

Garett Thomas Sansom, DrPH, MPH

EXPERIENCE

Jan 2018 – Present	Texas A&M University, School of Public Health Environmental and Occupational Health Department , College Station, TX. <i>Research Assistant Professor</i>
Jan 2018 – Present	Texas A&M University, Institute for Sustainable Communities, Office of the Provost , College Station, TX. <i>Health and Environment Discovery Lead</i>
Jan 2017 – Present	Texas A&M University, College of Architecture Landscape Architecture and Urban Planning , College Station, TX. <i>Professor of Record</i>
May 2016 – Jan 2018	Texas A&M University, Institute for Sustainable Communities, Office of the Provost , College Station, TX. <i>Associate Director</i>
Sept 2013 – May 2016	Texas A&M University, Resilience and Climate Change Cooperative Initiative , College Station, TX. <i>Graduate Assistant Researcher</i>
May 2013 – Sept 2013	Texas State University, Meadows Center for Water and the Environment , San Marcos, TX. <i>Grants Specialist</i>
Sep 2012 – May 2015	Texas A&M University, School of Public Health Epidemiology and Biostatistics Department College Station, TX. <i>Graduate Teaching Assistant</i>
May 2011 – Aug 2012	Texas A&M University, School of Public Health Social and Behavioral Health Department . College Station, TX. <i>Graduate Research Assistant</i>
Dec 2006 – Aug 2008	American Cancer Society, High Plains Division , Austin, TX. <i>Cancer Information Specialist/Patient Navigator</i>

EDUCATION

- Texas A&M School of Public Health**, College Station TX (2016-2018) *Postdoctoral Researcher*
- Advisor: Jennifer Horney, PhD
 - Topic: Disaster and Environmental Vulnerability Project
- Texas A&M School of Public Health**, College Station TX (2013-2016) Doctor of Public Health (DrPH) – Epidemiology and Environmental Health
- Texas A&M School of Rural Public Health**, College Station TX (2010-2012) Master's in Public Health (MPH) – Epidemiology
- Harvard University**, Cambridge MA (2008-2009)
Continuing Education in Health Careers
- St. Edward's University**, Austin TX (2002-2006)
Bachelor of Arts in Philosophy *Cum Laude*

RESEARCH FELLOWSHIPS

The National Academies of Sciences Engineering and Medicine (NASEM). Gulf Research program – Early-Career *Research Fellow*

The Institute for Science, Technology, and Public Policy (ISTPP). Bush School of Government & Public Service Texas A&M University - *Research Fellow*

The Hazard Reduction and Recovery Center (HRRC). College of Architecture Texas A&M University - *Research Fellow*

Water Energy Food Nexus Research Group. Texas A&M University - *Research Fellow*

PEER-REVIEWED PUBLICATIONS

16. **Sansom, G.** Kirsch KR, Casillas GA, Camargo K, Wade TL, Knap AH, Baker ES, Horney JA. "Spatial distribution of polycyclic aromatic hydrocarbons concentrations after Hurricane Harvey in a Houston Neighborhood." *Journal of Health and Pollution* - ACCEPTED
15. **Sansom, G.** Aarvig, K. Sansom, L. Thompson, L. Fawkes, L. Katare, A. "Understanding Risk Communication and Willingness to Follow Emergency Recommendations Following Anthropogenic Disasters" *Journal of Environmental Justice: Special Issue: Hurricanes, Man-Made Disasters, and Environmental Injustice in the Gulf Coast* – 2020 ISSN: 1939-4071
14. Fawkes, L. Gonzales, B. Klumb, K. Yeboah-Agyapong, C. **Sansom, G.** "Determination of the Presence and Concentration of Heavy Metals Found in Crumb Rubber Mulch in Bryan–College Station Metropolitan Area Parks." *Texas Journal of Public Health* ISSN: 2574-5840
13. **Sansom, G.**, Kirsch, K., Horney, J. "Using the 12-item Short Form Health Survey (SF-12) to Assess Self Rated Health of an Engaged Population Impacted by Hurricane Harvey, Houston, TX." *BMC Public Health (Springer Nature)* - 20, 257 (2020). <https://doi.org/10.1186/s12889-020-8349->
12. Newman, G., Shi, T., Yao, Z., Li, D., **Sansom, G.**, Kirsch, K., & Horney, J. "Citizen Science-Informed Community Master Planning: Land Use and Built Environment Changes to Increase Flood Resilience and Decrease Contaminant Exposure." *International Journal of Environmental Research and Public Health*, 17(2), 486. 2020
11. **Sansom, G.** Cizmas, L. Aarvig, K. Dixon, B. Kirsch, K. Katare, A. Sansom, L. "Vulnerable Populations Exposed to Lead-Contaminated Drinking Water" *Int. J. Environ. Res. Public Health* 2019, 16(15), 2745; <https://doi.org/10.3390/ijerph16152745>
10. **Sansom, G.** Berke, P. McDonald, T. Shipp, E. Horney, J. "Evaluating the Impact of Race and Gender on Environmental Risk Perceptions in the Houston Neighborhood of Manchester." *Journal of Environmental Justice* – 2019 <https://doi.org/10.1089/env.2018.0028> 2019
9. Masterson, J. Meyer, M. Newman, G. Hendricks, H. **Sansom, G.** Horney, J. Van Zandt, S. "Interdisciplinary Citizen Science and Design Projects for Hazard and Disaster Education" *International Journal of Mass Emergencies and Disasters* - 2019 (VOL. 37, NO. 1)

8. **Sansom, G.** Kirsch, K. Stone, K. McDonald, T. Horney, J. "Domestic Exposure to Polycyclic Aromatic Hydrocarbons in a Houston, Texas, Environmental Justice Neighborhood" *Journal of Environmental Justice*. Published in Volume: 11 of Issue 5: 2018.
doi.org/10.1089/env.2018.0004
7. **Sansom, G.** Stone, K. Horney, JA. "Investigating Injuries Seen in Area Physician Offices after a Fertilizer Plant Explosion" *Texas Journal of Public Health* 2018;70(3):28-30
6. Meyer, M. Hendricks, M. Horney, J. Berke, P. Masterson, J. Newman, G. **Sansom, G.** Cousins, T. Van Zandt, S. Cooper, J. "Participatory Action Research: Tools for Disaster Resilience Education" *International Journal of Disaster Resilience in the Built Environment*. Volume: 9 Issue: 4/5, 2018
5. Portney, K and **Sansom, G.** "Sustainable Cities and Healthy Cities: Are They the Same?" *Journal of Urban Planning: special issue on Smart Solutions for Sustainable Cities – Vol 2, No 3* (2017). DOI: <http://dx.doi.org/10.17645/up.v2i3.1018>
4. Portney, K. Vedlitz, A. **Sansom, G.** Berke, P. Daher, B. "Governance of the Water-Energy-Food Nexus: the Conceptual and Methodological Foundations for the San Antonio Region Case Study." *Current Sustainable and Renewable Energy Reports - Springer* 2017 doi: 10.1007/s40518-017-0077-1
3. **Sansom, G.**, Parra, J., Nieto, Y., Arellano, Y., Berke, P., McDonald, T., Shipp, E., & Horney, J. "The impacts of exposure to environmental risk on physical and mental health in a small geographic community in Houston, TX." *Journal of Community Health* 2017 pp. 1–6. doi: 10.1007/s10900-017-0322-y
2. **Sansom, G.**; Berke, P.; McDonald, T.; Shipp, E.; Horney, J. "Confirming the Environmental Concerns of Community Members Utilizing Participatory-Based Research in the Houston Neighborhood of Manchester." *Int. J. Environ. Res. Public Health* 2016, 13, 839
1. Trueblood, A. **Sansom, G.** "Are Fracking Sites Associated with Increased Motor Vehicle Crashes in Texas?" *Texas Journal of Public Health* 2015 Vol. 67 Issue 3

PUBLICATIONS UNDER REVIEW

Sarnosky, K. Benden, M. Cizmas, L. Regan, A. **Sansom, G.** "Remote Work and the Environment: Exploratory Analysis of Indoor Air Quality of Commercial Offices and the Home Office" *BMC Public Health*

Sarnosky, K. **Sansom, G.** Benden, M. Cizmas, L. Regan, A. "Impact of workplace displacement during a natural disaster on productivity: an interrupted time series analysis" *BMJ Open*

Sansom, G. Hannibal, B. "Disparate Access to Nutritional Food; Place, Race and Equity in the United States." *BMC Nutrition*

Woodruff, S. Bowman, A. Hannibal, B. **Sansom, G.** Portney, K. "Urban Resilience: Analyzing the Policies of U.S. Cities" *Journal Cities*

Newman, G. **Sansom, G.** Yu, S. Kirsch, K. Li, D. Kim, Y. Horney, J. Kim, G. Musharrat, S. "Evaluating the effects of green infrastructure in mitigating floods and pollutant transferal during flood events." Journal PLOS One

BOOK CHAPTERS

Sansom, G. Kirsh, K. Horney, J. Newman, G. "Engaged Research for Community Resilience to Climate Change (1st ed). imprint: Elsevier ISBN: 9780128155752 (*in press; release June 1, 2020*)

Horney JA and **Sansom G.** (2019) Emergency Preparedness and Response Planning. In MK Lindell (Ed.) The Routledge Handbook of Urban Disaster Resilience: Integrating Mitigation, Preparedness, and Recovery Planning (1st ed.) New York, NY: Routledge. ISBN-13: 978-1138886957

Sansom, G. and Portney, K. "Integrating Human Health into Urban and Transport Planning: A Framework." Sustainable Cities, Policies, and Health. Springer, 2018. ISBN 978-3-319-74983-9

PROJECT REPORTS

Woodruff, Sierra; Bowman, Ann; Feiock, Richard; Hannibal, Bryce; Kang, Ki Eun; Oh, Jeongmin; **Sansom, Garrett** (2020). Resilience in U.S. Cities: A survey of policies & programs. Available electronically from <https://hdl.handle.net/1969.1/189324>.

Sansom, G. Masterson, J. (2016) "Improving Neighborhood Capacity through citizen science." EPA Environmental Justice Program – Report

Sansom, G. Sansom, L. (2013) Texas Water Issue Briefs Series: "Economic Impact of Drought in Texas." Meadows Center for Water and the Environment. Available at <http://www.meadowscenter.txstate.edu/Research/Reports/IssueBriefs.html>

Sansom, G. Patolo, N. (2013) Texas Water Issue Briefs Series: "Non-Point Source Pollution and Watershed Management." Available at <http://www.meadowscenter.txstate.edu/Research/Reports/IssueBriefs.html>

Patolo, N. **Sansom, G.** (2013) Texas Water Issue Briefs Series: "Drought Policy and Contingency Planning." Available at <http://www.meadowscenter.txstate.edu/Research/Reports/IssueBriefs.html>

Patolo, N. **Sansom, G.** (2013) Texas Water Issue Briefs Series: "Fracking 101." Available at <http://www.meadowscenter.txstate.edu/Research/Reports/IssueBriefs.html>

Sansom, G. (2013) Texas Water Issue Briefs Series: "Coastal Water Management in Texas." Available at <http://www.meadowscenter.txstate.edu/Research/Reports/IssueBriefs.html>

Chamberlain, A. Beckcom, C. Lagard, D. **Sansom, G.** Dziekan, K. Marbach, L. Sansom, L. Herron, N. Eley, R. Stover, S. Birdsong, T. (2012). Texas Outdoor Recreation Plan 2012. Recreation Grants State Parks Division. TPWD Publication. Available at:

http://www.tpwd.state.tx.us/business/grants/pwd_rp_p4000_1673_TORP.pdf

PEER REVIEWED PRESENTATIONS

Parras, J., Hidalgo, N., Newman, G., & **Sansom, G.** (2021) "Building Resilient Communities to Protect Against Exposure to Hazardous Substances: Multidisciplinary Engagement and Partnerships with the Superfund Researchers" National Institute of Environmental Health Sciences - Superfund Annual Meeting. Keynote

Woodruff, S. Portney, K. **Sansom, G.** Hannibal, B. Feiock, R. (2020) "Comparison of Resilience Policies and Programs Across U.S. Cities" the 4th Annual Local Governance and Sustainability Conference - Southern Political Science Association (SPCA) San Juan, Puerto Rico.

Woodruff, S. Portney, K. Hannibal, B. **Sansom, G.** Feiock, R. (2019) "Resilience Policies and Programs in 101 U.S. Cities." Resilience Rising Research Symposium. Texas A&M University, College Station, TX.

Newman, G. **Sansom, G.** Rusyn, I. (2019) "Resilience through Regeneration: Enhancing Resiliency with Engagement-based Green Infrastructure Provisions." Resilience Rising Research Symposium. Texas A&M University, College Station, TX.

Sansom, G. (2019) "Utilizing Community Engagement to Improve Public Health." Panelist – Nordic Geographers Meeting – Health and Sustainability. Norway, Trondheim

Sansom, G. (2018) "How Transdisciplinary Teams, Participatory-Based Research, and Community Engagement Work to Improve Outcomes and Build Local Capacity for Hazard Resilience" Panelist - XIX ISA World Congress of Sociology, Toronto Canada

Horney, J. Gharibeh, N. Cooper, J. **Sansom, G.** Hoque, A. Kirsch, K. (2018) "Empowering learners through locally-defined research: How the Institute for Sustainable Communities is integrating teaching, research, and service." Panelist - Transformational Teaching and Learning Conference, Texas A&M University, College Station, TX.

Sansom, G. (2018) "Population-Based Studies before, during, and after Emergencies—Building Resilience in Coastal Communities through an Engagement Framework." Society of Toxicology (SOT) Conference, San Antonio, TX.

Horney JA, Casillas G, **Sansom G**, Stone K, McDonald T. (2018) "Disasters and Environmental Vulnerability: Partnering to Measure Exposure to Hazardous Chemicals after Hurricane Harvey." NACCHO Public Health Preparedness Summit, Atlanta, GA.

Sansom, G. (2018) "Stakeholder and Engagement – San Antonio Partnerships." Organizer and Research Support Team – Water Energy Food Nexus Research Group Texas A&M University, San Antonio, TX.

Arellano, Y. **Sansom, G.** Johnston, J. Juarez, Z. Gutschow, W. Cortez, L. Laumbach, R. Baptista, A. (2017) "Leveraging Scientific Research for Community Action: Health Impacts and Goods Movement." Panelist - Moving Forward Network Conference. Los Angeles, CA.

Sansom, G. (2017). "Human Dimensions of Water Resources Management – Utilizing Engaged Community Members for Improving Public Health" UCOWR/NIWR Annual Conference - Water in a Changing Environment. Fort Collins CO

Sansom, G. (2017). "How Interdisciplinary Research and Community Engagement Work to Build Resilience" National Conference and Global Forum: Integrating Environment and Health. Washington DC

Sansom, G. (2016). "Social Capital and Disaster Resilience." Panelist - Natural Hazards Workshop. Boulder CO

Sansom, G. (2015). "Creating Citizen Scientists - Water Sampling Training in Houston Neighborhood." Presented to the Resilience and Climate Change Cooperative Project (RCCCP). Texas A&M University, College Station TX

INVITED TALKS

Sansom, G. (2019) "Project-Based Learning and Creating Future Scientists." Furr High School, Houston, TX,

Rusyn, I. Chiu, W. **Sansom, G.** (2019) "Texas A&M Superfund Center: General Overview and GBF Collaboration" Galveston Bay Foundation - Clear Lake, TX

Sansom, G. (2019) "Building Local Resilience to Natural and Anthropogenic Hazards." SPH Environmental and Occupational Health Industry Advisory Board

Sansom, G. (2019) "Building Resilience: The Case for Houston." Jones Futures Academy, Houston, TX, 4/4/2019

Sansom, G. (2019) "Creating the Future Generation of Health Professionals: Citizen Scientist and High School Engagement" Panelist. Spark! PK-12 Engineering Education Outreach. Texas A&M University, College Station, TX.

Sansom, G. (2019) "Utilizing Community Engagement to Improve Public Health" Workshop Presentation. STEM-4-Innovation Conference. Texas A&M University, College Station, TX.

Sansom, G. (2018) "Environmental and Public Health Impact of the Intercontinental Terminals Company Petrochemical Fire In Houston, TX" Environmental Toxicology, College Station, TX.

Sansom, G. (2017). "Participatory- Based Science for Improving Local Capacity." Presented to HISD Jones Futures Academy, Houston, TX.

Sansom, G. (2015). "Participatory- Based Water Sampling Training." Presented to the Green Ambassadors at Furr High School, Houston, TX.

Sansom, G. (2015). "Training Citizens in Survey Methods" Presented to the Green Ambassadors at Furr High School, Houston, TX.

Sansom, G. (2013). "Global Decline in Sperm Count/Quality – the Evidence So Far" Presented to the Student Epidemiology Organization Journal Club. Texas A&M School of Public Health, College Station TX

Sansom, G. (2012). "Understanding Publication Bias – Examples in the Literature" Presented to the Student Epidemiology Organization. Texas A&M School of Public Health, College Station TX

GRANTS

The National Academies of Sciences Engineering and Medicine (NASEM) "Development of Gulf Coast Resiliency Management Plan Using Sentinel Species and Natural Infrastructure." December 1, 2020- December 31, 2023 (\$420,495) - Co-Investigator

The National Academies of Sciences Engineering and Medicine (NASEM). Early-Career Gulf Coast Research program. September 1, 2020- August 31, 2022 (\$76,000) - *Principal Investigator*

National Institute of Environmental Health Sciences - Internal Pilot Grant. "Assessing creosote exposure and health outcomes within a confirmed cancer cluster in two Houston neighborhoods" June 1, 2020, August 1, 2021 (\$22,000) - *Principal Investigator*

United States Environmental Protection Agency (EPA). STAR Grant. "Engaging the Galena Park Community to Build Resilience to Excess Industrial Pollutant Releases after Hurricanes and Floods in Greater Houston" September 1, 2020- August 31, 2023 (\$799,928) - *Co-Investigator*

National Science Foundation (NSF). "Reducing the Human Impacts of Flash Floods: Development of Microdata and Causal Model to Inform Mitigation and Preparedness." September 1, 2019 - August 31, 2022 (\$350,000) - *Co-Investigator*

National Institute of Environmental Health Sciences 1P42ES027704-01, "Comprehensive Tools and Models for Addressing Exposure to Mixtures During Environmental Emergency-Related Contamination Events," April 1, 2017 – March 31, 2022 (Total award: \$9,747,536) – *Co-Investigator of Community Engagement Core* (Total award for Community Engagement Core: \$684,906)

SPH Delta Omega Research Enhancement and Development Initiative (REDI), Advancing the Measurement of Urban Resilience: A Resilient City Policy Index. June 1, 2018 – January 1, 2020 (\$25,000) - *Principal Investigator – completed*

United States Environmental Protection Agency (EPA) Environmental Justice Small Grants Program (\$20,000). Funded through the Texas Environmental Justice Advocacy Services (tejas) "Manchester Disaster Preparedness Collaborative." – *completed*

MEDIA

"Health at the Nexus of the Water Insecurity" Texas Water Resource Institute <https://twri.tamu.edu/publications/txh2o/2020/winter-2020/health-at-the-nexus-of-water-insecurity/> Spring, 2020

Texas Water Resource Institute - "Lead in the Water, Texas A&M researchers studying lead in poor neighborhoods" <https://twri.tamu.edu/publications/txh2o/2020/winter-2020/lead-in-texas-water/> Spring, 2020

Texas Water Resource Institute - "Pervasive Problems. Texas Researchers are on the task of removing long-lasting PFAS from Environment"
<https://twri.tamu.edu/publications/txh2o/2020/winter-2020/pervasive-problem/> Spring, 2020

Research at TAMU "Areas hit by Hurricane Harvey report surprising scores for mental health."
<https://research.tamu.edu/2020/03/24/areas-hit-by-hurricane-harvey-report-surprising-scores-for-mental-health/> March 24, 2020

Vital Record "Combining Forces to Solve Environmental Problems"
<https://vitalrecord.tamhsc.edu/combining-forces-to-solve-environmental-problems/> February 13, 2020

ASPPH - "Texas A&M: Study Brings Together Disciplines in an Effort to Remedy Environmental Issues in Houston Neighborhood" <https://www.aspph.org/texas-am-study-brings-together-disciplines-in-effort-to-remedy-environmental-issues-in-houston-neighborhood/> February 4, 2020

Vital Record. "Focusing on the Human Impacts of Flash Floods."
<https://vitalrecord.tamhsc.edu/focusing-on-the-human-impacts-of-flash-floods/> September, 2019

The Battalion – Texas A&M University Press "A&M experts discuss rare infection that led to death of Texas native." http://www.thebatt.com/news/a-m-experts-discuss-rare-infection-that-led-to-death/article_a8f81a48-e0b7-11e9-8ddf-83da9a3cb942.html September, 2019

Association of Schools & Programs of Public Health "Texas A&M: Researchers Study Race and Gender Effects on Environmental Risk Perception" <https://www.aspph.org/texas-am-researchers-study-race-and-gender-effects-on-environmental-risk-perception/> September, 2019

Texas A&M University *Health Talk Podcast* "Researching Environmental Toxins in Houston Texas." <<https://vitalrecord.tamhsc.edu/podcast/researching-environmental-toxins-in-houston/>> August, 2019

CBS/KBTX News *Focus at Four* "Bryan public housing receiving \$1 million grant to remove lead paint" < <https://www.kbtx.com/content/news/Bryan-public-housing-receiving-million-dollar-federal-grant-557905941.html> > August, 2019

Vital Record. "Not Black and White: Differences in Perceived Risk"
<https://vitalrecord.tamhsc.edu/not-black-and-white-differences-in-perceived-risk/> August, 2019

CBS/KBTX News *Focus at Four* "A&M researcher finds lead in drinking water along Houston Ship Channel." <https://www.kbtx.com/content/news/AM-researcher-finds-lead-in-the-drinking-water-along-the-Houston-Ship-Channel-526203621.html> August, 2019

Texas A&M Today *Featured Research* "Lead in Drinking Water: Older homes with lead pipes, in conjunction with the chemicals used during the water purification process, underlie problem" < <https://today.tamu.edu/2019/08/02/study-finds-lead-in-drinking-water-in-some-eastern-houston-homes/> > August, 2019

Vital Record. "Study finds lead in drinking water in some eastern Houston homes
<<https://vitalrecord.tamhsc.edu/study-finds-lead-in-drinking-water-in-some-eastern-houston-homes/>> August 2019

Vital Record. "Understanding the Implications of Deer Park."
<<https://vitalrecord.tamhsc.edu/understanding-the-implications-of-deer-park/>> April 2019

Sojourners. "Houston Neighborhood Shows Who Bears the Brunt of Climate Change."
<<https://sojo.net/articles/houston-neighborhood-shows-who-bears-brunt-climate-change>>
January 2019

The Eagle. "Texas A&M students unveil Bryan-College Station air quality findings"
<https://www.theeagle.com/news/local/texas-a-m-students-unveil-bryan-college-station-air-quality/article_5fda50ee-525b-58e1-898f-3c4a2aeb10ed.html> November 2018

The Guardian. "Sewage, debris, mosquitoes: flood waters increase health risk for Harvey victims." <<https://www.theguardian.com/us-news/2017/aug/30/health-implications-texas-floods-hurricane-harvey>> August 2017