

Philip Stoker

Associate Professor of Planning
University of Arizona • College of Architecture, Planning and Landscape Architecture
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EDUCATION

Ph.D. in Metropolitan Planning, Policy and Design. University of Utah.	2015
M.R.M in resource management, Simon Fraser University, British Columbia, Canada.	2011
B.S. in Environmental Management. University of Redlands, California	2008

EMPLOYMENT

<i>Associate Professor of Planning (tenured)</i> College of Architecture, Planning and Landscape Architecture, University of Arizona	2022
<i>Assistant Professor of Planning and Landscape Architecture (tenure track)</i> College of Architecture, Planning and Landscape Architecture, University of Arizona	2016-2022
<i>Postdoctoral Research Associate</i> College of Architecture, Planning and Landscape Architecture, University of Arizona	2015
<i>Graduate Research Assistant</i> College of Architecture and Planning, University of Utah	2012-2015

HONORS AND AWARDS

Nominated for the Five Star Faculty Award	2020
Honorable Mention, EPA Campus Rain Works Challenge (Co-Adviser)	2019
Sumner Swaner Award for Excellence in Ecological Planning	2015
Utah American Planning Association's Outstanding Award in Regional Planning	2014
J. Paul Riley American Water Resources Association best student paper	2014

PUBLICATIONS

Peer Reviewed Journal Articles

1. Landgrave-Serrano, M., & **Stoker, P.** (2022). Increasing physical activity and active transportation in an arid city: Slow Streets and the COVID-19 pandemic. *Journal of Urban Design*, 1-19.
2. **Stoker, P.**, Albrecht, T., Follingstad, G., Carlson, E. (2021). "Coordinating land use planning and water management in U.S. cities: A literature review". *Journal of the American Water Resources Association*. Accepted pending minor revisions.
3. Landgrave-Serrano, M., **Stoker, P.**, Crisman, J. (2021). "Punctual Urbanisms: Rapid Planning Responses to Urban Problems." *Journal of Planning Literature*. In Press.
4. **Stoker, P.**, Rumore, D., Romaniello, L., Levine, Z. (2020). "Planning and Development Challenges in Western Gateway Communities." *Journal of the American Planning Association*. 87:1, 21-33.
5. Díaz-Caravantes, R. E., Zuniga-Teran, A., Martín, F., Bernabeu, M., **Stoker, P.**, & Scott, C. (2020). "Urban water security: a comparative study of cities in the arid Americas." *Environment and Urbanization*, 32(1), 275-294.
6. **Stoker, P.**, Chang, H., Wentz, E., Crow-Miller, B., Jehle, G., Bonnette, M. (2019). "Building water-efficient cities: A comparative analysis of how the built environment influences water use in four western US cities." *Journal of the American Planning Association*. 1-14.
7. Zuniga-Teran, A., **Stoker, P.**, Gimblett, R., Orr, B.J., Marsh, S., Guertin, P. (2019). "Exploring the influence of neighborhood walkability on the frequency of use of greenspace." *Landscape and Urban Planning*. 190.
8. **Stoker, P.**, Hinnners, S., Jackson-Smith, D., Levine, Z. (2019). "Neighborhood Effects on Parcel-Level Water Use." *Sustainable Water Resources Management*. 5(3), 1303-1313.
9. Nelson, A., **Stoker, P.**, Hibberd, R. (2018). "Light Rail Transit and Economic Recovery. A Case of Resilience or Transformation?" *Research in Transportation Economics*. 74, 2-9.
10. Chang, H., Bonnette, M., **Stoker, P.**, Crow-Miller, B., Wentz, E. (2017). "Determinants of Single Family Residential Water Use Across Scales in Four Western US Cities." *Science of the Total Environment*. 596, 451-464.
11. **Stoker, P.**, Rothfeder, R., Dudley, K., Dennison, P., Buchert, M. (2017). "Comparing the utility of LiDAR data vs. multi-spectral imagery for parcel scale water demand modeling." *Urban Water Journal*. 14, (3), 331-335.
12. Jackson-Smith, D., **Stoker, P.**, Buchert, M., Cannon, M., Hinnners, S., Li, E. (2016). "Neighborhood Socio-Ecology along a Gradient of Urbanization." *Cities and the Environment*. 9 (1), 5.

13. Crow-Miller, B., Chang, H., **Stoker, P.**, Wentz, E. (2016). "Facilitating collaborative urban water management through university-utility cooperation." *Sustainable Cities and Society*. 27, 475-485.
14. **Stoker, P.**, Garfinkel-Castro, A., Khayesi, M., Odero, W., Mwangi, M., Peden, M., Ewing, R. (2015). "Pedestrian Safety and the Built Environment. A review of the Risk Factors." *Journal of Planning Literature*. 30 (4), 377-392.
15. Hale, R., Armstrong, A., Baker, M....**Stoker, P.**, Strong, C. (2015). "iSAW: Integrating Structure, Actors, and Water to study socio-hydro-ecological systems." *Earth's Future*. 3 (3), 110-132.
16. **Stoker, P.**, Ewing, R. (2014). "Job-worker and Income Match in the United States." *Housing Policy Debate*. 24 (2), 485-497.
17. **Stoker, P.**, Rothfeder, R. (2014). "Drivers of Urban Water Use." *Sustainable Cities and Society*. 12, 1-8.
18. **Stoker, P.**, Willet, C., Altrichter, M., Sherman, P. (2012). "Use of Habitats by Coyotes (*Canis latrans*) in Joshua Tree National Park." *The Southwestern Naturalist*. 57 (2), 214-216.

Book Chapters

1. **Stoker, P.**, Tian, G., Kim, J. (2020). "Analysis of Variance (ANOVA)". In Ewing, R., & Park, K. (Eds.). *Basic Quantitative Research Methods for Urban Planners*. Routledge.
2. **Stoker, P.**, Adkins, A., Ewing, R. (2017). "Pedestrian Safety and Public Health." In *Walking: Connecting Sustainable Transport with Health*. Emerald Publishing Limited. (
3. **Stoker, P.**, Petheram, S., Ewing, R. (2015). "Urban Structure and Travel." In *International Handbook on Transport and Development*. Edited by Hickman, Givoni, Bonilla, and Banister.
4. Nelson, A. C., Petheram, S., Ewing, R., **Stoker, P.**, Hamidi, S. (2013). "Compact development patterns as a factor in income resilience among shrinking cities." In *Shrinking Cities: A Global Perspective*. Routledge.

Professional Reports

1. Lansley, K., **Stoker, P.**, Marcus, M., Zallesky, T., Santiago, X. (2024) "Water Demand under Climate Change in the SRP region." Final report prepared for the Salt River Project.
2. **Stoker, P.** (2023). "Urban water demand under different development scenarios". Salt River Project.
3. Rumore, D., **Stoker, P.** (2023) "Rural Gentrification and the Spillover Effect: Integrated Transportation, Housing, and Land Use Challenges and Strategies in Gateway Communities". National Institute of Transportation and Communities.

4. **Stoker, P.** (2022). “Urban Development and Water Consumption in the Salt River Project Service Area. Salt River Project.
5. Bierbrauer, A., Brachna, J., Stefani, K., Piro, R., **Stoker, P.** (2021) “Survey of Water Planning in Colorado Final Report”. Prepared for the Colorado Department of Natural Resources.
6. Quarles, A.** , **Stoker, P.** (2020). “138kV Network Expansion: Parcel Suitability Analysis.” Prepared for Tucson Electric Provider.
7. Rumore, D., **Stoker, P.**, Levine, Z.** , & Romaniello, L.** (2019). “Planning in Gateway and Natural Amenity Region Communities.” Prepared for the National Institute of Transportation and Communities.
8. **Stoker, P.**, Pivo, G., Stoicof, A.** , Kavkewitz, J.** , Grigg, N., Howe, C. (2018). “Joining up Urban Water Management with Urban Planning and Design.” Prepared for the Water Research Foundation.
9. Elmer, V., Howe, C., **Stoker, P.**, Pivo, G. (2018).” Collaborating on water and planning: A perspective for planners.” Prepared for the American Planning Association, Planning Advisory Service Memo.
10. World Health Organization (**Stoker, P.** as a contributor) (2013). Pedestrian Safety: A Road Safety Manual for Decision-Makers and Practitioners.

Data Publications

1. Parcel scale land cover and land use for Arizona’s urbanized areas, Flagstaff, Phoenix-Mesa, Tucson. **Stoker, P.**, Santiago, X., Kear, M., Garcia, M. Environmental System Science Data Infrastructre for a Virtual Ecosystem. Department of Energy.

CONFERENCE PRESENTATIONS

1. **Stoker, P.**, Romaniello, L. “Research on Gateway Communities”.(2024) *BASECAMP*. Utah State University, Moab, Utah.
2. **Stoker, P.** “Extreme heat risk in Arizona’s urbanized areas” *ESS-DIVE specialty conference*. (2024) Remote.
3. **Stoker, P.** “Estimating Water Demand under different development scenarios” *American Collegiate Schools of Planning*. (2024) Seattle, Washington.
4. **Stoker, P.** “Evaluating the effectiveness of strategies to better integrate land use planning and water management”. (2023). *American Water Resources Association Specialty Conference*. Denver, CO.
5. Wu, J., **Stoker, P.** “Visualizing Regional Religious Systems (RRS): Mapping Hangzhou Buddhist Temples. *Western Conference of the Association for Asian Studies*. (2021). Provo. Remote Online.
6. Wu., J., **Stoker, P.** “Visualizing Regional Religious Systems (RRS): Mapping Hangzhou Buddhist Temples in a Digital Atlas”. *Pacific Neighborhood Consortium Annual Conference (2021)*. Taiwan. Remote Online.
7. **Stoker, P.** “Water Research Foundation and University of Arizona Survey”. *American Water Resources Association (2021)*. Remote Online.
8. **Stoker, P.** “Urban design and water consumption in the Phoenix Metropolitan Area”. *American Water Resources Association (2021)*. Remote Online.
9. **Stoker, P.** “A national assessment of the coordination between land use planning and water management. (2020).” *American Collegiate Schools of Planning National Conference*. Remote Online.
10. **Stoker, P.**, Quay, R., Sampson, D. (2019). “The connection between land use and water planning.” *American Planning Association Arizona Chapter Annual Conference*. Tucson, AZ.
11. **Stoker, P.**, Stoicof, A., Watson, L. (2019). “Risks related to climate change and reclamation in the Southwest.” *American Planning Association Arizona Chapter Annual Conference*. Tucson, AZ.
12. Romaniello, L., **Stoker, P.** (2019) “Planning in Gateway Communities.” *Montana Association of Planners Conference*. Pray, MT.
13. **Stoker, P.** (2019). “Planning Challenges in Gateway Communities.” *National Institute for Transportation and Communities Annual Conference*. Portland, OR.

14. Levine, Z., Rumore, D., **Stoker, P.** (2019). "Planning in Gateway and Natural Amenity Region (GNAR) Communities." *American Planning Association National Planning Conference*. San Francisco, CA.
15. Rumore, D., **Stoker, P.**, Levine, Z., Sleipness, O., Marcouiller D. (2018). "Roundtable on GNAR community planning and design." *American Collegiate Schools of Planning*. Buffalo, NY.
16. **Stoker, P.**, Chang, H., Wentz, E., Crow-Miller, B., Bonnette, M., Jehle, G. (2017). "Building water efficient cities." *American Collegiate Schools of Planning*. Denver, CO.
17. **Stoker, P.**, Pivo, G., Stoicof, A., Kavkewitz, J. (2016). "Integrating Land Use and Water Management." *American Collegiate Schools of Planning*. Portland, OR.

AWARDED GRANTS AND CONTRACTS

1. **U.S. Department of Fish and Wildlife: \$719,426** **2024**
Stoker, P (Co-I).
"Tucson Urban Wildlife Refuge"
2. **Jobs for Justice: \$40,000** **2024**
Stoker, P. (PI)
"Energy audit of the Sunnyside School District"
3. **Salt River Project: \$81,000** **2023**
Stoker, P. (Co-PI)
"Residential water demand under climate change"
4. **Lincoln Land Institute of Land Policy: \$13,800** **2023**
Stoker, P. (PI)
"Land Use and Water Planning Integration for the Colorado River Basin reports and presentation development"
5. **Salt River Project: \$76,545** **2023**
Stoker, P (Co-PI)
"Estimating Future Water Demand Under Different Growth Scenarios"
6. **Salt River Project. \$60,141** **2022**
Stoker, P. (PI).
"Understanding the relationship between urban form, land development, and water consumption in the SRP regions"
7. **National Institute for Transportation and Communities: \$74,000** **2021**
Danya Rumore (PI), Stoker, P. (Co-PI).
"Rural Gentrification and the Spillover Effect: Integrated Transportation, Housing and Land Use Challenges and Strategies in Gateway Communities"

- 8. Lincoln Land Institute of Land Policy: \$2,000**

Stoker, P. (PI).
“Colorado Water Survey Final Report”

2021
- 9. University of Arizona CAPLA Seed Grant: \$7,000**

Stoker, P. (PI), Wu, J.
“Mapping Historical Buddhist Temples in the Hangzhou Region of China”

2021
- 10. University of Arizona RII: \$35,000**

Sternberg, E.(PI), Yang, B., Li, S., Engineer, A, Stoker, P, Son, Y, Mehl, M. (all Co-PIs)
“Assessment of Health, Building Design, and Movement to Mitigate At-Risk Space in Post-COVID-19 Campus Re-entry”

2020
- 11. Salt River Project: \$76,000**

Stoker, P. (PI)
“Understanding the Relationship Between Urban Form, Land Development, and Water Consumption in the SRP Region”

2020
- 12. Tucson Electric Power: \$39,000**

Stoker, P. (PI)
“128kV Network Expansion: Parcel Suitability Analysis”

2019
- 13. Tumamoc Hill: A Many-Layered Cultural Landscape: \$6,000**

Johnson, L., (PI), Livingston, M., Stoker, P., Chorover, G., Erickson, H., Yang, B., Carr, L.
“GeoSpatial Analysis: Mapping of the landscape surrounding Tumamoc and creation of central geospatial dataset.”

2018
- 14. National Institute for Transportation and Communities. \$94,000**

Rumore, D., (PI), Stoker, P (Co-PI)
“Planning in Gateway and natural amenity communities: understanding unique challenges associated with transportation, mobility, and access to opportunity.”

2018
- 15. Water Environment and Reuse Foundation. \$100,000**

Pivo, G (PI), Stoker, P. (Co-PI).
“Integrating Land Use Planning and water Management.”

2016