

# Kari Northeim, Ph.D., M.B.A.

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School of Public Health  
Department of Population and Community Health  
University of North Texas Health Science Center  
3500 Camp Bowie Dr., EAD 620J, Ft Worth, TX 76107

[kari.northeim@unthsc.edu](mailto:kari.northeim@unthsc.edu)

## EDUCATION/CERTIFICATION

2021 Ph.D. - University of North Texas, Denton, Texas, Environmental Science  
*Dissertation: Ozone pollution monitoring and population vulnerability in Dallas – Ft. Worth: A decision support approach*

2009 M.B.A.- Syracuse University, Syracuse, NY, Business Administration

1996 B.S.- Iowa State University, Ames, IA, Industrial Engineering

2014 Texas Education Agency Certification (TEA)  
Composite Science - Environmental Science, Physics, Biology, Chemistry

## PROFESSIONAL EXPERIENCE

*Assistant Professor, UNTHSC* 2022 – current  
*Department of Population and Community Health*

*IES Research – Pre-hospital care research* 2021 - current

*Adjunct Professor, Department of Geography & Environment* 2021-2022

*Adjunct Assistant Professor, UNTHSC* 2021-2022  
*Department of Biostatistics and Epidemiology*

*Teaching Assistant, Proctor, Grader, Department of Biology* 2017-2018

*Science Teacher, Liberty Christian School* 2012-2014

*Engineer, Carrier Corporation* 1996 – 2006, 2012-2012

## ACADEMIC PUBLICATIONS, RESEARCH & ADVOCACY

### Journal article publications/academic presentations

Wang, S., Walters, S., & **Northeim, K.**, (2024). Geographic Trends in Overall and Long-acting Opioid Prescriptions under Medicaid and Medicare Part D in the United States, 2013-2021. *American Journal of Drug and Alcohol Abuse.*

Riddle TJ, Lane M, Fair R, Bryant R, Bertrand S, Northeim J, **Northeim K.** Saving Time Saves Lives: Optimizing Radio Dispatching in Out-of-Hospital Cardiac Arrests. *Cureus.* 2024 Sep 26;16(9):e70257. doi: 10.7759/cureus.70257. PMID: 39463551; PMCID: PMC11512585.

**Northeim, K.**, & Oppong, J. R. (2023). Mapping Health Fragility and Vulnerability in Air Pollution Monitoring Networks in Dallas–Fort Worth. *International Journal of Environmental Research and Public Health*, 20(3), 1807.

**Norheim**, Marks, and Tiwari (2021). PeerJ Life and Environment: *Spatio-temporal Trends of Ozone and Respiratory Emergency Room Visits in Dallas – Fort Worth*

**Norheim**, Oppong and Tiwari (2021). Environmental Science and Policy: *Ozone air pollution monitoring and policy: A geospatial decision support system for the placement of air pollution monitors in urban environments.*

### Academic presentations

**Norheim, K.** (2024) Texas Health Resources – speaker, Climate and Health Conference. EcoVisions: *Transforming Awareness through Art and Environmental Storytelling*

**Norheim, K.** (2024) *Nexus IPE Summit - presenter, The Benefits of Retreating: How to Unite Your Introprofessional Troop of Faculty Champions for the Charge.*

**Kari Norheim**, PhD, Emily Spence, PhD, Catherine Sembajwe-Reeves, EdD, and Shafik Dharamsi, PhD, Impact 2030: A strategic plan for educating the healthcare workforce of the future, Ubuntu TUFH Conference, Cape Town, South Africa

Mendoza, E.P., Neelamegam, M., Balasundaram, R.B., Zhou, Zhengyang, & **Norheim, K.** (2024, 1-2 February). *Geospatial intersection of Alzheimer's Disease and Related Dementias, diabetes, and poverty among U.S. women: A county-level analysis across ethnicities.* 5th Annual Women's Cardiovascular and Brain Health Symposium, Fort Worth TX, United States.

Wang, S., Rossheim, M.E, Walters, S.T, Nandy, R.R, & **Norheim, K.** Geographic Trends in Overall and Long-acting Opioid Prescribing Rates under Medicaid and Medicare Part D in the United States, 2013-2021. Poster presentation at the American Academy of Health Behavior (AAHB) conference, Savannah, Georgia, April 14-17, 2024.

Akpan, I. N., Thompson, E. L., & **Norheim, K.** (2024, April 14-17). *Exploring spatial patterns of sociodemographic characteristics and multiple chronic conditions among US adults aged 65 years and older* [Poster presentation]. American Academy of Health Behavior 2024 Annual Meeting, Savannah, GA, USA.

**Balasundaram, R.**, Mendoza, E., **Norheim, K.** (2023). Exploring Socioeconomic Influences on Dental Visit Prevalence in Texas using Geographic Weighted Regression. Texas Society of Public Health Education Conference, Austin, Texas, October 2022.

Keynote Speaker – Giant Water Bottle Project – UNTHSC Sustainability, **Norheim, K.** (2023). Keynote Address at the Giant Water Bottle Project Event. UNTHSC Sustainability, University of North Texas Health Science Center.

**Norheim, K. (2023)**. Panel Moderator at the Healthy Neighborhoods Event. UNTHSC Institute for Health Disparities.

**Norheim, K. (2022)**. Presentation title: Health and Vulnerability in DFW. In Proceedings of the Applied Geography Conference (Online), 2022.

**Norheim, K. (2022)**. Session title: Health Fragility and Vulnerability from Environmental Pollution. In Proceedings of the Applied Geography Conference (Online – Session Organizer), 2022.

**Norheim, K. (2021)**. Presentation title: Spatial extent changes in urban environments: Challenges in designing air quality networks. In Abstracts of the Annual Meeting of the Association of American Geographers, Denver.

**Norheim, K. (2020)**. Presentation title: Environmental vulnerability in DFW – Are proportions of the population not covered producing potential inequities and disproportionate health burdens? In Proceedings of the Race Ethnicity & Place Conference, Austin.

**Norheim, K. (2020).** Poster title: Challenges in locating sensors for monitoring ozone exposure. In Abstracts of the Annual Meeting of the Association of American Geographers, New Orleans.

**Norheim, K. (2017).** Predicting Ozone Exposure in DFW. In Proceedings of the Southwest Association of American Geographers Annual Meeting, Houston.

Committee Member

2022	Thesis defense – Amanda Long An enhanced methodology for applied spatial modeling of structural and functional connectivity of small mammal habitats ( <i>Peromyscus leucopus</i> , <i>Peromyscus maniculatus</i> , <i>Apodemus flavicollis</i> )
2024	PhD – Kaeli Johnson (in progress)

Journal Reviewer

2023	Health & Place, Elsevier, Impact Factor 4.931
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Grants/ Awards

2023	SAMHSA Rural EMS Training Grant – NOA #1H79TI086751-01 Co-Principal Investigator (2023-2024) \$266,800
2024	SAMHSA Rural EMS Training Grant – Co-Principal Investigator (2024-2026) \$398,000
2024	National Institute on Drug Abuse – Preparing the Next Generation of Addiction Researchers in Computational AI/ML(PI-EY MUN) \$661,554

Advocacy & Volunteering

2023	Remote Area Medical (RAM) volunteer
2023	Fort Worth Regional Science Fair - Judge
2020	DFW Downwinders at Risk – Director of Ozone
2021	Denton County Medical Reserve Corps – COVID-19 Vaccinations
2002	Big Brothers, Big Sisters of America – Big Sister