

Curriculum Vitae

**Anna Gitter, M.S., Ph.D.**

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**Education**

**Ph.D.**, Water Management and Hydrological Science, Texas A&M University, College Station, TX  
(December 2021)

Dissertation: “Evaluating microbial risks in private wells and recreational waters”

Advisor: Dr. Terry Gentry

**M.S.**, Water Management and Hydrological Science, Texas A&M University, College Station, TX  
(December 2016)

Thesis: “Application of quantitative microbial risk assessment and bacterial source tracking to assess the associated human health risks from multiple fecal sources during recreational exposure in the Leon River”

Advisor: Dr. R. Karthikeyan

**B.S.**, Environmental Science (specialization: Environmental Health), University of Michigan,  
Ann Arbor, MI (May 2013)

**Research Experience**

**Assistant Professor (tenure-track)**, The University of Texas Health Science Center (UTHealth)-Houston School of Public Health, El Paso, TX, July 2023-current

**Postdoctoral Research Fellow**, The University of Texas Health Science Center (UTHealth)-Houston School of Public Health, El Paso, TX, Feb. 2022-June 2023

**Research Specialist I**, Texas Water Resources Institute, Texas A&M AgriLife Research, College Station, TX, Sept. 2020-January 2022

**Research Assistant**, Texas Water Resources Institute, Texas A&M AgriLife Research, College Station, TX, Sept. 2018-Aug. 2020

**Graduate Research Assistant**, Texas Water Resources Institute, Texas A&M AgriLife Research, College Station, TX, Sept. 2014-2016; Sept. 2017-Aug. 2018

**Edge-of-Field Water Quality Intern**, Whatcom Conservation District, Lynden, WA, Aug. 2017-Dec. 2017

**Research Interests**

- Environmental public health
- Quantitative risk assessment
- Water resources management
- Environmental sustainability

## Peer-Reviewed Journal Articles

1. Chen, X., Balliew, J., Bauer, C.X., Deegan, J., **Gitter, A.**, Hanson, B.M., Maresso, A.W., Tisza, M.J., Troisi, C.L., Rios, J., Mena, K.D., Boerwinkle, E. Revealing patterns of SARS-CoV-2 variant and evolution using RBD amplicon sequencing of wastewater. (Accepted in *Journal of Infection*.)
2. **Gitter, A.**, Mena, K.D., Mendez, K.S., Wu, F., & Gerba, C.P. (2024). Eye Infection Risks from *Pseudomonas aeruginosa* via hand soap and eye drops. *Applied and Environmental Microbiology*. 90(4), e02119-23. doi: 10.1128/aem.02119-23.
3. **Gitter, A.**, Boellstorff, D.E., Gholson, D. M., Pieper, K.J., Mena, K.D., Mendez, K.S. & Gentry, T.J. (2023). Texas well user stewardship practices three years after Hurricane Harvey. *Water*. 15(22), 3943. <https://doi.org/10.3390/w15223943>.
4. Oghuan, J., Chavarria, C., Vanderwal, S.C., **Gitter, A.**, Ojaruega, A.A., Monserrat, C., Bauer, C.X., Brown, E.L., Cregeen, S.J., Deegan, J., Hanson, B.M., Tisza, M., Ocaranza, H.I., Balliew, J., Maresso, A.W., Rios, J., Boerwinkle, E., Mena, K.D., Wu, F. (2023). Wastewater analysis of Mpox virus in a city with low prevalence of Mpox disease: an environmental surveillance study. *The Lancet Regional Health-Americas*. 28(100639). doi: 10.1016/j.lana.2023.100639.
5. **Gitter, A.**, Gidley, M., Mena, K.D., Ferguson, A., Sinigalliano, C., Bonacolta, A. & Solo-Gabriele, H. (2023). Integrating Microbial Source Tracking with Quantitative Microbial Risk Assessment to Evaluate Site Specific Risk Based Thresholds at Two South Florida Beaches. *Frontiers in Microbiology*. 14: 1210192. <https://doi.org/10.3389/fmicb.2023.1210192>.
6. **Gitter, A.**, Mena, K.D., Lisle, J.T. Informing ASR Treatment Practices in a Florida Aquifer through a Human Health Risk Approach. (2023). *International Journal of Environmental Research and Public Health*. 20(19): 6833. <https://doi.org/10.3390/ijerph20196833>.
7. Tisza, M., Javornik Creegen, S., Avadhanula, V., Zhang, P., Ayvaz, T., Feliz, K., Hoffman, K.L., Clark, J.R., Terwilliger, A., Ross, M.C., Cormier, J., Henke, D., Troisi, C., Wu, F., Rios, J., Deegan, J., Hansen, B., Balliew, J., **Gitter, A.**, Zhang, K., Li, R., Bauer, C.X., Mena, K.D., Piedra, P.A., Petrosino, J.F., Boerwinkle, E., Maresso, A. Comprehensive Wastewater Sequencing Reveals Community and Variant Dynamics of the Collective Human Virome. *Nature Communications*. 14(6878). <https://doi.org/10.1038/s41467-023-42064-1>.
8. Phan, T., Brozak, S., Pell, B., Oghuan, J., **Gitter, A.**, Hu, T., Ribeiro, R.M., Ke, R., Mena, K.D., Perelson, A.S., Kuang, Y., Wu, F. (2023). Making waves: Integrating wastewater surveillance with dynamic modeling to track and predict viral outbreaks. *Water Research*. 243: 120372.
9. **Gitter, A.**, Boellstorff, D.E., Mena, K. D., Gholson, D.M., Pieper, K.J., Chavarria, C.A., & Gentry, T.J. (2023). Quantitative microbial risk assessment for wells in flood-impacted areas. *Water*. 15(3):469. <https://doi.org/10.3390/w15030469>.
10. **Gitter, A.**, Bauer, C., Wu, F., Ramphul, R., Chavarria, C., Zhang, K., Petrosino, J., Mezzari, M., Gallegos, G., Terwilliger, A., Clark, J., Feliz, K., Avadhanula, V., Piedra, T., Weesner, K., Maresso, A. & Mena, K.D. (2023). Assessment of a SARS-CoV-2 wastewater monitoring program in El Paso, Texas from November 2020 to June 2022. *International Journal of Environmental Health Research*, 1-11. <https://doi.org/10.1080/09603123.2022.2159017>.
11. **Gitter, A.\***, Oghuan, J.\*, Godbole, A.R.\*, Chavarria, C.A., Monserrat, C., Hu, T., Wang, Y., Maresso, A.W., Hanson, B., Mena, K.D. & Wu, F. (2023). Not a waste: wastewater

surveillance to enhance public health. *Frontiers in Chemical Engineering*. 4: 1112876. <https://doi.org/10.3389/fceng.2022.1112876>.

\*These three authors contributed equally.

12. Wu, F., Oghuan, J., **Gitter, A.**, Mena, K.D. & Brown, E. (2023). Wide mismatches in the sequences of primers and probes for Monkeypox virus diagnostic assays. *Journal of Medical Virology*. 95(1): e28395.
13. Phan, T., Brozak, S., Pell, B., **Gitter, A.**, Mena, K.D., Kuang, Y. & Wu, F. (2023). A simple SEIR-V model to estimate infectious COVID-19 cases and predict viral transmission using wastewater-based surveillance data. *Science of the Total Environment*. 857(1): 159326. <https://doi.org/10.1016/j.scitotenv.2022.159326>.
14. Schramm, M., **Gitter, A.**, & Gregory, L. (2022). Total Maximum Daily Loads and *Escherichia coli* trends in Texas freshwater streams. *Journal of Contemporary Water Research and Education*. 176(1): 36-49.
15. **Gitter, A.**, Mena, K. D., Wagner, K. L., Boellstorff, D. E., Borel, K. E., Gregory, L. F., Gentry, T. J., & Karthikeyan, R. (2020). Human Health Risks Associated with Recreational Waters: Preliminary Approach of Integrating Quantitative Microbial Risk Assessment with Microbial Source Tracking. *Water*. 12(2): 327.
16. Gregory, L.F., **Gitter, A.**, Muela, S., & Wagner, K. L. (2019). Should Contact Recreation Water Quality Standards be Consistent across Hydrological Extremes?. *Journal of Contemporary Water Research & Education*. 166: 12-23.
17. Anderson, J., **Gitter, A.**, Lacey, R., & Karthikeyan, R. (2018). Transport, fate, and toxicity of selected public health insecticides in waterways. *Toxicological & Environmental Chemistry*. 100(1): 32-46.
18. Hamilton, K. A., Chen, A., Johnson, E. D. G., **Gitter, A.**, Kozak, S., Niquice, C., Zimmer-Faust, A. G., Weir, M. H., Mitchell, J., & Gurian, P. L. (2018). Salmonella risks due to consumption of aquaculture-produced shrimp. *Microbial Risk Analysis*. 9: 22-32.

#### *In development/Under Review*

19. Phan, T., Brozak, S., Pell, B., Ciupe, S.M., Ke, R., Ribeiro, R.M., **Gitter, A.**, Mena, K.D., Perelson, A.S., Kuang, Y., Wu, F. Prolonged viral shedding from noninfectious individuals confounds wastewater-based epidemiology. (Under Revision and Resubmission).
20. Chen, X., Phan, T., Lee, W.L., Rhode, S.F., Brozak, S., Pell, B., Palden, T., **Gitter, A.**, Kuang, Y., Wuertz, S., Thompson, J., Mena, K.D., Alm, E.J. & Wu, F. Global circulation of SARS-CoV-2 Omicron variant preceding the first case report revealed by wastewater surveillance. (Under review in *Water Research*).
21. Phan, T., Brozak, S., Pell, B., Ciupe, S.M., Ribeiro, R.M., **Gitter, A.**, Mena, K.D., Perelson, A.S., Kuang, Y., Wu, F. Post-recovery SARS-CoV-2 shedding shapes wastewater-based incidence estimates and variant detection. (Submitted to *Science Advances*).
22. Powers, N.C., **Gitter, A.**, Bleth, N., Johnson, A., Nicolay, J., Ayers, R., Turner, J.W. Microbial source tracking and quantitative microbial risk assessment in a coupled human-natural system. (Submitted to *Science of the Total Environment*).
23. **Gitter, A.**, Powers, N., Postma, S., Pinchback, J., Gregory, L. Evaluation human health risks in Little Bay. (Manuscript under revision).
24. **Gitter, A.**, Ruvalcaba, V., Clark, K., Tran, T., Wu, F., Hanson, B.M., Deegan, J., Balliew, J., Boerwinkle, E., Maresso, A., Mena, K.D. Turning Analysis into Action: Opportunities and

Challenges in Implementing Wastewater Science for Public Health Decision-Making.  
(Manuscript to be submitted to *Frontiers in Public Health*).

### Peer-Reviewed Reports/Letters

1. Tisza, M.J., Hanson, B.M., Wang, L., Payne, K., Clark, J.R., Ross, M.C., Mena, K.D., **Gitter, A.**, Javornik-Cregeen, S.J., Wu, F., Rios, J., Deegan, J., Piedra, P.A., Petrosino, J.F., Boerwinkle, E., Maresso, A.W. Sequencing-Based Detection of Avian Influenza A (H5N1) in Wastewater in Ten Cities. *The New England Journal of Medicine*. doi:10.1056/NEJMc2405937
2. Gregory, L.F., Tague, A., Hu, J., Gentry, T., Hux, B., **Gitter, A.**, Monserrat, C., Ruvalcaba, V., Bare, R., Kinsfather, C., Wetz, M., Frasca, A., Sengupta, D. 2024. *Texas Bacterial Source Tracking Program (FY22-23)*. Texas Water Resources Institute, TR-XX.
3. Gregory, L.F., Hux, B., Gentry, T.J., **Gitter, A.**, Monserrat, C., Casarez, E., Mena, K. 2022. *Texas Bacterial Source Tracking Program (FY20-FY21)*. Texas Water Resources Institute, TR-542.
4. Yang, L., **Gitter, A.**, Jain, S., Gregory, L. 2022. Watershed Characterization of the Angelina River above Sam Rayburn Reservoir Watershed. Texas Water Resources Institute, TR-539.
5. Schramm, M., **Gitter, A.**, Rambo, J., DeVilleneuve, S., Rhodes, E., Gregory, L. 2021. *Comparison of Daily Streamflow Estimation Methods in the Thompsons Creek Watershed*. Texas Water Resources Institute, TR-535.
6. **Gitter, A.** Gregory, L., Hux, B., Boswell, J., Gentry, T., Monserrat, C., Casarez, E., K. Mena. 2020. *Expansion and Evaluation of the Texas Bacterial Source Tracking Program (FY18-FY19)*. Texas Water Resources Institute, TR-530.
7. **Gitter, A.** Nayal, M., Rambo, J., Yang, L., L. Gregory. 2020. *Watershed Characterization of the Thompsons Creek Watershed*. Texas Water Resources Institute, TR-526.
8. **Gitter, A.**, Yang, L., L. Gregory. 2019. *Watershed Characterization of the Tributaries of the Neches River below Lake Palestine: Cedar, Hurricane, Biloxi and Jack Creeks*. Texas Water Resources Institute, TR-518.
9. Gregory, L., K. Lazar, **A. Gitter**. 2017. *Navasota River Below Lake Limestone Watershed Protection Plan*. Texas Water Resources Institute, TR-497.
10. Gregory, L., B. Jonescu, J. Murray, C. Schulz, **A. Gitter**, K. Wagner. 2016. *Carters Creek Total Maximum Daily Load Implementation Project Final Report*. Texas Water Resources Institute, TR-488.
11. Jonescu, B., L. Gregory, **A. Gitter**, K. Wagner. 2016. *Carters Creek Total Maximum Daily Load Implementation Project Routine, Reconnaissance and Stormwater Monitoring Report: Tasks 4 and 5*. Texas Water Resources Institute, TR-485.
12. Gregory, L. **A. Gitter**, K. Lazar. 2015. *Basin Approach to Address Bacterial Impairments in the Navasota River Watershed*. Texas Water Resources Institute, TR-476.

### Grants

#### Current Funding

1. 2023-2025 Southwest Center for Occupational and Environmental Health, Program: NIOSH Education and Research Center (ERC) (T42OH008421), Funder: CDC National Institute for Occupational Safety and Health, 2% FTE, Role: Co-Investigator (ERC Director: Sarah Felknor ).

2. 2022-2025 "Improving Community Health: MST and QMRA on the Texas Coast", Improving Community Health through Microbial Source Tracking (EPA-GM-2021-MST), Funder: U.S. EPA Gulf of Mexico, Effort: Year 1: 10.8%, Year 2: 11.87%, Year 3: 20%, Role: Subaward PI (Total Cost: \$494,348)
3. 2023-2024 "Texas Epidemic Public Health Institute (TEPHI)", Funder: State of Texas Office of the Governor, 10% FTE, Role: Researcher.
4. 2024-2026 "Texas Bacterial Source Tracking (FY25-26)", Funder: Texas State Soil and Water Conservation Board, 10% FTE, Role: Subaward PI (Total Cost: \$510,735)

*Previously Funded*

1. 2022-2024 "Evaluating Source-Specific Health Risks of Fecal Pollution in Little Bay", Texas General Land Office Coastal Management Program, Funder: Texas General Land Office Coastal Management Program; National Oceanic and Atmospheric Association, 12% FTE, Role: Subaward PI (Total Direct Costs: \$87,633)
2. 2022-2024 "Children's Healthy Learning Environments", Funder: United States Environmental Protection Agency, 10% FTE, Role: Postdoctoral Researcher (PI: Kristina D. Mena), (Total Cost: \$199,959)
3. 2022-2024 "Texas Bacterial Source Tracking (FY23-24)", Funder: Texas State Soil and Water Conservation Board, 15% FTE, Role: Subaward PI (Total Cost: \$646,154)
4. 2020-2022 "Texas Bacterial Source Tracking (FY20-21)", Texas State Soil and Water Conservation Board, (Total Cost: \$433,085, Role: Grant Writer, Project Manager and Research Assistant/Specialist; Co-PIs: Lucas Gregory and Terry Gentry; Co-I: Kristina Mena)
5. 2020-2021 "Approach to Address Indicator Bacteria Impairments in the Thompsons Creek Watershed (FY21)", Texas Commission on Environmental Quality TMDL Program, (Total Cost: \$59,809, Role: Project Manager and Research Specialist; PI: Lucas Gregory)
6. 2020-2021 "Support for Total Maximum Daily Loads (TMDLs) to Address Bacteria Impairments in Cedar Creek, Hurricane Creek, Jack Creek, and Biloxi Creek (FY21)", Texas Commission on Environmental Quality TMDL Program (Total Cost: \$67,134, Role: Project Manager and Research Specialist; PI: Lucas Gregory)
7. 2017-2021 "Water Quality and Pollutant Loading Assessment in the Angelina River above Sam Rayburn Watershed", Texas State Soil and Water Conservation Board, (Total Cost: \$384,945, Role: Project Manager and Research Assistant, PI: Lucas Gregory)
8. 2019-2020 "Approach to Address Indicator Bacteria Impairments in the Thompsons Creek Watershed (FY20)", Texas Commission on Environmental Quality TMDL Program, (Total Cost: \$85,298, Role: Project Manager and Research Assistant; PI: Lucas Gregory)

9. 2019-2020 “Support to Address Indicator Bacteria Impairments in Tributaries of the Neches River Below Lake Palestine (FY20)”, Texas Commission on Environmental Quality TMDL Program, (Total Cost: \$131,190, Role: Project Manager and Research Assistant; PI: Lucas Gregory)
10. 2018-2019 “Approach to Address Indicator Bacteria Impairments in Tributaries of the Neches River Below Lake Palestine (FY19)”, Texas Commission on Environmental Quality TMDL Program, (Total Cost: \$164,387, Role: Project Manager and Research Assistant; PI: Lucas Gregory)
11. 2018-2020 “Texas Bacterial Source Tracking Program (FY18-19)”, Texas State Soil and Water Conservation Board, (Total Cost: \$370,169, Role: Project Manager, Co-PIs: Lucas Gregory and Terry Gentry; Co-I: Kristina D. Mena)

*Recently Submitted*

1. 2025-2028 “Comprehensive assessment of De Facto Water Reuse in the Rio Grande: multi-indicator analysis, risk evaluation, and decision support tool development”, United States Environmental Protection Agency, (Total Cost: \$2,188,742, Role: Principal Investigator, Co-PI: Fuqing Wu)
2. 2025-2026 “Characterizing experiences of water insecurity in the Acres Homes community”, U54 Acres Homes Cancer Prevention Collaboration Pilot Projects, (Total Cost: \$67,048, Role: Principal Investigator)
3. 2025-2028 “Upstream: A Collaborative Approach to Reducing Pollution in the Gulf of Mexico”, U.S. Environmental Protection Agency, (Total Cost: \$643,742, Role: Co-Principal Investigator)
4. 2025-2027 “BST State of the Science Conference”, Texas State Soil and Water Conservation Board, (Total Subaward Cost: \$24,709, Role: Subaward PI)
5. 2025-2029 “PFAS and bone health over the life course in Hispanic/Latinos: emerging risk factors and underlying mechanisms”, National Institutes of Health, (Total Cost: \$1,128,195, Role: Subaward Co-Investigator).

*Not Funded*

1. 2021-2023 “Demonstration of Next Generation Sequencing of Pathogens to Identify Waterborne Pollutant Sources and Associated Human Health Risks”, Texas State Soil and Water Conservation Board, (Requested Amount: \$184,164, Role: Grant Writer and Project Manager; Co-PIs: Lucas Gregory and Terry Gentry)
2. 2023-2025 “Community, Wastewater, and Public Health: Bridging Gaps for Outbreak Preparedness”, The Water Research Foundation, (Total Funds Requested: \$216,276, Role: Principal Investigator, Co-PI: Kristina D. Mena)
3. 2023-2024 “Water, Health, and Climate: A conference to advance water to address climate change and public health challenges in the Paso del Norte Region”, Burroughs Wellcome Fund Climate Change and Human Health Seed Grants, (Total Funds Requested: \$49,546, Role: Principal Investigator, Co-I: Kristina D. Mena)

4. 2023-2025 “Advancing Water Reuse Technologies for Workforce Development”, National Science Foundation Regional Innovation Engines, (Total Funds Requested: \$709,150, Role: Postdoctoral Researcher; Co-Is: Fuqing Wu and Kayo Fujimoto; PI: Kristina D. Mena).
5. 2024-2033 “Diversifying the Economics of Water”, National Science Foundation Regional Innovation Engines, (Total Funds Request: \$10,263,094, Role: Co-I/Postdoctoral Researcher; Co-I: Fuqing Wu; PI: Kristina D. Mena).
6. 2024-2025 “Food Safety for Mars: Assessing and Mitigating Microbial Contamination of Packaged Foods for Prolonged Spaceflight using QMRA”, National Aeronautical Space Administration, (Total Funds Requested: \$149,005, Role: PI; Co-Is: Kristina D. Mena and Cici Bauer).
7. 2024-2026 “Enhancing the Multi-Cultural Water Workforce for Regional Success”, The Water Research Foundation, (Total Funds Requested: \$125,293, Role: Principal Investigator, Co-PI: Kristina D. Mena)
8. 2025-2027 “Integrating MST and QMRA to Improve Environmental Health on the Texas Coast”, Texas General Land Office Coastal Management Program and the National Oceanic and Atmospheric Association, (Total Cost: \$251,827, Role: Principal Investigator, Co-PIs: Lucas Gregory and Nicole Powers)
9. 2025-2028 “Building a Healthier, Resilient, and More Prosperous South Central El Paso”, United States Environmental Protection Agency, (Total Cost: \$17,571,990, Role: Co-Investigator)

### Teaching

- Co-Instructor (10%): PHM 2135/PHD 2135L: *Risk Analysis-Principles and Practice* (Spring 2023)
- Instructor (100%): PHW2205: *Health & Safety Program Management & Leadership* (Spring 2024,2025)
- Instructor (100%): PHW2110: *Public Health Ecology and the Human Environment* (Spring 2024 (2 sections) Summer 2024 (20%), Spring 2025)
- Co-Instructor (50%): PHWD2106: *Introduction to Doctoral Research Methods in Environmental and Occupational Health Sciences* (Fall 2024)

### Guest Lectures

- UTHHealth Houston SPH PH5610 Global Health Overview Class, *The Wicked Challenges Facing Water: Public Health Needs in Light of Climate Change* (October 25, 2023)
- UTHHealth Houston SPH PH5610 Global Health Overview Class, *The Wicked Challenges Facing Water: Public Health Needs in a Changing World* (October 23, 2024)

### Fellowships

- Postdoctoral Research Fellowship, UTHHealth Houston School of Public Health (2022-2024)
- OGAPS Dissertation Fellowship, Texas A&M University (2020) (\*declined due to employment conflict)

### Honors/Awards

- UCOWR Ph.D. Dissertation Award in Water Policy & Socioeconomics (2023)
- UCOWR 2022 *Journal of Contemporary Water Research and Education (JCWRE)* Paper of the Year Award (2023): Schramm, M., **Gitter, A.**, & Gregory, L. (2022). Total Maximum

Daily Loads and *Escherichia coli* Trends in Texas freshwater streams. *Journal of Contemporary Water Research and Education*, 176(1), 36-49.

- UTHealth Houston Postdoctoral Travel Award (2022)
- UCOWR/NIWR Annual Water Resources Conference-2<sup>nd</sup> place Graduate Student Oral Presentation (2021)
- Editor's Choice Award (June 1, 2020): **Gitter, A.**, K.D. Mena, K.L. Wagner, D.E. Boellstorff, K.E. Borel, L.F. Gregory, T.J. Gentry and R. Karthikeyan. (2020). Human health risks associated with recreational waters: preliminary approach of integrating quantitative microbial risk assessment with microbial source tracking. *Water* 12(2):327. <https://doi:10.3390/w12020327>.
- Mills Scholarship, Texas Water Resources Institute Mills Scholars Program (2019)
- Water Daze Poster Competition-2<sup>nd</sup> Place Award, Water Management and Hydrological Sciences Program, Texas A&M University (2018)

### Invited Presentations/Seminars/Panels/Stakeholder Meetings

1. Public Health Considerations when Assessing Contact Recreation: Integrating MST-QMRA (Gitter, A.), Bacteria Implementation Group 2024 Workshop, Houston-Galveston Area Council, Houston, TX, In-Person, November 2024.
2. Water Quality and Human Health: City-By-The-Sea (Powers, N.C., Gitter, A., Bleth, N., Turner, J.W.), City-By-The-Sea Property Owners Association Annual Meeting, Rockport, TX, In-Person, August 2024.
3. The Wonders and Woes of Water: Improving School Water Environments to Promote Healthy Learning (Ruvalcaba, V.\*, **Gitter, A.**, Vasquez, D., Griffin, C., Mena K.D.), Healthy Learning Environmental Conference, Texas Tech University Health Sciences in El Paso/Southwest Center for Pediatric Environmental Health, El Paso, TX, In-Person, July 2024.
4. Follow-Up Little Bay Stakeholder Meeting. (**Gitter, A.**, Powers, N., Gregory, L., Postma, S.) Follow-up presentation given to local stakeholders in Rockport, TX. In-Person, May 2024.
5. Invited Speaker, Innovating Water Resources Management through a Public Health Lens, Translational Research Seminar Series (TRSS), UTHealth Houston School of Public Health Brownsville Campus, Brownsville, TX. In-Person, April 2024.
6. Invited Panel Participant, "*The Role of Community Partners and Academic Institutions in Regional Health Engagement and Collaboration*" 2<sup>nd</sup> Annual West Texas Health Disparities Research Symposium, Texas Tech University Health Sciences, Lubbock, TX, In-Person, March 2024.
7. Water Reuse in El Paso. (Trejo, G., **Gitter, A.**, Balliew, J.) Presentation given to 2<sup>nd</sup> year Medical Students at the Texas Tech University Health Sciences Center at El Paso, El Paso, TX, In-Person, January 2024.
8. Wisdom from wastewater: Utilizing pathogen-based wastewater monitoring for public health preparedness. (**Gitter, A.**) Texas Association of Clean Water Agencies, El Paso, TX, In-Person, January 2024.
9. Assessing Community Risks: Translating Environmental Data to Advance Public Health. (**Gitter, A.**) Environmental and Occupational Health Sciences Research Seminar, Houston/Online, TX, Hybrid, January 2024.
10. Little Bay Stakeholder Meeting. (**Gitter, A.**, Powers, N., Gregory, L., Postma, S.) Presentation given to local stakeholders in Rockport, TX. In-Person, December 2023.



11. Wisdom from wastewater: lessons learned from a SARS-CoV-2 wastewater monitoring program. (**Gitter, A.**, Bauer, C., Wu, F., Chavarria, C., Mena, K.D.) Mississippi Water Resources Conference, Starkville, MS, In-Person, March 2023.

\*Graduate student presenting

### Conference Presentations

1. Flood Management for Private Wells: Utilizing QMRA and Survey Approaches to Understand Well User Health Risks and Practices after Hurricane Harvey. (**Gitter, A.**, Boellstorff, D.E., Mena, K.D., Gholson, D.M., Pieper, K.J., Chavarria, C.A., Gentry, T. J.). Universities Council on Water Resources/National Institutes of Water Resources Conference, Fort Collins, CO, June 2023.
2. Quantitative microbial risk assessment of recreational beaches impacted by human, dog, and gull fecal sources. (**Gitter, A.**, Gidley, M., Sinigalliano, C., Solo-Gabriele, H., Mena, K. D.). Universities Council on Water Resources/National Institutes of Water Resources Conference, Greenville, SC, June 2022.
3. Risk Characterization of Private Wells Impacted by Hurricane Harvey Flooding. (**Gitter, A.**, Gentry, T., Mena, K.D., Boellstorff, D.E., Peterson, J., Gregory, L., and D. Gholson) Universities Council on Water Resources/National Institutes of Water Resources Conference, Virtual, June 2021.
4. Understanding Health Risks Associated with Flooding and Wells after Hurricane Harvey. (**Gitter, A.**, Gentry, T., Mena, K.D., Boellstorff, D.E., Peterson, J., Gregory, L., and D. Gholson) National Monitoring Conference, Virtual, April 2021.
5. Quantitative microbial risk assessment of contaminated private wells impacted by Hurricane Harvey flooding. (**Gitter, A.**, Gentry, T., Mena, K.D., Boellstorff, D.E., Gregory, L. and D. Gholson) Water and Health Conference, Chapel Hill, NC, October 2019.
6. Human health risks associated with microbial contamination of private wells impacted by floodwater from Hurricane Harvey. (**Gitter, A.**, Gentry, T., Mena, K.D., Boellstorff, D.E., Gregory, L. and D. Gholson) Southern Region Water Conference, College Station, TX, July 2019.
7. Identifying Data Gaps in Understanding Feasibility of Reuse of Nanoparticles-containing Wastewater and Un-Disinfected Biologically Stabilized Wastewater in Aquaculture. (Anandan, A., Arlene Chen, A., de-Graft Johnson, E., **Gitter, A.**, Gurian, P.L., Hamilton, K., Kumar, A., Kozak, S., Mitchell, J., Niquice, C., Singh, D., Baranidharan, S., and A. Zimmer-Faust) American Chemical Society, Philadelphia, PA, August 2016.

### Conference Sessions Organized

- “Protecting Human Health through Water Resources Management”, 2022 Universities Council on Water Resources/National Institutes of Water Resources Annual Conference, Greenville, SC (June 2022).
- “Understanding and Managing Water Resources Related to Human Health” 2021 Virtual Universities Council on Water Resources/National Institutes of Water Resources Annual Conference, Virtual, (June 2021).

### Roundtables

- Executive Roundtable for “El Paso Water’s Future”, El Paso Water, El Paso, TX (November 2024)

- “Fecal Indicator Organisms...What are they good for?” Universities Council on Water Resources 2021 Virtual Roundtable (February 2021).

## Media

1. Recorded interview “What goes into providing safe, drinkable water”, KTSM-El Paso Local News (August 24, 2024)
2. Social Media Videos for EPWater, “Water Talks with Dr. Gitter”, 4-part series, August 2024
3. Interviewed and quoted for the article, “El Paso’s drinking water has small amounts of lithium. What does that mean”, *El Paso Matters* (July 13, 2024)
4. Provided technical information regarding micro and nanoplastics in tap water to reporter with *Verywell Health* (March 5, 2024)
5. Recorded interview regarding nanoplastics in plastic bottled drinking water, KHOU 11 Houston Local News (January 11, 2024)
6. Live interview regarding nanoplastics in plastic bottled drinking water, FOX26 Houston Local News (January 11, 2024)
7. Provided technical information regarding CERCLA and remediation to reporter with the *Houston Landing* (September 21, 2023)
8. Interviewed and quoted for the article, “El Paso Water, local law enforcement warn about scheme to sell costly water filters; say city’s water is safe to drink”, *El Paso Matters* (September 24, 2023)
9. “Meet a scientist: Anna Gitter”, Texas Water Resources Institute, Texas A&M AgriLife (2019): (<https://twri.tamu.edu/news/2019/august/meet-a-scientist-anna-gitter/>)

## Professional and Volunteer Service

- Education/Communication Board Member, El Paso Water Public Service Board (2024-current)
- Run El Paso Board Member (2024-current)
- Academic Editor, *PLOS ONE* Journal (2025-current)
- Vida Water Technical Advisory Group (2024)
- Associate Editor, *Journal of Contemporary Water Research and Education* (2023-current)
- EOHS Admissions Committee (2024-current)
- EOHS Public Health Engineer Faculty Search Committee (2024)
- Practice Council, UTHealth Houston SPH (2023-current)
  - El Paso Campus Representative
- Faculty Council, UTHealth Houston SPH (2023-current)
  - EOHS Representative Alternate
- El Paso Campus Scholarship Committee (2023-current)
- El Paso Campus Social Events Committee (2022-current)
- TEPHI TEXWeb Consortium Committee (2022-current)
- TEPHI Wastewater Action Plan WG Committee (2022-current)
- Brazos Runners Club Board Member (2018-2021)

## Professional Experience

### Reviewer

November 2021-current

- *Journal of Water and Health*

- *Human and Ecological Risk Assessment: An International Journal*
- *Environmental Science and Pollution Research*
- *South Carolina Journal of Water Resources*
- *Water and Environment*
- *Rapid Reviews|Infectious Diseases*
- *Microbial Ecology*
- *Discover Water*
- *International Journal of Environmental Research and Public Health*
- *Societies*
- *Sustainability*
- *Water*
- *Pollutants*
- *Journal of Environmental Science & Health, Part A*
- *Health Science Reports*
- *Journal of Environmental Management*

<b>Reviewer</b> , NIOSH Pilot Projects Research Training Program	December 2023, 2024
<b>Reviewer</b> , UTHealth Houston Postdoctoral Travel Awards-Cycle 1	December 2022
<b>Reviewer</b> , TWRI Mills Scholarship Program	December 2020
<b>Reviewer</b> , USGS Graduate Research Program	December 2020
<b>Participant</b> , Quantitative Microbial Risk Assessment Interdisciplinary Instructional Institute (QMRA III) Michigan State University, East Lansing, MI	July 2016
<b>Participant</b> , International Perspectives on QMRA Drexel University, Philadelphia, PA	June 2015

**Professional Memberships**

- American Water Works Association member (2021-2022)

**Student Advising**

<b>Student Name</b>	<b>Degree</b>	<b>Role</b>	<b>Institution</b>
Aashka Jain	MPH (2024-ongoing)	MPH Advisor	UTHealth H SPH
John Huguley	MPH (2024-ongoing)	Academic Advisor	UTHealth H SPH
Adrian Garcia	MPH (2023-ongoing)	Academic Advisor	UTHealth H SPH
Valeria Ruvalcaba	PhD (2024-ongoing)	Committee Member	UTHealth H SPH
Linette Leadon	PhD (2024-ongoing)	Academic Advisor	UTHealth H SPH
Mahmoud Diallo	PhD (2024-ongoing)	Academic Advisor	UTHealth H SPH
Gretchen Rodriguez	DrPH (2024-ongoing)	Academic Advisor	UTHealth H SPH
Jo Ann Monroy	DrPH (2024)	Academic Advisor	UTHealth H SPH
Dionibe Some	Ph.D. (2023-ongoing)	Dissertation Advisor	UTHealth H SPH

Lynne Heilbrun	Ph.D. (2023-2024)	Academic Advisor	UTHealth H SPH
Carlos Chavarria	MPH/Ph.D. (2022-2023)	Mentor	UTHealth H SPH
Karla Mendez	Ph.D. (2022)	Mentor	UTHealth H SPH
Taylor Jordan	Ph.D. (2021)	Professional Mentor	Texas A&M University
Luna Yang	Ph.D. (2020-2021)	Professional Mentor	Texas A&M University