

TyKeara Mims

Texas A&M University
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EDUCATION

Degrees

- Expected 2024 **DrPH**, Public Health Sciences
Texas A&M University, College Station, TX
Dissertation: *Perception, Exposure, and Compliance: Understanding the Dynamics of Protective Behaviors*
Advisor: Dr. Benika Dixon
- 2018 **MPH**, Community Health Education, Epidemiology minor
University of Tennessee, Knoxville, Knoxville, TN
- 2015 **BA**, World History
Spelman College, Atlanta, GA
Honors Thesis: *British Empire as a Catalyst to Malarial Epidemic: An Analysis of Imperial Expansion and Malaria Epidemic in India and West Africa in the Nineteenth and Twentieth Centuries*

PROFESSIONAL EXPERIENCE

- 2018 – 20 Commissioner's Fellow
Tennessee Department of Health, Nashville, TN
- 2015 – 16 Program Administrator
Visionary Solutions LLC/Visionary Center for Sustainable Communities, Knoxville, TN

INTERNSHIPS

- 2023 – pres Intern
Innovative Emergency Management, Research Triangle Park, NC
- 2018 Public Safety Intern
The University of Tennessee, Knoxville, Knoxville, TN
- 2017 Food Safety Intern
East Tennessee Regional Health Office, Knoxville, TN
- 2017 Worksite Wellness Intern
Knox County Health Department, Knoxville, TN

TEACHING EXPERIENCE

Classroom Instruction

- 2024 PHEB 622: Reproductive & Perinatal Epidemiology (graduate, TA)
- 2022 – 24 PHLT 305: Epidemiology Public Health (undergraduate, TA)
Texas A&M University School of Public Health
- 2023 PHEB 689: Global Health Epidemiology (graduate, TA)
Texas A&M University School of Public Health
- 2022 – 23 PHLT 314: Public Health Data Management and Assessment I (undergraduate, TA)
Texas A&M University School of Public Health

- 2022 PHLT 315: Public Health Data Management and Assessment II (undergraduate, TA)
Texas A&M University School of Public Health
- 2022 PHLT 470/SOPH 670: Global Public Health Systems and Practice Experiences
(undergraduate and graduate, TA)
Texas A&M University School of Public Health
- 2022 PHLT 485/PHPM 685: Germany Emergency Public Health Preparedness and Response
(undergraduate and graduate, TA)
Texas A&M University School of Public Health
- 2021 SOPH 601: Thinking in Populations: The Public Health Mindset (graduate, TA)
Texas A&M University School of Public Health
- 2021 SOPH 602: Investigation and Control: Acute Public Health Events (graduate, TA)
Texas A&M University School of Public Health
- 2021 SOPH 603: Assessment and Intervention: Wicked Problems (graduate, TA)
Texas A&M University School of Public Health
- 2021 SOPH 604: Framing & Persuasion: Public Health in the Public (graduate, TA)
Texas A&M University School of Public Health

Guest Lectures

- 2024 PHEB 613: Field Epidemiology Methods (graduate)
Texas A&M University School of Public Health
- 2023 - 24 PHLT 415: Emergency Management in Public Health (undergraduate)
Texas A&M University School of Public Health

RESEARCH EXPERIENCE

- 2021 – pres Research Assistant
Texas A&M University School of Public Health
- 2023 NSF CHEER Scholar and Research Assistant
Coastal Hazards, Equity, Economic Prosperity, and Resilience (CHEER) Hub
- 2021-22 Student Researcher
University of Colorado Boulder Natural Hazards Center
- 2020-21 Graduate Research Assistant
Texas A&M University School of Public Health
- 2016-2017 Graduate Research Assistant
University of Tennessee, Knoxville Department of Public Health

PUBLICATIONS

Peer-Reviewed Journal Articles

- 2024 Sansom, G., Dixon, B. C., Sansom, L., Losa, L., Hernandez, R., **Mims, T.**, & Johnson, J. N. (2024). Cohesive Cities and Resilient Cities: Are they the same? *Risk Analysis*. Submitted for Publication
- 2023 Caldwell, J., **Mims, T.**, Johnson, J. N., & Dixon, B. C. (2023). A Collaborative Approach to Addressing Environmental Injustice in Fifth Ward, Houston, Texas. *Environmental Justice*. env.2022.0036. <https://doi.org/10.1089/env.2022.0036>

Book Chapters

- 2019 Vick, J., Costakis, C., Meehan, L., & **Mims, T.** (2019). Defining and Understanding Active Living Principles. In: *Physical Activity & Public Health: A Practitioner's Guide* (pp. 1–56). Washington, DC: APHA Press.

Reports

- 2022 Natural Hazards Center at the University of Colorado Boulder. Diversifying HayWired Communication. Boulder, CO: University of Colorado Boulder, 2022.
<https://hazards.colorado.edu/research-projects/diversifying-haywired-communications>
- 2018 **Mims, T.** (2019). *Tennessee Shared Use Agreement Handbook*. Tennessee Department of Health. <https://www.tn.gov/health/health-program-areas/office-of-primary-prevention/redirect-opp/built-environment-and-health/built-environment-resources.html>

Publications in Progress or Planned

- 1 **Mims, T.**, Johnson, J. N., & Dixon, B. C. (2024). Behind Bars and Under Fire: Investigating Extreme Heat Experiences in Texas Prisons. *Environmental Justice*. *In Preparation*
- 2 **Mims, T.** (2024). ITC Petrochemical Fire: Assessing the impact of individual and community factors on compliance with protective action recommendations following an anthropogenic hazard. *Environmental Justice*. *In Preparation*
- 3 **Mims, T.** (2024). Memorial Day Flood: Assessing the impact of individual and community factors on compliance with protective action recommendations following a major flood event. *Disaster Medicine and Public Health Preparedness*. *In Preparation*
- 4 **Mims, T.** (2024). Deer Park Tornado: Assessing the impact of individual and community factors on compliance with protective action recommendations following a tornado. *Disaster Medicine and Public Health Preparedness*. *In Preparation*
- 5 Johnson, J. N., Hernandez, R., **Mims, T.**, Dixon, B. C., & Sansom, G. (2022). Understanding the Relationship Between Environmental Risk Perception and Pregnancy Complications- A Comparison Between Harris and Hidalgo County. *In Preparation*
- 6 Yusuf, A., Taylor, L., Dixon, B. C., Marx, M., **Mims, T.**, Frost, E., Tarwater, P., Zhao, H., Regan, A., Gibbs, S., & Fischer, R. S. (2022). Clinical and Epidemiologic Features of SARS-CoV-2 Infection in University Students. *Emerging Infectious Diseases*. *In Preparation*

SELECTED PRESENTATIONS

Invited Talks

- 2024 National Pan-Hellenic Council Graduate Student Panel
Texas A&M University School of Public Health, College Station, TX, January 24
- 2023 Addressing CHEER Hub Panel
Annual Natural Hazards Research and Applications Workshop, Boulder, CO, July 12
- 2022 Innovation X Panel
Texas A&M University School of Public Health, College Station, TX, October 20
- 2022 Epidemiology Student Organization DrPH Student Panel
Texas A&M University School of Public Health, College Station, TX, October 17
- 2022 Diversifying HayWired: Connecting with Marginalized Communities to Improve Risk Communication, Natural Hazards Center Webinar, August 9

- 2022 Diversity Equity, Inclusion & Employment: Insights from Alumni in Inspiring Positions, Mentor Panel, University of Tennessee, Knoxville Department of Public Health, Knoxville, TN, May 5

Conference and Workshop Presentations

- 2024 Toon, J., Simmons, M., **Mims, T.**, Finau, P., Goddard, T., Purdum, C., & Dixon, B. C. Lioness JIWA and TAMU: Empowering Justice-Impacted Communities Through a Community-Led Academic Collaboration. Natural Hazards Workshop, Boulder, CO, July [Poster]. *Accepted*
- 2024 Finau, P., **Mims, T.**, Toon, J., Simmons, M., Goddard, T., Purdum, C., & Dixon, B. C. Unveiling Voices: Evacuation Experiences of Incarcerated Women in Disasters. Natural Hazards Workshop, Boulder, CO, July [Poster]. *Accepted*
- 2024 Dixon, B., Purdum, C., **Mims, T.**, Simmons, M.M., & Toon, J. Centering the Needs of Incarcerated People in Disaster Risk Reduction. Natural Hazards Workshop, Boulder, CO, July [Panel]. *Accepted*
- 2024 Johnson, J. N., **Mims, T.**, Dixon, B. C., Hill, Ashley, & Sansom, G. Mental Health and Birth Outcomes in Women Post-Hurricane Harvey. Mom and Baby Action Network Summit, Chicago, IL, April [Oral Presentation].
- 2024 **Mims, T.**, Finau, P., Toon, J., Simmons, M., Goddard, T., Purdum, C., & Dixon, B. C. Rural Community Capacity: Evacuation Experiences and Health Outcomes of Incarcerated Women. Texas A&M University Student Research Week Symposium, College Station, TX, March 19 [Poster].
- 2023 Johnson, J. N., **Mims, T.**, Dixon, B. C., Purdum, C., Dominick, A. Environmental Injustice Is Served: The Case for the Incarcerated Population. Society for Public Health Annual Conference, Atlanta, GA, March 23 [Oral Presentation].
- 2023 **Mims, T.**, Johnson, J. N., Pandey, T., Dixon, B. C., Purdum, C., Dominick, A. COVID-19 Health Promotion and Policy Implementation in Texas Prisons. Society for Public Health Annual Conference, Atlanta, GA, March 22 [Poster].
- 2023 **Mims, T.**, Johnson, J. N., Pandey, T., Dixon, B. C., Purdum, C., Dominick, A. COVID-19 Burden Among Incarcerated Persons in Texas. Xavier University of Louisiana Health Disparities Conference, New Orleans, LA, February 22 [Poster].
- 2023 Osuji, C., Uyamasi, K., **Mims, T.**, Williams, E., McKyer, E.L., & Tasnim, S. Association between Race/Ethnicity and Weight Management Behaviors among US Adults: Findings from 2017-2020 National Health and Nutrition Examination Survey (NHANES). American Academy of Health Behavior Scientific Meeting, San Francisco, CA, March [Poster].
- 2022 **Mims, T.**, Haridi, M., Bui, M., Dube, J., & Zou, L. Perceptions of COVID-19 Protocols at Texas A&M University. American Public Health Association Annual Meeting and Expo, Boston, MA, November [Poster].
- 2022 **Mims, T.**, Haridi, M., Bui, M., Dube, J., & Zou, L. Navigating Campus Sentiments: Analyzing Public Perception of COVID-19 Policies at Texas A&M University Through Social Media. Texas A&M University Student Research Week Symposium, College Station, TX [Poster].
- 2021 Taylor, LA., **Mims, T.**, Yusuf, A., Dixon, B. C., & Fischer, RSB. Aggressive Community and Workplace Spread of SARS-CoV-2 B.1.1.7 and Severe Illness on a Large University Campus. American Society for Tropical Medicine and Hygiene Annual Meeting, virtual, November [Poster].
- 2021 McNulty, A., & **Mims, T.** Spatial Description of COVID-19 in Brazos Valley, a seven-county region in Central Texas. Texas A&M University Student Research Week Symposium, College Station, TX [Poster].

- 2019 Kirtz, E, **Mims, T.**, Merced-Morales, A. Top Reasons Preventing Black Women from Initiating Prenatal Care in Tennessee: Results from the Tennessee Pregnancy Risk Assessment Monitoring System, 2012- 2017. American Public Health Association Annual Meeting and Expo, Philadelphia, PA, November [Poster].
- 2019 **Mims, T.**, Kirtz, E.M., & Merced-Morales, A. The Association between Sources of Breastfeeding Information and Breastfeeding Initiation: Results from PRAMS, 2016-2017. Tennessee Public Health Association Annual Conference, Nashville, TN, October [Poster].

FELLOWSHIPS, GRANTS AND AWARDS

Fellowships

2020 – pres William (Bill) Averette Anderson Fund Fellowship

Grants

Rural Community Capacity: Evacuation Experiences and Health Outcomes of Incarcerated Women
November 2023 – August 2024

A \$ 50,000 Natural Hazards Center grant to promote novel research with strong public health applications that will help shield populations from future hazard events by improving their disaster preparedness and response. (Role: Co-Investigator)

Awards

- 2023 NSF CHEER 2023 Scholar and Research Assistant (NSF OCE#2209190) [\$6,000]
- 2023 Aggie Ring Scholarship
- 2021 Natural Hazards Center Graduate Research Award [\$5,000]
- 2020 Dr. Ciro V. Sumaya Scholarship
- 2017 Dr. June Gorski Scholarship
- 2017 Foster Chapel Baptist Church Academic Excellence Scholarship
- 2017 Graduate Student Research Colloquium travel award
- 2016 Foster Chapel Baptist Church Continuing Education Scholarship

SERVICE

Departmental and University Service

- 2024 ATP Faculty Search Committee, Student Representative
Texas A&M University School of Public Health
- 2022 – 23 Tenure Track Faculty Search Committee, Student Representative
Texas A&M University School of Public Health
- 2016 – 18 Curriculum Deep Dive Committee, Student Representative
University of Tennessee, Knoxville Department of Public Health
- 2016 – 18 Equity and Diversity Committee, Student Representative and Trainer
University of Tennessee, Knoxville Department of Public Health

Conference Organization

- 2023 Conference Reviewer
Information Systems for Crisis Response and Management (ISCRAM)
- 2022 – 23 Disaster Healthcare and Public Health Information Systems Track, Co-chair
Information Systems for Crisis Response and Management (ISCRAM)

Leadership Positions

- 2022 – 23 William (Bill) Averette Anderson Fund, Treasurer

- 2022 – 23 Epidemiology Student Organization, Treasurer
Texas A&M University School of Public Health
- 2016 – 17 Public Health Graduate Student Association, Vice President
University of Tennessee, Knoxville Department of Public Health

Professional Affiliations

- 2017- pres American Public Health Association (APHA)
- 2018 -2020 Tennessee Public Health Association (TPHA)

Mentorship

Undergraduate Students

- 2023 Nyla Howell, University of Maryland
- 2023 Eva Pumo, University of Delaware
- 2023 Guadalupe Guevara, University of Delaware
- 2022-23 Tia Pandey, Texas A&M University

MPH Students

- 2024 Pisila Finau, Texas A&M University

DrPH Students

- 2022-23 Ruby Hernandez, Texas A&M University
William (Bill) Anderson Fund Buddy Program

CONTINUING EDUCATION AND TRAINING

Texas A&M University System

- 2022 Creating a Discrimination-Free Workplace
- 2022 Ethics & Fraud
- 2022 Export Controls & Embargo Training
- 2022 STRIPE Workshop: Strategies and Tactics for Retention Through Inclusive Promotion Evaluation
- 2022 FERPA
- 2022 Information Security Awareness
- 2022 Bloodborne Pathogens Training for Healthcare Providers and Clinical Personnel
- 2021 COVID-19 Management and Guidance Plans - TAMU
- 2021 HIPAA Training for Texas A&M Faculty, Staff & Students Only
- 2021 Protocol and Certification for System Member Employees
- 2020 HIPAA Privacy and Security for Human Research
- 2020 Reporting Fraud, Waste and Abuse
- 2020 Ethics
- 2020 Safe Practices for Returning to the Office During the COVID-19 Pandemic

Collaborative Institutional Training Initiative (CITI Program)

- 2023 Group 2. Social and Behavioral Research Investigators and Key Personnel
- 2022 Group 1. Biomedical Research Investigators and Key Personnel

FEMA Emergency Management Institute

- 2023 IS-120.c An Introduction to Exercises
- 2023 IS-230.e Fundamentals of Emergency Management
- 2023 IS-235.c Emergency Planning
- 2023 IS-240.c Leadership and Influence
- 2023 IS-241.c Decision Making and Problem Solving

- 2023 IS-242.c Effective Communication
- 2023 IS-244.b Developing and Managing Volunteers
- 2022 IS-200.c Basic Incident Command System for Initial Response
- 2022 IS-700.b An Introduction to the National Incident Management System
- 2018 IS-247.a Integrated Public Alert and Warning System (IPAWS)
- 2017 IS-800.d National Response Framework: An Introduction
- 2017 IS-100.c Introduction to Incident Command System (ICS)

Center for Agriculture and Food Security and Preparedness

- 2017 Initial Foodborne Illness Investigation
- 2017 Foodborne Outbreak Investigation and Response Team Roles and Responsibilities:
Part A
- 2017 Foodborne Outbreak Investigation and Response Team Roles and Responsibilities:
Part B

Nutrition Education Activity Training (NEAT) University

- 2017 Training on Nutrition and Healthy Activities for Children

Knox County Health Department and UT Medical Center

- 2017 Supporting Successful Breastfeeding Seminar

University of Michigan Public Health Training Center

- 2017 Measuring Health Disparities Training, Modules 1-2

University of North Carolina Gillings School of Global Public Health

- 2016 Distinguishing Public Health Ethics from Medical Ethics (Public Health Ethics, Module 1)
- 2016 Values and Beliefs Inherent to a Public Health Perspective (Public Health Ethics, Module 2)