, Arizona Chapter. 2010-2011.

Founding Member and Co-Chair, Young Leaders Group, Urban Land Institute – Southern Arizona. 2005-2011.

Member, Events Committee, Metropolitan Pima Alliance. 2009-2010.

Board Member & Community Facilitator, Cochise County Envision 2020. 2007-2008.

University of Arizona

Advisory Team Member, Center for Climate Change Adaptation Science and Solutions (CCASS). 2018-Present.

Faculty Advisor, Graduate Planning Society. 2012-Present.

Member, Strategic Planning and Operations Advisory Committee, College of Architecture, Planning, and Landscape Architecture. 2018-2019.

Member, Sustainability Initiative Working Group, University of Arizona Strategic Plan. 2018.

Member, Doctoral Programs Task Force, College of Architecture, Planning, and Landscape Architecture. 2018.

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. 2016-2017.

Judge, 2016 UA Grad Slam, Graduate College. 2016.

Planning Internship Coordinator, School of Landscape Architecture and Planning, College of Architecture, Planning and Landscape Architecture. 2013-2016.

Judge, 2015 Centennial Awards, Student Affairs. 2015.

Judge, 2015 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.

Faculty Co-Sponsor, Urban Land Institute Gerald D. Hines Design Competition. 2015.

Judge, 2014 Student Showcase – Architecture, Planning, and Landscape Architecture Category. 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. 2013-2014.

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. 2012-2013.

Member, Faculty Advisory Committee, College of Architecture and Landscape Architecture. 2011.

PROFESSIONAL MEMBERSHIPS

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

American Planning Association (2003-Present)

INVITED PRESENTATIONS

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.

Presenter, Climate Action Student Engagement. *University Climate Change Coalition (UC3)*, University of Arizona. Tucson, Arizona. May 23, 2019.

Presenter, Future-Proofing Your Returns: Climate Risk and Your Bottom Line. Urban Land Institute – Arizona. Phoenix, Arizona. April 25, 2019.

Presenter and Facilitator, Heat Data for Urban Planning. *2019 Arizona Heat Planning Workshop*. Phoenix, Arizona. April 8, 2019.

Presenter, Community Planning for Climate Action. Sustainable Cities Network of Arizona Roundtable Event, *American Meteorological Society 99th Annual Meeting*. Phoenix, Arizona. January 10, 2019.

Panelist, Emerging Needs, Opportunities, and Careers in Climate Information Services: Key Sector Perspectives, *Seventh Symposium on Weather, Water, and Climate Enterprise, American Meteorological Society 99th Annual Meeting*. Phoenix, Arizona. January 5, 2019.

Panelist, State of Practice: The Built Environment in the Southwest, *American Society of Adaptation Professionals - Southwest Adaptation Forum*, University of Arizona. Tucson, Arizona. October 30, 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, University of Arizona. Tucson, Arizona. October 5, 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.

Presenter, Evaluating the Use of Urban Heat Island and Heat Increase Modelling in Land Use Planning and Decision-Making, *CLIMAS Colloquium Series*, CLIMAS, University of Arizona. Tucson, Arizona. September 29, 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.

Presenter, CLIMAS 5-Year Assessment Update, *NOAA Monthly RISA Call*, NOAA. July 6, 2017.

Panelist, Influence of Politics on Planning, *American Planning Association, Arizona Chapter - Southern Section Brownbag Panel*. Tucson, Arizona. October 21, 2016.

Panelist, The Curriculum: Perspectives in Building Sustainability Literacy into Coursework, *Arizona Higher Education Sustainability Conference*, University of Arizona. Tucson, Arizona. March 25, 2014.

Moderator, Where Do I Fit Into Planning?, *American Planning Association, Arizona Chapter - Southern Section Brownbag Panel*. Tucson, Arizona. March 21, 2013.

Moderator, Smarter Cities: Technology as a Tool in Real Estate Development and Urban Design, *Fall Meeting, Urban Land Institute*. Denver, Colorado. October 17, 2012.

Panelist, Careers in Sustainability, Career Services, University of Arizona. Tucson, Arizona. February 23, 2012.

Moderator, Your First Day as a Planning Commissioner, *American Planning Association, Arizona Chapter Conference*. Tucson, Arizona. September 28, 2011.

Speaker, Creating True Community Dialogue, *American Planning Association, Arizona Chapter Conference*. Phoenix, Arizona. November 4, 2010.

INVITED GUEST LECTURES

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/GEOG 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 (SELECTED)

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.

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: 46-48.