**Curriculum Vitae**

**Arbor J. L. Quist**

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EDUCATION

**University of North Carolina,** *Chapel Hill, NC*. PhD, 2021. Epidemiology.

 Dissertation: “Hurricane Flooding, Industrial Hog Operations, and Acute Gastrointestinal Illness in North

 Carolina”

 Primary advisor and chair: Lawrence Engel, PhD

**University of North Carolina,** *Chapel Hill, NC*. MSPH, 2017. Epidemiology.

 Thesis: “Poor Housing Quality in New York City and Its Association with Toddler Cognitive Development”

 Master’s advisor: Stephanie Engel, PhD

**Wellesley College,** *Wellesley, MA*. BA, 2012. Majors: Biology, Religion.

RESEARCH AND PROFESSIONAL EXPERIENCE

**Current NIEHS T32 Postdoctoral Research Fellow**, Department of Population and Public Health Sciences, University of Southern California, Los Angeles, CA

 Mentor: Jill Johnston, PhD

 *Partnered with community leaders to design and conduct rapid health surveys to assess the health*

*symptoms of a hydrogen sulfide crisis in Carson, CA and analyzed emergency department data to*

*understand the related health effects; conducted focus groups and analyzed qualitative data to*

*understand residents’ experiences during the malodor crisis; oversaw the recruitment of*

*community-engaged study cohort; mentored undergraduate and masters students; investigated the*

*groupings of metals in toenails from participants living near an oil well using non-negative matrix*

*factorization; assessed the association between proximity to oil drilling and blood pressure; wrote*

*grants and papers.*

**2021-2022 Independent Contractor**

 Earthjustice

 Mentor: Jill Johnston, PhD

 *Conducted analyses of the racial and economic disparities of industrial animal operations’*

*locations in North Carolina, Iowa, and California; wrote a report included in a petition to the EPA.*

**2019-2021 Epidemiology PhD Candidate**

University of North Carolina, Chapel Hill, NC

Dissertation Chair: Lawrence Engel, PhD

Committee Members: Lawrence Engel, Tim Wade, David Richardson, Paul Delamater, Mike Fliss

*Examined the relationship between hurricane flooding in North Carolina and gastrointestinal illness emergency department visits, the relationship between proximity to industrial hog operations and gastrointestinal illness, and the interaction between hurricane flooding and industrial hog operation proximity on gastrointestinal illness using controlled interrupted time series methods, inverse probability of treatment weighting, and inverse distance weighting.*

**2019-2021 Community Engagement Fellow**

Carolina Center for Public Service, University of North Carolina, Chapel Hill, NC

 Mentor: Courtney Woods, PhD

*Worked with the Robeson County Disaster Recovery Coalition to build a Mold Education and Resource Center to provide residents with tools to help prevent mold growth while they await professional remediation, especially after hurricane flooding; conducted interviews and focus groups with community members and key informants to inform the Mold Education and Resource Center; wrote small grants for funds to purchase mold remediation tools and pay community partners.*

**2019-2021 Graduate Research Assistant**

University of North Carolina, Chapel Hill, NC

 Mentor: Anissa Vines, PhD

*Created composite measures of life course racial discrimination, life course socioeconomic position, and life course trauma; examined the association of these measures with depressive symptoms and uterine fibroid incidence; supervised a summer masters student’s internship and mentored a PhD student.*

**2018-2020 Independent Contractor**

Environmental Defense Fund, Houston, TX

Mentors: Elena Craft, PhD, Grace Tee Lewis, PhD, Cloelle Danforth, PhD

*Quantified emissions after Hurricane Harvey, analyzed excess emissions from State of Texas Environmental Electronic Reporting System (STEERS) data, mapped toxic release inventory (TRI) data and STEERS data in ArcGIS. Reviewed literature on hematological effects of benzene exposure and developed evidence-based recommendations for industrial releases of benzene in preparation for future disasters.*

**2019-2020 Graduate Research Assistant**

University of North Carolina, Chapel Hill, NC

 Mentor: Lawrence Engel, PhD

*Partnered with American Indian Mothers to conduct health surveys and analyze paired well water and urine samples using targeted and non-targeted chemical analyses to better understand environmental health issues in Robeson County, especially after hurricane flooding; used hospital discharge data to compare rates of selected health conditions in Robeson County with the rest of North Carolina.*

**2017-2019 NIEHS T32 Pre-doctoral Trainee**

University of North Carolina, Chapel Hill, NC

 Mentor: Lawrence Engel, PhD

*Examined the effect of total hydrocarbon exposure from the 2010* Deepwater Horizon *oil spill on neurological function in a cohort of clean-up workers.*

**2016-2017 NIEHS T32 Pre-doctoral Trainee**

University of North Carolina, Chapel Hill, NC

 Mentor: Stephanie Engel, PhD

*Created a housing quality index and analyzed the effect of housing quality on child neurodevelopment.*

**2016 Summer Graduate Research Fellow**

National Cancer Institute, Rockville, MD

Mentors: Mary Ward, PhD and Rena Jones, PhD

*Estimated the association between nitrate in drinking water and nitrite and nitrate in diet and pancreatic cancer using Cox regression.*

**2015-2016 Graduate Research Assistant**

UNC Division of Infectious Disease, Chapel Hill, NC

Mentor: David Rosen, MD, PhD

*Conducted a scoping literature review and analysis of health outcomes in incarcerated populations to identify main research topic areas, geographic areas of research, and top funding topics.*

**2015 eHealth Project Coordinator**

VA Boston Healthcare System, Boston, MA*;* Mentor: Steven Simon, MD, MPH

*Managed an eHealth medication reconciliation project, wrote manuscripts, obtained and maintained IRB approval, assisted in preparing grants*.

**2013-2014 Research Assistant II**

Brigham and Women’s Hospital, Boston, MA

Mentor: Gordon Schiff, MD

*Assisted in managing a multi-site FDA-funded study, analyzed large quantitative and qualitative datasets relating to medication errors, reviewed patient charts, drafted white paper report, created data posters and presentations, presented at national conferences and to the FDA, assisted in developing data analysis tools and taxonomy related to computerized order entry medication errors.*

PUBLICATIONS

**Quist AJL,** Hovav A, Silverman A, Shamasunder B, Johnston JE. Residents’ experiences during a hydrogen sulfide crisis in Carson, California. *Environmental Health,* 2024; *23:31*. <https://doi.org/10.1186/s12940-024-01071-5>

**Quist AJL**, Johnston JE. Respiratory and Nervous System Effects of a Hydrogen Sulfide Crisis in Carson, California, USA. *Science of the Total Environment*, 2024; 906:167480; <https://doi.org/10.1016/j.scitotenv.2023.167480>.

**Quist AJL**, Johnston JE. Malodors as environmental injustice: Health symptoms in the aftermath of a hydrogen sulfide emergency in Carson, California, USA. *Journal of Exposure Science And Environmental Epidemiology*, 2023; <https://doi.org/10.1038/s41370-023-00561-x>.

Johnston JE, **Quist AJL**, Navarro S, Farzan SF, Shamasunder B. Cardiovascular Health and Proximity to Urban Oil Drilling in Los Angeles, California. *Journal of Exposure Science And Environmental Epidemiology*, 2023; <https://doi.org/10.1038/s41370-023-00589-z>.

Danforth C, Portier C, Ensor KB, Hopkins L, Evans B, **Quist AJL**, McGraw KE, Craft E. Development and demonstration of a data visualization platform of short-term guidelines for ambient air levels of benzene during disaster response in Houston, Texas*.* *Integrated Environmental Assessment and Management*, 2023; <https://doi.org/10.1002/ieam.4814>.

**Quist AJL**, Van Horne YO, Farzan SF, Johnston JE. Metal exposures in residents living near an urban oil drilling site in Los Angeles, California. *Environmental Science & Technology*, 2022; 56:15981-15989; <https://doi.org/10.1021/acs.est.2c04926>.

**Quist AJL**, Holcomb DA, Fliss MD, Delamater PL, Richardson DB, Engel LS. Exposure to Industrial Hog Operations and Gastrointestinal Illness in North Carolina, USA. *Science of the Total Environment*, 2022; 830:154823; <https://doi.org/10.1016/j.scitotenv.2022.154823>.

**Quist AJL**, Fliss MD, Wade TJ, Delamater PL, Richardson DB, Engel LS. Hurricane Flooding and Acute Gastrointestinal Illness in North Carolina. *Science of the Total Environment*, 2022; 809: 151108; <https://doi.org/10.1016/j.scitotenv.2021.151108>.

Holcomb DA, **Quist AJL**, Engel LS. Exposure to Industrial Hog and Poultry Operations and Urinary Tract Infections in North Carolina, USA. *Science of the Total Environment*, 2022; 853:158749;

<https://doi.org/10.1016/j.scitotenv.2022.158749>.

**Quist AJL**, Han X, Baird DD, Wise LA, Wegienka G, Giscombe C, Vines AI. Life Course Racism and Depressive Symptoms among Young Black Women. *Journal of Urban Health*, 2022; 99:56-66. <https://doi.org/10.1007/s11524-021-00574-7>.

Patel O, **Quist AJL,** Martin CL, Wise L, Wegienka G, Baird D, Wise LA, Vines A. Life-course Mobility in Socioeconomic Position and High Depressive Symptoms among Young Black Women: The SELF Study. *Women’s Health Issues*, 2022; 33:266-272; <https://doi.org/10.1016/j.whi.2022.11.010>.

**Quist AJL**, Rohlman DS, Kwok RK, Stewart PA, Stenzel MR, Blair A, Miller AK, Curry MD, Sandler DP, Engel LS. Deepwater Horizon Oil Spill Exposures and Neurobehavioral Function in GuLF STUDY Participants. *Environmental Research*, 2019; 179:108834; <https://doi.org/10.1016/j.envres.2019.108834>.

**Quist AJL**, Inoue-Choi M, Weyer PJ, Anderson KM, Ward MH, Jones RR. Ingested nitrate and nitrite, disinfection by-products, and pancreatic cancer risk in postmenopausal women. *International Journal of Cancer*, 2018; 142:251-261; <https://doi.org/10.1002/ijc.31055>.

Quist-Nelson J, Crank A, Oliver EA, Kim CH, Richard S, George B, Chan J, **Quist AJL**, Berghella V, Roman A. The compliance of a patient safety bundle for management of placenta accrete spectrum. *Journal of Maternal-Fetal & Neonatal Medicine*, 2019; 34:2880-2886; <https://doi.org/10.1080/14767058.2019.1671349>.

# Hickman TT, Quist AJL, Salazar A, Amato AG, Wright A, Volk LA, Bates DW, Schiff GD. Outpatient CPOE orders discontinued due to 'erroneous entry': prospective survey of prescribers' explanations for errors. *BMJ Quality & Safety.* 2018; 27:293-298; <https://doi.org/10.1136/bmjqs-2017-006597>.

**Quist AJL,** Hickman TT, Amato AG, Volk LA, Salazar A, Robertson A, Wright A, Bates DW, Phansalkar S, Schiff GD. An analysis of variations in the display of drug names in computerized prescriber order entry systems. *American Journal of Health-System Pharmacy.* 2017; 74:499-509; <https://doi.org/10.2146/ajhp151051>.

Amato MG, Salazar A, Hickman TT, **Quist AJL**, Volk LA, Wright A, McEvoy D, Galanter WL, Koppel R, Loudin B, Adelman J, McGreevey JD, Smith DH, Bates DW, Schiff GD. Computerized prescriber order entry–related patient safety reports: analysis of 2522 medication errors*. Journal of American Medical Informatics Association.* 2017; 24:316-22; <https://doi.org/10.1093/jamia/ocw125>.

Hitchcock AC, Connolly E, Darakananada K, Jeong JW, **Quist AJL**, Robbins A, Ellerby DJ. Locomotor and energetic consequences of behavioral thermoregulation in the sanguivorous leech *Hirudo verbana*. *Journal of Thermal Biology.* 2017; 65:1-7; <https://doi.org/10.1016/j.jtherbio.2017.01.007>.

Hitchcock AC, Chen T, Connolly EM, Darakananda K, Jeong JW, **Quist A,** Robbins AB, Ellerby DJ. Trade-offs between performance and variability in the escape responses of bluegill sunfish. *Biology Open.* 2015; 4:743-51; <https://doi.org/10.1242/bio.201511577>.

Petersen AM, Chin W, Feilich KL, Jung G, **Quist JL**, Wang J, Ellerby DJ. Leeches run cold, then hot. *Biology Letters.* 2011;7:941-3; <https://doi.org/10.1098/rsbl.2011.0320>.

**Submitted Manuscripts:**

**Quist AJL,** Holloman DE, Cowan KN, Campbell C, McEachern P, Walsh A, Woods CG. Assessing Post-Hurricane Mold Exposure Concerns in Eastern North Carolina. (Under review).

PRESENTATIONS

**Invited Talks:**

**Quist AJL**. Partnering with Communities in Environmental Disaster Research. Invited symposium speaker, Microbes and Social Equity. Symposium 4: Community Engagement and Collaboration (virtual), July 21, 2022.

**Quist AJL**. Hurricane Florence Flooding and Acute Gastrointestinal Illness in North Carolina. Invited speaker at Occupational and Environmental Epidemiology Branch Meeting. North Carolina Department of Health and Human Services, Division of Public Health, Branch of Occupational and Environmental Epidemiology, September 17, 2020.

**Quist AJL**, Holloman D, Walsh A. Building research partnerships to assess health effects of hurricanes: Creating the Mold Education Resource Center. Invited oral presentation in “Special Session: Multilevel Resistance: Triangulating Relationships Between Resilience and Vulnerability After Disasters” at Annual Meeting of the Southeastern Division of American Association of Geographers, November 25, 2019.

**Conference Oral Presentations:**

**Quist AJL**, Hovav A, Shamasunder B, Johnston JE. Residents’ Experiences During a Hydrogen Sulfide Emergency: A Qualitative Analysis. Oral presentation at the International Society of Exposure Science Annual Meeting, Chicago, IL, August 28, 2023.

**Quist AJL**, Johnston JE. Cardiovascular-related Emergency Department Visits During a Hydrogen Sulfide Emergency in Southern Los Angeles County, CA. Oral presentation at the International Society for Environmental Epidemiology – North American Chapter Conference, Corvallis, OR, June 20, 2023.

**Quist AJL**, Farzan SF, Navarro S, Shamasunder B, Johnston JE. Cardiovascular Health and Urban Oil Drilling in Los Angeles, California. Oral presentation at the International Society for Environmental Epidemiology – North American Chapter Conference, Corvallis, OR, June 21, 2023.

**Quist AJL**, Fliss MD, Richardson DB, Delamater PL, Engel LS. Hurricane Florence Flooding and Acute Gastrointestinal Illness in North Carolina. Oral presentation at the Annual Meeting of the International Society for Environmental Epidemiology (virtual), August 24, 2020.

**Quist AJL**, Rohlman DS, Kwok RK, Stewart PA, Stenzel MR, Sandler DP, Engel LS. Deepwater Horizon Oil Spill Exposures and Neurobehavioral Function in GuLF STUDY Participants. Oral presentation at the Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology, Ottawa, Canada, August 29, 2018.

Islam J, McClure E, Gartner D, **Quist AJL**, LeMasters K, Wilkie A, Keeler C.Zine development as a pedagogical tool for critically evaluating how social justice and epidemiology relate. Oral presentation at the American Public Health Association Annual Meeting, Philadelphia, PA, November 5, 2019.

**Conference Poster Presentations:**

**Quist AJL**, Silverman A, Ahumada J, Hasan Z, Serrano S, Shamasunder B, Johnston JE. Engaging communities to understand the effects of a hydrogen sulfide crisis. Poster presentation at the Partnership for Environmental Public Health Network Meeting, NIEHS, Durham, NC, February 20, 2024.

**Quist AJL**, Johnston JE. Muscular and nervous system emergency department visits during a hydrogen sulfide emergency in Southern Los Angeles County, CA. Moderated poster discussion/presentation at the Annual Meeting of the International Society for Environmental Epidemiology, Kaohsiung, Taiwan, September 18, 2023.

**Quist AJL**, Johnston JE. Respiratory emergency department visits during a hydrogen sulfide emergency in Southern Los Angeles County, CA. Poster presentation at the Society for Epidemiologic Research Annual Meeting, Portland, OR, June 15, 2023.

**Quist AJL**, Farzan SF, Van Horne YO, Johnston JE. Toenail metal concentrations and lung function among residents living near urban oil site. Poster presentation at the Annual Meeting of the International Society for Environmental Epidemiology, Athens, Greece, September 19, 2022.

**Quist AJL**, Murdock B, Johnston JE. Physical and Mental Health Symptoms After a Hydrogen Sulfide Disaster in Southern Los Angeles County, CA, USA. Poster presentation at the Annual Meeting of the International Society for Environmental Epidemiology, Athens, Greece, September 20, 2022.

**Quist AJL**, Fliss MD, Richardson DB, Delamater PL, Engel LS. Hurricanes, Industrial Hog Operations, and Acute Gastrointestinal Illness in North Carolina, USA. Poster presentation at the Annual Meeting of the International Society for Environmental Epidemiology, Athens, Greece, September 21, 2022.

**Quist AJL**, Holcomb DA, Fliss MD, Richardson DB, Delamater PL, Engel LS. Exposure to Industrial Hog Operations and Gastrointestinal Illness in North Carolina, USA. E-poster discussion at the Annual Meeting of the International Society for Environmental Epidemiology (virtual), August 24, 2021.

**Quist, AJL**, Holloman D, Walsh A, Campbell C, Leggette J, Woods C. Mold Education and Resource Center: A Pilot Study in Robeson County. Poster presentation at the North Carolina Environmental Justice Summit, Whitakers, NC, October 18, 2019.

**Quist AJL**, Galvez MP, Wolff MS, Engel SM. Poor housing quality in New York City and its association with toddler cognitive development. Poster presentation at Annual Meeting of Society for Epidemiologic Research, Baltimore, MD, June 20, 2018.

**Quist AJL**, Inoue-Choi M, Weyer PJ, Anderson KM, WardMH, Jones RR. Nitrate ingestion through water and diet and pancreatic cancer risk in postmenopausal women. Poster presentation at NIEHS Environmental Health Science FEST, Durham, NC, December 7, 2016.

Rosen DL, Grodensky CA, Miller AR, **Quist AJL.** An evaluation of published US correctional health research, 2005-2015. Poster at Academic and Health Policy on Conference on Correctional Health, Baltimore MD, March 17, 2016.

**Quist AJL**, Hickman TT, Salazar A, Amato M, Volk L, Wright A, Bates DW, Schiff GD. To be discontinued: CPOE medication orders discontinued with the reason being “error (erroneous entry).” Poster presentation at the Annual Symposium of American Medical Informatics Association, San Francisco, CA, November 2015.

**Quist, AJL,** Robertson A, Thach T, Volk L, Wright A, Slight S, Amato M, Salazar A, Bates DW, Schiff GD. Error-prone CPOE system functionality issues at six institutions. Poster presentation at the Annual Symposium of American Medical Informatics Association, Washington, D.C., November 17, 2014.

Thach T, Robertson A, **Quist AJL**, Volk LA, Wright A, Phansalkar S, Slight SP, Bates DW, Schiff G. A Qualitative Assessment of CPOE and Variation in Drug Name Display. Poster at the Annual Meeting of the American Medical Informatics Association, Washington, D.C., November 17, 2014.

**Quist AJL,** Robertson A, Thach T, Volk L, Wright A, Phansalkar S, Slight S, Bates DW, Schiff GD. Examining the potential for CPOE system design and functionality to contribute to medication errors. Poster presentation at the Annual Meeting of the Society for General Internal Medicine, San Diego, CA, April 24, 2014.

**Quist AJL**, Connolly E, Darakananda K, Hitchcock A, Jeong J, Robbins A, Ellerby D. Don’t swim after a large meal, crawl instead. Poster presentation at the Annual Meeting of the Society for Integrative and Comparative Biology, San Francisco, CA, January 6, 2013.

TEACHING EXPERIENCE

**University of North Carolina:**

Fall 2018 Principles of Epidemiology for Public Health Teaching Assistant

 Lead Instructor: Dr. Karin Yeatts

 35 master’s students and undergraduate students

**University of Southern California:**

Spring 2024 Seminar in Biostatistics and Epidemiology Guest Lecture, “Investigating the Health

Effects of a Hydrogen Sulfide Crisis”

Spring 2022 Environmental Impacts on the Brain Guest Lecture, “Disaster Epidemiology”

Summer 2022 Environmental Health Methodological, Guest Lecture, “Designing and Conducting

Trainings, and Teaching Enterprise Health Surveys in the Aftermath of Disasters”

Fall 2021 Introduction to Public Health Guest Lecture, “Environmental Justice and

Community-based Participatory Research”

Fall 2021 Organizing and Mobilizing Communities Guest Lecture, “Community Engaged Disaster

for Public Health Research”

GRANTS

2022-2024 NIEHS 1R21ES034720-01. Title: Health symptoms and risk perception of urban environmental justice communities after major hydrogen sulfide disaster. Role: postdoctoral researcher, helped write grant, manage project (total direct costs: $275,000).

2023-2025 NIH/NHLBI 6922-06-CH-S003. Title: Community-driven approaches to Environmental Justice and Health in the Face of the Climate Crisis in Southern California: Prioritizing Local Action for Climate Equity (PLACE Study); Role: postdoctoral researcher, helped write grant (total direct costs: $1,200,000).

2023-2024 NCI/NIEHS 3U01CA199277-09S1, City of Hope/Beckman Research Institute.

Title: Oil and Gas as Drivers of Climate Change and Health: Developing unique resources to investigate multi-level and diverse effects of exposure to oil and gas wells.

Role: postdoctoral researcher, helped write grant and analyze data (total direct costs: $650,000).

2020 Carolina Center for Public Service Disaster Recovery/Rural COVID-19 Response Grant.

 Title: Mold Education Resource Center Pilot Study. Role: PI ($5,000)

2020 North Carolina Translational and Clinical Sciences Stakeholder Engagement Voucher.

 Title: Mold Education Resource Center Pilot Study. Role: PI ($2,000 for community partners)

2019 Carolina Center for Public Service Disaster Recovery Project Grant. Title: Mold Education Resource

 Center Pilot Study. Role: PI ($5,000)

FELLOWSHIPS

2024-current International Society for Children’s Health and the Environment (ISCHE) fellow

2021-current Post-doctoral Training Grant Trainee; NIEHS T32ES013678 ($76,000/year)

2020-2021 UNC-Chapel Hill Graduate School Dissertation Completion Fellowship ($18,000)

2019 Carolina Center for Public Service Community Engagement Fellowship ($2,000)

2016-2019 Pre-doctoral Training Grant Trainee; NIEHS T32 ES007018 ($23,000/year)

HONORS AND AWARDS

2023 Rebecca James Baker Award Honorable Mention

*International Society for Environmental Epidemiology Annual Meeting*

2023, 2024 Dan Wartenberg Memorial Fund Travel Award

*International Society for Environmental Epidemiology Annual Meeting*

2019 James A. Merchant Family Scholarship

*UNC award for outstanding scholarship in environmental epidemiology*

2014 Distinguished Poster Award

 *American Medical Informatics Association Annual Symposium*

LEADERSHIP AND SERVICE

2021-current USC Environmental Health Postdoctoral Scholar Planning Committee

 *Planning events for USC Environmental Health postdoctoral scholars, including a retreat,*

*seminars on adult learning and teaching skills, and happy hours.*

2019-2021 North Carolina Well Water Working Group

*Worked with other well water researchers to start a working group of scientists, lawyers, and activists who do well water-related work in North Carolina; created listserv and website; help to coordinate quarterly meetings to encourage collaboration and spread knowledge.*

2017-2021 Epidemiology and Justice Group

*Worked with other graduate students to form this group for peer teaching, department advocacy, and research support in social justice-focused epidemiology; coordinate seminars, journal clubs, discussions, and actions at the intersection of epidemiology and social justice; created a “Justice-orientated Epidemiology” syllabus.*

2018-2019 Environmental Epidemiology Seminar and Journal Club

*Coordinated weekly seminars and monthly journal clubs in environmental epidemiology.*

OTHER EXPERIENCE AND PROFESSIONAL MEMBERSHIPS

2024- Ad hoc reviewer for *Journal Of Exposure Science And Environmental Epidemiology*

2023- Ad hoc reviewer for *Environmental Health Perspectives*

2023- Ad hoc reviewer for *Nature Water*

2022- Ad hoc reviewer for *The Lancet Planetary Health*

2020- Ad hoc reviewer for *Occupational and Environmental Medicine*

2022- Member, International Society of Exposure Science (ISES)

2018- Member, International Society for Environmental Epidemiology (ISEE)

CERTIFICATES AND TRAININGS

Effective Mentoring. UNC-Chapel Hill Graduate School, Chapel Hill, NC. March 23-April 13, 2020.

Mixed Methods Workshop. H.W. Odum Institute, Chapel Hill, NC. January 29-31, 2020.

Disaster Research Training Workshop. Texas A&M TEEX, College Station, TX. December 17-18, 2018.

Introduction to Focus Groups. H.W. Odum Institute, Chapel Hill, NC. November 29, 2018.

MEDIA APPEARANCES

Liu, Teresa. Local emergency department visits by Carson residents rise 24% after 2021 Dominguez Channel incident. October 11, 2023. *Daily Breeze*. <https://www.dailybreeze.com/2023/10/11/local-emergency-department-visits-rise-24-after-2021-dominguez-channel-incident/>

Martyn, Amy. The Explosive Legacy of the Pandemic Hand Sanitizer Boom. June 1, 2023. *WIRED*. <https://www.wired.com/story/the-explosive-legacy-of-the-pandemic-hand-sanitizer-boom/>

Evains, Tyler Shaun. USC researchers looking at impacts of hydrogen sulfide on El Segundo residents*.* November 26, 2022. *Daily Breeze.* <https://www.dailybreeze.com/2022/11/26/usc-researchers-looking-at-impacts-of-hydrogen-sulfide-on-el-segundo-residents/>

Cronin, Dana. Can a Court Compel the EPA to Protect Communities of Color From CAFO Pollution? October 26, 2022. *Civil Eats*. <https://civileats.com/2022/10/26/can-a-court-compel-the-epa-to-protect-communities-of-color-from-cafo-pollution/>

Campbell, Leah. North Carolina Hurricanes Linked to Increases in Gastrointestinal Illnesses in Marginalized Communities. March 7, 2022. *Inside Climate News.* <https://insideclimatenews.org/news/07032022/north-carolina-hurricanes-gastrointestinal-illnesses/>

Study links N.C. hog feeding operations to acute gastrointestinal illness. November 23, 2022. *UNC Gillings School News.* <https://sph.unc.edu/sph-news/study-links-n-c-hog-feeding-operations-to-acute-gastrointestinal-illness/>

Experiences of racism in adolescence raise risk of depression for Black women. February 22, 2021. *UNC Gillings School News*. <https://sph.unc.edu/sph-news/experiences-of-racism-in-adolescence-raise-risk-of-depression-for-black-women/>