

**JESSE L. BARNES, PH.D**  
Assistant Professor of Public Administration  
University of Texas at San Antonio  
jesse.barnes2@utsa.edu || Website  
Updated: August 2025

## EDUCATION

---

### Degrees

2023      Ph.D., Public Affairs, University of Nevada, Las Vegas  
2019      M.S., Water Resources Management, University of Nevada, Las Vegas  
2016      B.A., Political Science, University of California, Berkeley

### Graduate Certificates

2023      Quantitative Social Science Methods, University of Nevada, Las Vegas

## ACADEMIC APPOINTMENTS

---

2025-      Assistant Professor, Public Administration, University of Texas at San Antonio  
2023-2025      Postdoctoral Research Scholar (NSF), Political Science, University of Nevada, Reno (UNR)  
2024      Part-Time Instructor, Political Science, UNR  
2021-2022      Instructor, School of Public Policy & Leadership, University of Nevada, Las Vegas (UNLV)

## PUBLICATIONS & OTHER RESEARCH (student co-authors underlined)

---

### Journal Articles:

13. Deslatte, A., Cheema, F., Adams, J., **Barnes, J.L.**, Koebele, E.A., Alonso Vicario, S. (2025). Understanding the Impact of Institutions on Climate-Adaptive Policy Designs: A Study of Collective Action Inference in Urban Water Systems. *Policy Studies Journal*.  
<http://doi.org/10.1111/psj.70060>
12. **Barnes, J.L.**, Koebele, E.A., Deslatte, A. 2025. Does Outsourcing Reduce Public Scrutiny toward Elected Officials?: Insights from US Municipal Water Management. *Public Administration*.  
<https://doi.org/10.1111/padm.13058>
11. Krishen, A.S., **Barnes, J.L.**, Hu, H.F. 2025. Consumer Knowledge and Sustainable Decision-Making: A Mixed-Method Inquiry and Proposed Model. *Technological Forecasting & Social Change*, <https://doi.org/10.1016/j.techfore.2024.123848>.
10. Azizi, K., **Barnes, J.L. (co-lead author)**, Deslatte, A., Koebele, E.A., Anderies, J.M., Garcia, M. 2025. Balancing Effectiveness and Equity in Sustainable Water Management Transitions: The Case of the Miami-Dade Water and Sewer Department. *Journal of Water Resources Planning and Management*, <https://doi.org/10.1061/JWRMD5.WRENG-6523>.
9. Deslatte, A., Cheema, F., Adams, J., Alonso Vicario, S., **Barnes, J.L.**, Koebele, E.A. 2024. The Infrastructures of Tomorrow: State-Enabled Response Diversity and Urban Water Resilience. *Ecology & Society*. <https://doi.org/10.5751/ES-15454-290428>
8. Azizi, K., **Barnes, J.L.**, Anderies, J. M., & Garcia, M. 2024. Equity Implications of Efficient Water Conservation Programs. 2024. *Environmental Research Letters*, <https://doi.org/10.1088/1748-9326/ad691a>.
7. Krishen, A.S., **Barnes, J.L.**, Petrescu, M. and Janjuha-Jivraj, S. 2024. Tweeting for change: social media narratives for sustainable service. *Journal of Research in Interactive Marketing*, <https://doi.org/10.1108/JRIM-04-2023-0118>.
6. **Barnes, J.L.** & Farmer, J.L. 2024. The Transaction Costs of the Administrative Presidency: Evidence from a Trump-Era Clean Water Act Enforcement Reduction. *The American Review*

- of *Public Administration*, 54(4): 307-322, <https://doi.org/10.1177/02750740241229763>.
5. **Barnes, J.L.**, Krishen, A.S., & Hu, H.F. 2023. Public tap water perceptions and potable reuse acceptance: A cognitive dissonance theoretical understanding. *Journal of Cleaner Production*, 429, 139587, <https://doi.org/10.1016/j.jclepro.2023.139587>.
  4. Hu, H.F., Krishen, A.S., & **Barnes, J.L.** 2023. Through narratives we learn: Exploring knowledge-building as a marketing strategy for prosocial water reuse. *Journal of Business Research*, 158, 113655, <https://doi.org/10.1016/j.jbusres.2023.113655>.
  3. **Barnes, J.L.**, Krishen, A.S., & Chan, A. 2022. Passive and active peer effects in the spatial diffusion of residential solar panels: A case study of the Las Vegas Valley. *Journal of Cleaner Production*, 363, 132634, <https://doi.org/10.1016/j.jclepro.2022.132634>.
  2. **Barnes, J.L.**, Krishen, A.S., & Hu, H.F. 2021. Untapped knowledge about water reuse: the roles of direct and indirect educational messaging. *Water Resources Management*, 35(8), 2601-2615, <https://doi.org/10.1007/s11269-021-02853-z>.
  1. **Barnes, J.L.**, & Nicholl, M.J. 2020. Mildly hydrophobic biobased mulch: A sustainable approach to controlling bare soil evaporation. *Vadose Zone Journal*, 19(1), e20047, <https://doi.org/10.1002/vzj2.20047>.

### **Non-Refereed Reports and Publications:**

5. **Barnes, J.L.** and Koebele, E.A. July 2023. Ripple Effects of SCOTUS' Wetland Ruling Threaten Quality of Nation's Water. *3Streams Blog*.
4. **Barnes, J.L.** May 2023. The Transaction Costs of Federal Environmental Policy Changes: The Effects of the Temporary COVID-19 CWA Rollback on Local Water Systems. *UNLV Theses, Dissertations, Professional Papers, and Capstones*. <http://dx.doi.org/10.34917/36114664>
3. **Barnes, J.L.**, Packham, J., Griswold, T., April 2023. Rural Bypass and Community Needs in Nevada – 2019 to 2021. *Nevada Health Workforce Research Center*.
2. **Barnes, J.L.**, Griswold, T., & Packham, J. November 2022. Primary Care Practice Patterns of UNR Med Graduates – 2005 to 2018. *Nevada Health Workforce Research Center*.
1. **Barnes, J.L.** August 2019. Application of Semi-Hydrophobic Layers to Decrease Bare Soil Evaporation. *UNLV Theses, Dissertations, Professional Papers, and Capstones*. <http://dx.doi.org/10.34917/16076251>

### **Under Review:**

- Barnes, J.L.**, Revise and Resubmit (at *Publius: Journal of Federalism*). Leave it to the States?: Impacts of Federal Environmental Policy Reductions.
- Barnes, J.L.**, Koebele, E.A., Revise and Resubmit (at *Urban Affairs Review*). How State Mandates Moderate the Outsourcing-Sustainability Relationship in Municipal Service Delivery: Evidence from US Water Utility Decisions.
- Martin, H., Heron, R., Leyva-Sanchez, H., Perez, R., Callaway, A., Ermi, T., Picard, A., Grifaldo, J., **Barnes, J.L.**, Pedraza-Reyes, M., Robleto, E.A. In Review (at *Frontiers in Microbiology*). Mfd-dependent modulation of transcription of endospore formation influences sporogenesis and the structure of dormant *Bacillus subtilis* spores.

### **In Preparation:**

- Barnes, J.L.**, Koebele, E.A., (preparing for submission). Why Do Municipalities Reform Environmental Public Services?: Propositions for Future Theory Testing.
- Barnes, J.L.**, Powell, M.A. (preparing for submission). Does Political Decoupling Through Fair Market Privatization Improve Managerial and Political Outcomes? Insights from Water Utility Sales.
- Garcia, M.E., Anderies, J.M., Deslatte, A., Hornberger, G.M., Koebele, E.A., Vicario, S., Azizi, K., **Barnes, J.L.**, Wiechman, A. (preparing for submission). Fit to keep pace with change? Archetypes of urban water systems.
- Barnes, J.L.**, Switzer, D, Koebele, E.A. (writing). State and Local Institutional Variation and

Interactive Effects on Conservation-Oriented Water Utility Pricing.  
 Hu, H.F., Bagozzi, R.P., Krishen, A.S., **Barnes, J.L.** (writing). Moral Emotional Responses toward Sustainability: Contingencies of the Attitude-Decision Relationship.  
**Barnes, J.L., Kelly, T.** (data analysis). How States Address the Fire–Water Management Nexus: An Analysis of Fire, Forestry, and Water Plans.  
 Farmer, J.L., **Barnes, J.L.** (data analysis). The Effects of Regional Utility Districts and Watershed Partnerships in Interlocal Collaborations in the United States.  
**Barnes, J.L., Bell, E.** (data collection). Policy Diffusion Across Regional Collaborative Governance Institutions: Mechanisms and Effectiveness of Innovative Environmental Planning.

## RESEARCH AWARDS

---

2023	Best Dissertation Award, School of Public Policy & Leadership at UNLV
2021	Top 10 Finalist Award, Three-Minute Rebel Grad Slam Competition at UNLV
2020	Outstanding Thesis Award, Department of Geoscience at UNLV
2020	Best Conference Paper Runner Up, American Marketing Association & Public Policy Conference.

## RESEARCH FUNDING

---

2023	Finishing Fellowship, The Transaction Costs of Federal Environmental Policy Changes: The Effects of the Temporary COVID-19 CWA Rollback on Local Water Systems. UNLV Graduate College (\$12,000).
------	---

## CONFERENCE PRESENTATIONS (\*\* = upcoming, \* = presenter)

---

\*\*\***Barnes, J.L., Kelley, T.** November 2025. How States Address the Fire–Water Management Nexus: An Analysis of Fire, Forestry, and Water Plan. *Association for Public Policy Analysis & Management*, Seattle, WA.

\*\*\***Barnes, J.L., Switzer, D., Koebele, E.A.** September 2025. State and Local Institutional Variation and Interactive Effects on Conservation-Oriented Water Utility Pricing. *American Political Science Association Annual Conference*, Vancouver, BC, Canada.

**Barnes, J.L., Koebele, E.A.** June 2025. Why Do Municipalities Outsource or Insource Water Services?. *Universities Council on Water Resources*, Minneapolis, MN. (withdrawn)

\***Barnes, J.L., Koebele, E.A.** April 2025. Why Do Municipalities Outsource or Insource Environmental Public Services?. *Midwest Political Science Association Annual Conference*, Chicago, IL.

**Barnes, J.L., Powell, M.A.** April 2025. Do Voters Reward Incumbents for Outsourcing or Insourcing Utility Services? Evidence from the U.S. Urban Water Management Sector. *Midwest Political Science Association Annual Conference*, Chicago, IL.

Garcia, M.E., Anderies, J.M., Deslatte, A., Hornberger, G.M., Koebele, E.A., Vicario, S., Azizi, K., **Barnes, J.L., Wiechman, A.** December 2024. Fit to keep pace with change? Archetypes of urban water systems. *American Geophysical Union Annual Meeting*, Washington, DC.

\***Barnes, J.L., Koebele, E.A.** September 2024. Does Outsourcing Environmental Service Delivery Support Municipal Sustainability?: Assessing the Moderating Role of State Mandates. *American Political Science Association Annual Conference*, Philadelphia, PA.

Deslatte, A., Koebele, E.A., **Barnes, J.L., Cheema, F.** September 2024. How Institutions Enable Policy Design: Climate Resilience in Urban Water Systems. *American Political Science Association Annual Conference*, Philadelphia, PA.

Deslatte, A., **Wiechman, A., Barnes, J.L.,** and Koebele, E.A. June 2024. How Institutions Mediate the Robustness of Infrastructure Systems to Environmental Change: An Urban Water Example. *7<sup>th</sup> Workshop on the Ostrom Workshop (WOW7)*, Bloomington, Indiana.

- \***Barnes, J.L.**, Koebele, E.A., Deslatte, A. April 2024. Delegating to Deflect? Exploring Political Decoupling and Public Attention in Water Utility Governance. *Midwest Political Science Association Annual Conference*, Chicago, IL.
- Azizi, K., **Barnes, J. L.**, Koebele, E.A., Anderies, J.M., & Garcia, M. December 2023. Equity and Effectiveness in Sustainable Water Management Practices: Insights from Miami-Dade's Water Conservation Program. *American Geophysical Union Annual Meeting*, San Francisco, CA.
- \***Barnes, J.L.** September 2023. Bridging Federal Environmental Policy Enforcement and Local Implementation Outcomes: The Moderating Role of State Enforcement Stringency. *American Political Science Association Annual Conference*, Los Angeles, CA.
- \***Barnes, J.L.**, Farmer, J.L. April 2023. Contested Federalism and Local Drinking Water Administration: The Effect of a Federal Rollback in Clean Water Act Enforcement. *Midwestern Political Science Association Annual Conference*, Chicago, IL.
- Heron, R., **Barnes, J.L.**, Leyva-Sanchez, H.C., & Robleto, E. June 2022. The Effect of Mfd on expression of sporulation genes in *B. subtilis*. *Wind River Conference on Prokaryotic Biology*, Estes Park, CO.
- Farmer, J.L., **Barnes, J.L.**, April 2022. Regional Institutions and Interlocal Climate Change Partnerships. *Midwestern Political Science Association Annual Conference*, Chicago, IL.
- Krishen, A., Hu, H., **Barnes, J.L.**, February 2021. Building Knowledge Through Trust: Exploring the Relationships of Political Ideology. *American Marketing Association Winter Academic Conference*, Virtual.
- Krishen, A., Hu, H., **Barnes, J.L.**, May 2020. Untapped Education: Exploring the Relationship Between Political Ideology and Water Reuse. *American Marketing Association & Public Policy Conference*, Virtual.

## TEACHING

### University of Texas at San Antonio

2025 PAD 5323 Public Policy Process (graduate, hybrid) (1 section)

### University of Nevada, Reno

2024 PSC403C/603C Environmental Policy (undergraduate/graduate, in person) (1 section)

### University of Nevada, Las Vegas

2021-2022 ENV 101 Introduction to Environmental Science (undergraduate, online) (4 sections)  
 2021 ENV 210 Introduction to Climate Change (undergraduate, online) (1 section)  
 2021-2022 URST 410 Environmental Policy in Urban Settings (undergraduate, online) (2 sections)  
 2020-2022 URST 241 Urban Governance in the United States (undergraduate, online) (4 sections)

## SERVICE

### Manuscript Review:

*Energy Research & Social Science; Energy Sources, Part B: Economics, Planning, and Policy; Environmental Research Letters, Journal of American Water Works Association; Journal of Business Research; Journal of Energy Efficiency; Journal of Cleaner Production; Journal of Public Administration Research and Theory; Policy Studies Journal; Sustainable Cities and Society*

### Service to the Profession:

2025 Chair and Discussant, Midwestern Political Science Association  
 2024 Discussant, Midwestern Political Science Association  
 2024 Committee Member, Paul A. Sabatier Best Conference Paper Award, American Political Science Association STEP Section

2023 Discussant, American Political Science Association Annual Conference  
 2023 Discussant, Midwestern Political Science Association Annual Conference

### University Service:

2021-2022 Ambassador, Grad Rebel Ambassador Program, Directed by UNLV Graduate College  
 2020-2021 Mentor, Grad Rebel Advantage Program, Directed by UNLV Graduate College

### Interviews and Media Coverage:

2020 Interview for *Capital Press* (“Researchers invent plastic-free ‘sustainable’ mulch” by Sierra Dawn McClain) (re: Barnes & Nicholl 2020, *Vadose Zone Journal*)  
 2020 Research highlight (re: Barnes & Nicholl 2020, *Vadose Zone Journal*) in *American Society of Agronomy*.  
 2020 Research highlight (re: Barnes & Nicholl 2020, *Vadose Zone Journal*) in *Soil Science Society of America*.  
 2020 Research highlight (re: Barnes & Nicholl 2020, *Vadose Zone Journal*) in *Technology Times*.

### Professional Memberships and Honor Societies:

American Political Science Association (STEP and Federalism), 2023-present  
 Midwest Political Science Association, 2023-present  
 Pi Alpha Alpha, 2020-2023  
 Phi Kappa Phi, 2018-2023

### INVITED TALKS

2023 Invited Lecturer, “United States Water Quality Governance.” UNR.

### PROFESSIONAL DEVELOPMENT

2023 Data Science and Text Analysis Course. University of Michigan, *ICPSR Summer Program in Quantitative Methods of Social Research*  
 2020 System Dynamics Modeling. Virtual Summer Training. *System Dynamics Society*

### TECHNICAL SKILLS

Statistical Modeling  
 Econometric Modeling (difference-in-differences)  
 Geographical Information Systems  
 Structural Topic Modeling  
 Software: STATA, R, ArcGIS, GeoDa, Excel  
 Basic Lab Skills

### ASSISTANTSHIPS AND OTHER EMPLOYMENT

2022-2023 Research Analyst, Nevada Health Workforce Research Center, UNR.  
 2022 Graduate Research & Teaching Assistant, School of Public Policy and Leadership, UNLV (Fall).  
 2021-2022 Research Assistant, Life Sciences Department, UNLV (Winter).  
 2021 Research Assistant, Department of Marketing, UNLV (Spring).  
 2019-2020 Graduate Research & Teaching Assistant, School of Public Policy and Leadership,

	UNLV.
2019	Graduate Research Assistant, Civil and Environmental Engineering, UNLV (Spring, Summer).
2018	Research Assistant, Civil and Environmental Engineering, UNLV (Fall).
2018	Graduate Assistant, Academic Success Center, UNLV (Spring, Summer, Fall).
2016-2017	Cyber Security Account Executive, Darktrace, San Francisco, CA.
2015-2016	Business Development Representative, Morgan Stanley, San Francisco CA.
2013-2015	Fundraiser/Trainer/Student Manager, Cal Calling Center, Berkeley, CA.