

Garett Thomas Sansom, DrPH, MPH

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EDUCATION

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 – 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*

TEACHING EXPERIENCE

Texas A&M University School of Public Health, College Station, TX (2/2018-present)
Research Assistant Professor
Teach courses in the Environmental and Occupational Health Department:
SOPH 680 EOH Capstone

Texas A&M University College of Architecture, College Station, TX (1/2017-present)
Professor of Record (Research Instructor)
Teach courses on health and planning, including:
PLAN 634. Environmental Health Policy and Planning
URPN 371. Environmental Health Planning and Policy

Texas A&M School of Public Health, College Station, TX (5/2012-5/2015)
Graduate Teaching Assistant
Assisted students in understanding theories and applications of epidemiology and biostatistics. Courses included:
PHEB 600. Introduction to Epidemiology
PHEB 605. Epidemiologic Methods I
PHEB 605. Epidemiologic Methods I (Online)
PHEB 609. Categorical Data Analysis
PHEB 610. Epidemiologic Methods II
PHEB 610. Epidemiologic Methods II (Online)

RESEARCH AND PROFESSIONAL EXPERIENCE

Texas A&M University School of Public Health, College Station, TX (2/2018-present)
Research Assistant Professor

- Established research infrastructure

- Pursue external and internal funding
- Provide guidance to TAMU students

Institute for Sustainable Communities (TAMU), College Station, TX (5/2016 – Present)

Associate Director

- Assist in the development and leadership of staff members and students in order to conduct high quality scholarship and assist community partnerships.
- Provided training, assistance, and guidance on epidemiologic methods and statistical analysis.
- Coordinated and conducted interdisciplinary environmental and public health research in marginalized communities in Texas.

Texas A&M School of Public Health, College Station, TX (5/2016 – 1/2018)

Postdoctoral Researcher

- Advisor: Jennifer Horney, PhD
- Topic: Disaster and Environmental Vulnerability Project
- Performed environmental sampling (air, household particulates, and soil), conducted health surveys, and provided statistical assistance.

Resilience and Climate Change Cooperative Project (TAMU) (5/2015 – 5/2016)

Graduate Research Assistant

- Part of an interdisciplinary team dedicated to addressing the physical and social vulnerabilities of coastal urban centers.
- Conducted participatory-based research with advocacy groups, environmental organizations, and local citizens in the Harrisburg/Manchester super neighborhood in Houston, TX.
- Performed population based research on the mental and physical health of members in the neighborhood of Manchester in Houston, TX.

Texas A&M Health Science Center, College Station, TX (9/2011 – 9/2013)

Graduate Research Assistant

- Member of research team analyzing nutrition and health outcomes among poor and rural populations in Texas.
- Created databases corresponding with research surveys.
- Input hard data into digital format.

Meadows Center for Water and the Environment, San Marcos, TX (2/2013 – 8/2013)

Grants Specialist

- Performed scientific literature review pertaining to hydrological sciences focusing on the state of Texas and public health.
- Wrote on topics covering the legislative history of water rights in Texas, novel water conservation techniques, and technological advances with water distribution in the state targeting policy makers.
- Wrote the Texas Water Issue Briefs for the Meadows Center website to help inform the public on important matters for the state.

Brazos Valley Council of Governments, Bryan, TX (6/2011 – 8/2011)

Intern

- Analyzed data trends of various funded agencies to ensure compliance.
- Acted as liaison between agencies, funding sources, and individuals seeking assistance.
- Interpreted data about the HIV Administrative Services department and wrote the 3-year evaluation.

American Cancer Society, Austin, TX (12/2006 – 8/2008)

Patient Navigator / Cancer Information Specialist

- Researched and located organizations to offer assistance to patients in financial, emotional, or medical need.
- Utilized a large local database, collaborated with local hospitals and non-profit organizations, and researched on the Internet.
- Provided current information about cancer prevention, treatment and follow-up care by researching databases for the appropriate articles and journals.

PEER-REVIEWED PUBLICATIONS

Sansom, G. Stone, K. Horney, JA. "Investigating Injuries Seen in Area Physician Offices after a Fertilizer Plant Explosion" Texas Journal of Public Health 2017 – *in press*

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 – *in press*

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>

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 2017 doi: 10.1007/s40518-017-0077-1

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

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

Trueblood, A. **Sansom, G.** "Do Fracking Sites Increase Traffic Crashes in Texas?" Texas Journal of Public Health 2015 Vol. 67 Issue 3

IN PREPARATION PUBLICATIONS

Sansom, G., Hannibal, B. Portney, K. "Disparate Access to Nutritional Food; Race and Equity in the United States."

Stone, K. **Sansom, G.** McDonald, T. Horney, JA. "Disasters and Environmental Vulnerability (DEV) Project: Environmental Justice in the Manchester Neighborhood of Houston, Texas"

Sansom, G. Horney, JA. "Environmental Justice and Health: Community Assessment of Houston Residents"

UNDER REVIEW PUBLICATIONS

Sarah Schneider, Peter Nghiem, Cynthia Balog-Alvarez, Katherine Hulbert, Taylor Gourley, **Garett Sansom**, and Candice Brinkmeyer-Langford. "Brain-derived neurotropic factor (BDNF) is preferentially upregulated in left ventricle of dogs with golden retriever muscular dystrophy" Neuromuscular Disorders

Sansom, G. Stone, K. Kirsch, K. Casillas, G. Horney, JA. "Polycyclic Aromatic Hydrocarbons in Residential Dust Collected in the Manchester Neighborhood of Houston, Texas" Science of the Total Environment

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 Health, Risk & Society - *revise and resubmit*

BOOK CHAPTERS

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

Horney, JA and **Sansom, G.** "Emergency Preparedness and Response Planning." In WG Peacock and S Van Zandt (Eds.) Planning for Disaster Resilience Routledge - *in press*

Horney, JA. and **Sansom, G.** "Planning for Disaster Resilience." Routledge – *in press*

PROJECT REPORTS

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

PROFESSIONAL PRESENTATIONS, PRECEEDINGS, & CONFERENCES

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

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

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

SPH Delta Omega Research Enhancement and Development Initiative (REDI),
Advancing the Measurement of Urban Resilience: A Resilient City Policy Index. June 1, 2018 - June 1, 2019 (\$25,000) - Principal Investigator

National Science Foundation - Leading Engineering for America's Prosperity, Health, and Infrastructure (LEAP HI). *Project Manager* - July 1, 2018-July 1, 2021

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*

VOLUNTEER EXPERIENCE

Shriner's Hospital for Children 2009-2010
(40 hours)

- Assisted parents and staff in watching and supervising children patients.
- Entertained patients who have been hospitalized for many months.
- Aided nurses during procedures or dressing changes by distracting the patient with games and other forms of entertainment.

Brigham and Women's Hospital
2008 (10 hours)

- Offered assistance for non-ambulatory patients entering or leaving the hospital.
- Transported non-medical devices to and from rooms.
- Gave directions to visitors.

AmeriCorp (During various events) 2006-2008
(20 hours)

- Assisted in classroom activities for "at-risk youth" during an extra curriculum activity focusing on earth sciences.
- Taught an afterschool "Outdoor Adventure" event cosponsored by Texas Parks and Wildlife.
- Helped the primary teacher prepare for class by assisting in projects and events.

TRAININGS AND CORE COMPETENCIES

- ArcGIS
- STATA
- SAS
- Technical writing and editing
- Microsoft Office applications (word, excel, power point, access)
- Base Camp Operations and Medical Response Training (Emergency Flu Pandemic Preparedness) (16 hour training)
- TAMHSC Research Symposium
- Biotechnology and Ethics Debate
- Medical Ethics and Natural Law Colloquium

HONORS AND AFFILIATIONS

- Water Energy Food Nexus Research Group Texas A&M University 2016-present
- Student Research Liaison - Texas A&M School of Public Health 2013-2015
- Epidemiology Student Organization – Member 2010-2016
- St. Edward’s University Leaders in Politics – Project Coordinator 2002-2006
- St. Edward’s University Environmental Club – Officer 2004-2006
- St. Edward’s Lacrosse Team 2004-2006
- Service award scholarship 2004-2006
- Placed first in state “Ethics in Business” debate 2005
- St. Edward’s University Coffee Talk – President 2003-2004
- Dean’s List 2005-2006
- Dean’s List honorable mention 2003-2004