

NAME: Juan Aguilera, MD, PhD, MPH

PRESENT TITLE: Assistant Professor, UTHealth Houston School of Public Health in El Paso

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FOREIGN EDUCATION:

- **MD**, Universidad Autónoma de Ciudad Juárez, México, Medicine, 2001 - 2009
- **Diploma**, Emergency Medicine, Instituto Politécnico Nacional (IPN), 2010 - 2011

GRADUATE EDUCATION:

- **MPH**, Master's in Public Health, University of Texas at El Paso, 2013 - 2016
- **Certificate**, Technical and Professional Writing, University of Texas at El Paso, 2015 - 2019
- **PhD**, Interdisciplinary Health Sciences, University of Texas at El Paso, 2016 – 2020
- **Certificate**, Medical Statistics, Stanford University, 2022

POSTGRADUATE TRAINING:

- **Postdoctoral Fellow**, Sean Parker Center for Allergy and Asthma Research, Stanford University, 2020 - 2021.

ACADEMIC & ADMINISTRATIVE APPOINTMENTS:

- **Assistant Professor**, UTHealth Houston School of Public Health in El Paso, 2023 - Present.
- **Affiliate Faculty**, Department of Environmental Health, Harvard T.H. Chan School of Public Health, 2025 - Present
- **Basic Life Research Scientist**, Sean Parker Center for Allergy and Asthma Research, Stanford University, 2021 - 2023.
- **Instructor of Record**, College of Health Sciences, University of Texas at El Paso, 2019 – 2021.

HONORS AND AWARDS:

- **2025–2026: Two competitive SWCOEH–NIOSH ERC Pilot Project awards** to research team—PI on *Impacts of Heat and Ozone Co-Exposure on Chronic Disease Among Outdoor Workers* and Co-PI on *Pilot Evaluation of a Wearable Monitoring Device for Worker Heat Stress Prevention*.
- **2025: ISEE Wartenberg Award Recipient** — Supported attendance at the 2025 Joint Annual Conference of the International Society of Exposure Science (ISES) and the International Society for Environmental Epidemiology (ISEE), Atlanta, GA, USA
- **2025–2026: Early Career Nutrition Seed Funding Program Pilot Grant Award**, *Understanding Pork Acceptance in School Meals through Bilingual Nutrition Education and Meal Selection in a Border-Region Elementary School*, American Society for Nutrition Foundation, USA
- **2025: Full Tuition Fellowship Recipient**, *Summer Short Course: Emotional Well-Being & Physical Health*, hosted by the Department of Social and Behavioral Sciences, Harvard T.H. Chan School of Public Health, and the Department of Behavioral Science and Health, University College London
- **2025: Selected for NIH Environmental Justice (EJ) Scholars Program**, National Institutes of Health (NIH), USA

- **2024–2025: Selected as a GeoCAFÉ Scholar, National Science Foundation** (C2H2 RCN GeoCAFÉ – Convening, Accelerating, Fostering, and Expanding Geosciences Research on Climate Change & Human Health), Climate Change and Health Research Coordinating Center, Boston University School of Public Health & Harvard T.H. Chan School of Public Health.
- **2024: *Columbia Climate and Health Bootcamp Scholarship***, CAFÉ, Boston University School of Public Health & Harvard T.H. Chan School of Public Health, USA
- **2023: *Excellence in Climate Leadership Award***, American Public Health Association, USA
- **2022–2025: *NextGen Scientists Program cohort member***, National Dairy Council (NDC), USA.
- **2021–2022: *Postdoctoral Justice, Equity, Diversity, and Inclusion (JEDI) Champion***, Stanford CA
- **2021: *Star Mentor Award*** in recognition of mentorship for the 2021 Stanford Bio X Undergraduate Research Program, Stanford, CA
- **2020–2021: *Scientist Sentinels: Civic Engagement and Leadership Program awardee***, Communication Partnership for Science and the Sea (COMPASS), Seattle WA
- **2020: *21st Century Scholarship recipient***, Society for Public Health Education (SOPHE), Atlanta, GA
- **2019–2020: *Stanford Postdoctoral Recruitment Initiative in Sciences and Medicine (PRISM) recipient***, Stanford CA
- **2019 – 2020: *Frank and Polly Ann Morrow Outstanding International Student Award***, Office of International Programs, University of Texas at El Paso, El Paso TX.
- **2019: *Distinguished Leader Award***, Student Engagement and Leadership Center, University of Texas at El Paso, El Paso TX.
- **2019: *Top poster presentation***, New Mexico Public Health Association, Las Cruces NM.
- **2018-2020: *Allien and Paul C. Davidson Scholarship***, Graduate Student Award Recipient, University of Texas at El Paso, El Paso, TX
- **2018: *Agent of Change Leadership Award***, Student Engagement and Leadership Center, University of Texas at El Paso, El Paso TX.
- **2017 - 2018: *Good Neighbor Scholarship State Scholarship Award***, Texas Higher Education Coordinating Board, El Paso, TX
- **2015 – 2017: *Paso del Norte Health Foundation Fellowship***, Paso del Norte Institute for Healthy Living, El Paso, TX
- **2016: *1st Place National Poster Abstract***; Obesity Week Latin American Affairs Section of The Obesity Society, New Orleans, LA.
- **2014 – 2015: *Allien and Paul C. Davidson Scholarship***, Graduate Student Award Recipient, University of Texas at El Paso, El Paso, TX
- **2013 – 2015: *Paula B. Ford Endowed Scholarship***, Graduate Student Award Recipient, University of Texas at El Paso, El Paso, TX

#### PROFESSIONAL ORGANIZATIONS:

- **Board of Directors member**, Physicians for Social Responsibility, Texas, 2025 – Present [Selected]
- **Member of the NIH Board of Scientific Counselors**, 2023 – Present
- **Councilmember**, Community Advisory Committee, Bay Area Air District, 2022 – Present [Appointed]

- **Scholarship judge and member**, American Mensa Organization, 2023 – Present [Test-based admitted]
- **Finance Committee member**, The Obesity Society (TOS), 2022 – 2024 [Elected]
- Member, American Society for Nutrition (ASN), 2021 - Present
- Member, Society for Public Health Education (SOPHE), 2018 – Present
- Member, American Public Health Association (APHA), 2017 - Present
- Member, American Academy of Allergy, Asthma, and Immunology (AAAAI), 2021 - 2023

#### EDITORIAL POSITIONS:

- **Editorial Director**, Health Promotion Practice Journal, 2025 - Present
- Editorial Board member, Nutrition and Diabetes Journal, 2024 - Present
- **Guest Editor**, Maternal and Fetal Exposure to Air Pollution Special Issue, International Journal of Environmental Research and Public Health, 2025-2026
- Associate Editor, Health Promotion Practice Journal, 2021 - 2025
- **Topic Editor**, Frontiers in Allergy journal, 2021-2023

#### SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

- **Center Reviewer, NIH Clinical Center BSC Review** – Department of Laboratory Medicine. (Oct, 2025)
- **Panel Chair & Grant Reviewer, USDA Agricultural Marketing Service (AMS), Local Food Promotion Program (LFPP) grant review panel.** (2025)
- Research Poster Judge, Joint Annual Conference of the International Society of Exposure Science (ISES) and International Society for Environmental Epidemiology (ISEE) — Atlanta, GA. (2025)
- **Center Reviewer, NIH Clinical Center BSC Review** – Translational Biobehavioral and Health Promotion Branch. (2024)
- **Grant Reviewer, NASA Minority University Research and Education Project (MUREP), INCLUDES Program.** (2024)
- **Grant Reviewer, USDA Agricultural Marketing Service (AMS), Local Food Promotion Program (LFPP).** (2024)
- **Center Reviewer, NIH Clinical Center BSC Review** – Radiology and Imaging Sciences Department. (2023)

#### SERVICE ON THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON COMMITTEES (Specific to UTHealth Houston):

- **Director, Community Health Impact Projects (CHIP)** in El Paso, 2025 - Present.
- **Head of Implementation and Evaluation**, Center for Community Health Impact (CCHI), 2024-2025.
- **Clinic Lab Director**, El Paso Nutrition and Healthy Weight Clinic, 2024- Present
- Judge, Ad Hoc Student Scholarship Committee, Department of Health Promotion and Behavioral Sciences, 2024, 2025.
- Reviewer, Preliminary Exam Grading for HPBS Doctoral Student, 2024, 2025.
- Judge, Student Research Day Poster Competition, UTHealth Houston School of Public Health, April 2024.

- Volunteer, Open House and Kickoff National Public Health Week, UTHealth Houston School of Public Health in El Paso, April 2024.
- Faculty Search Committee, UTHealth Houston School of Public Health in Brownsville.
- Occupational Medicine Search Committee, UTHealth Houston School of Public Health.
- Member, UTHealth Houston Center for Health Promotion and Prevention Research (CHPPR).
- Member, UTHealth Houston Institute for Implementation Science.
- Member, UTHealth Houston Southwest Center for Occupational and Environmental Health.

#### CURRENT TEACHING RESPONSIBILITIES:

- PH 1110, Health Promotion and Behavioral Sciences in Public Health, Fall 2025, 30 students
- PH 1120 Program Evaluation, Summer 2025, 8 students.

#### PAST TEACHING RESPONSIBILITIES:

- PH 1110, Health Promotion and Behavioral Sciences in Public Health, Fall 2024, 32 students
- PH 1120 Program Evaluation, Summer 2024, Co-instructor, 25 students.
- PH 1112 Community Assessment Principles, Methods, and Technologies, Spring 2024, Co-instructor, 40 students.
- HSCI 3306 – Environmental Health, Fall 2020 (University of Texas at El Paso)
- HSCI 3308 - Disease Characteristics, Control, and Prevention, Fall 2019 (University of Texas at El Paso)

#### CURRENT CLINICAL SERVICE RESPONSIBILITIES:

- Clinic Lab Director, El Paso Nutrition and Healthy Weight Clinic.

#### CURRENT GRANT SUPPORT:

##### **Federal**

- 07/10/2021 – 03/31/2026  
*VALE+Tú Salud: Corner-Based Randomized Trial to Test a Latino Day Laborer Program Adapted to Prevent COVID-19*  
**Funding Source:** NIMHD, NIH  
**Amount:** \$628,766  
**Role:** Co-Investigator (Co-I) PI: Maria Fernandez-Esquer, PhD
- 07/01/2023 – 10/31/2026  
*Southwest USDA Regional Food Business Center*  
**Funding Source:** U.S. Department of Agriculture (USDA)  
**Amount:** \$1,656,082  
**Role:** Co-Investigator (Co-I) PI: Beth Racine (Texas A&M); Subaward PI: Gabriela Gallegos (UTHealth Houston)
- 09/01/2025 – 08/31/2026  
*Impacts of Heat and Ozone Co-Exposure on Chronic Disease Among Outdoor Workers*  
**Funding Source:** Southwest Center for Occupational and Environmental Health (SWCOEH), NIOSH Education and Research Center — Pilot Projects Research Training (PPRT) Program

**Amount:** \$10,000

**Role:** Principal Investigator (PI)

- 09/01/2025 – 08/31/2026

*Pilot Evaluation of a Wearable Monitoring Device for Worker Heat Stress Prevention*

**Funding Source:** SWCOEH, NIOSH ERC — Pilot Projects Research Training (PPRT) Program

**Amount:** \$10,000

**Role:** Co-Principal Investigator (PI); Co-PI: Abolore Idris, PhD

- 06/01/2025 – 05/31/2026

*Understanding Pork Acceptance in School Meals Through Bilingual Nutrition Education and Meal Selection in a Border-Region Elementary School*

**Funding Source:** American Society for Nutrition (ASN) — Early Career Nutrition Seed Grant

**Amount:** \$10,000

**Role:** Principal Investigator (PI)

#### State

- 09/24/2025 – 09/23/2027

*Texas Firefighter Cancer Study*

**Funding Source:** State of Texas Legislature (via UTHealth Houston / SWCOEH)

**Amount:** \$5,000,000 (Legislative appropriation)

**Role:** Co-Investigator (Co-I) PI: Dr Jooyeon Hwang

- 09/01/2024 – 05/31/2026

*Assessing Health Impacts of Heat & Air Pollution in At-Risk Populations in El Paso, TX*

**Funding Source:** UTHealth Houston PRIME Award

**Amount:** \$25,000

**Role:** Principal Investigator (PI)

#### Local / Foundation

- 09/01/2024 – 05/31/2026

*Environmental Health Impact Assessment of BOTA Neighboring Communities*

**Funding Source:** El Paso County Commissioners' Office

**Amount:** \$200,000

**Role:** Co-Principal Investigator (Co-PI) (PI: Gabriel Ibarra, MD, PhD)

- 09/01/2023 – 10/31/2025

*Cultivating Health with Veggie Scripts and Gardening Program Evaluation*

**Funding Source:** La Semilla via GusNIP, National Institute of Food and Agriculture (NIFA), USDA

**Amount:** \$24,784

**Role:** Principal Investigator (PI)

- 09/01/2023 – 08/31/2026

*Raise the Bar Program Evaluation*

**Funding Source:** El Paso Independent School District (EPISD) via Department of Defense

**Amount:** \$31,228

**Role:** Principal Investigator (PI)

- 07/01/2025 – 09/30/2025

*TasterSpace Program Evaluation*

**Funding Source:** Desert Spoon Food Hub via Paso del Norte Health Foundation

**Amount:** \$14,000

**Role:** Principal Investigator (PI)

PAST GRANT SUPPORT:

**Federal**

- 09/01/2018 – 03/31/2025  
*VALES+Tú: Targeting Psychosocial Stressors to Reduce Latino Day Laborers' Injury Disparities*  
**Funding Source:** National Institute on Minority Health and Health Disparities (NIMHD), NIH  
**Amount:** \$622,657  
**Role:** Co-Investigator (Co-I); PI: Maria Fernandez-Esquer, PhD
- 09/01/2021 – 02/28/2024  
*Fighting Obesity by Reinventing Public Transportation: A Natural Experiment*  
**Funding Source:** National Cancer Institute (NCI), NIH  
**Amount:** \$570,561  
**Role:** Co-Investigator; PI: Chanam Lee (Texas A&M); Subaward PI: Leah Whigham (UTHealth Houston)
- 01/2021 – 01/2023  
*Immune Tolerance Dysfunction in Pregnancy due to Ambient Air Pollution Exposure*  
**Funding Source:** National Heart, Lung, and Blood Institute (NHLBI), NIH  
**Amount:** \$1,568,068  
**Role:** Co-Investigator; PI: Kari Nadeau, MD, PhD
- 01/2021 – 01/2023  
*Air Pollution Disrupts Inflammasome Regulation in Heart and Lung Total Health (AirHealth)*  
**Funding Source:** NIH P01 via Sean Parker Center for Allergy and Asthma Research  
**Amount:** \$428,790  
**Role:** Co-Researcher; PI: Kari Nadeau, MD, PhD
- 09/2013 – 08/2015  
*The Association of Chronic Exposure to Particulate Matter Air Pollutants, Inflammation, and Atherogenesis in At-Risk El Paso Children*  
**Funding Source:** National Institute of Environmental Health Sciences (NIEHS), NIH  
**Amount:** \$934,926  
**Role:** Research Assistant; PI: Rodrigo Armijos, MD, PhD

**State**

- 11/2019 – 06/2020  
*Association of Traffic and Related Air Pollutants on Cardiorespiratory Risk Factors from Low-Income Populations in El Paso, TX*  
**Funding Source:** U.S. Department of Transportation via Center for Advancing Research in Transportation Emission, Energy, and Health (CARTEEH)  
**Amount:** \$82,618  
**Role:** Principal Investigator (PI)
- 10/2020 – 09/2021  
*Characterization of Community Exposures to Traffic-Related Air Pollution in the Paso del Norte Using Low-Cost Air Sensors*  
**Funding Source:** Texas Commission on Environmental Quality (TCEQ)

**Amount:** \$50,000

**Role:** Co-Researcher; PI: Wen-Whai Li, PhD

- 11/2016 – 07/2019

*Healthy Living, Children's Respiratory Health, and Traffic-Related Air Pollution in an Underserved Community*

**Funding Source:** U.S. Department of Transportation via CARTEEH

**Amount:** \$363,279

**Role:** Research Associate; PI: Wen-Whai Li, PhD

- 05/2017 – 12/2019

*Personal Exposure to Air Pollution in the Vicinity of U.S.–Mexico Border Crossings*

**Funding Source:** U.S. Department of Transportation via CARTEEH

**Role:** Research Associate; PI: Suriya Vallamsundar, PhD

#### Local / Foundation

- 10/2020 – 01/2023

*PFAS-Free Turnout Bio-Monitoring Study & Stanford Active Firefighter Home Kit Acute Exposure Study*

**Funding Source:** San Francisco Firefighters Cancer Prevention Foundation

**Amount:** \$100,000

**Role:** Research Scientist; PI: Kari Nadeau, MD, PhD

- 10/2014 – 01/2020

*Evidence-Based Screening for Obesity, Cardiorespiratory Disease, and Diabetes in Low-Income El Paso Households*

**Funding Source:** City of El Paso Department of Public Health

**Amount:** \$400,000

**Role:** Research Coordinator; PI: Joao Ferreira Pinto, PhD

- 09/2015 – 12/2019

*Community-Based Implementation and Evaluation Support, Healthy Eating Active Living Initiative*

**Funding Source:** Paso del Norte Health Foundation (PDNHF)

**Amount:** \$7,921,696

**Role:** Research Fellow; PI: Leah Whigham, PhD

- 12/2014 – 07/2015

*Association between Chronic Exposure to Air Pollutants and Cardiorespiratory Problems in Low-Income Quito Families in Quito, Ecuador*

**Funding Source:** Environmental Protection Agency (EPA) – UTEP Air Quality Internship

**Role:** UTEP Air Quality Intern; PI: Rodrigo Armijos, MD, PhD

#### PUBLICATIONS:

##### A. Peer-Reviewed Articles in Journals

1. **Aguilera, J.,** Jeon, S., Chavez, M., Ibarra-Mejia, G., Ferreira-Pinto, J., Whigham, L. D., & Li, W. W. (2025). Short-Term Associations of Traffic-Related Air Pollution with Cardiorespiratory Outcomes Among Low-Income Residents from a US–Mexico Border Community. *Atmosphere*, 16(2), 153.

2. Mohammadi, A., Pishgar, E., & **Aguilera, J.** (2025). Spatial Prediction of High-Risk Areas for Asthma in Metropolitan Areas: A Machine Learning Approach. *ISPRS International Journal of Geo-Information*, 14(3), 105.
3. Johnson, M. M., Kaushik, A., Kline, O. A., Smith, E. M., Zhou, X., Pat, Y., Buerger, L., **Aguilera, J.**, Alkotob, S., Simonin, E. M., Favaro, A., Couto, M., Bennett, O., Chinthrajah, R. S., Parsons, E., Shamji, M., Burke, M., Bondy, M., Akdis, M., Akdis, C. A., & Nadeau, K. C. (2025). Immune impacts of fire smoke exposure. *Nature Medicine*, 31, 1–11. <https://doi.org/10.1038/s41591-025-00000>
4. Stotz, S.A., Seligman, H., Yaroch, A.L., Long, C.R., Mitchell, E., Akers, M., Zigmont, V.A., Groves, G., Nugent, N.B., **Aguilera, J.** and Baker, S., 2025. The realities of data derived from electronic health records to evaluate health outcomes, utilization, and cost of produce prescription programs: A multiple case study evaluation. *Journal of Public Health Research*, 14(2), p.22799036251329452.
5. Uwak, I., Shields, M., Vallamsundar, S., Ramani, T., **Aguilera, J.**, Li, W. W. & Johnson, N. M. (2024). Personal Exposure to Polycyclic Aromatic Hydrocarbons: A Pilot Study of Teachers in El Paso, Texas. *Texas Public Health Journal*, 76(3).
6. Gould, C. F., Heft-Neal, S., Prunicki, M., **Aguilera, J.**, Burke, M., & Nadeau, K. (2024). Health Effects of Wildfire Smoke Exposure. *Annual Review of Medicine*, 75. <https://doi.org/10.1146/annurev-med-052422-020909>
7. **Aguilera, J.**, Konvinse, K., Lee, A., Maecker, H., Prunicki, M., Mahalingaiah, S., ... & Nadeau, K. C. (2023). Air Pollution and Pregnancy. In *Seminars in Perinatology* (p. 151838). WB Saunders. <https://doi.org/10.1016/j.semperi.2023.151838>
8. **Aguilera, J.**, Kaushik, A., J., Cauwenberghs, Smith, E., Heider, A., Ogulur, I., Alkotob, S., Akdis, C., Nadeau, K., & Prunicki, M. (2023). Granzymes, IL-16, and poly(ADP-ribose) polymerase 1 increase during wildfire smoke exposure. *Journal of Allergy and Clinical Immunology: Global*, 100093. <https://doi.org/10.1016/j.jacig.2023.100093>
9. **Aguilera J.**, Jeon S., Raysoni A., Li WW., & Whigham L. (2023). Moderate to vigorous physical activity levels negatively correlate with traffic-related air pollutants in children with asthma attending a school near a freeway. *Journal of Environmental Health* 8(5), 16-24. <https://www.proquest.com/docview/2787674027>
10. Sampath, V., **Aguilera, J.**, Prunicki, M., & Nadeau, K. C. (2023). Mechanisms of climate change and related air pollution on the immune system leading to allergic disease and asthma. In *Seminars in Immunology* (p. 101765). Academic Press. <https://doi.org/10.1016/j.smim.2023.101765>
11. Bhowmik, R. T., Jung, Y. S., **Aguilera, J.**, Prunicki, M., & Nadeau, K. (2023). A multi-modal wildfire prediction and early-warning system based on a novel machine learning framework. *Journal of Environmental Management*, 341, 117908. <https://doi.org/10.1016/j.jenvman.2023.117908>
12. Lee, A. S., **Aguilera, J.**, Efobi, J. A., Jung, Y. S., Seastedt, H., Shah, M. M., Yang, E., Konvinse, K., Utz, P. J., Sampath, V., & Nadeau, K. C. (2023). Climate change and public health: The effects of global warming on the risk of allergies and autoimmune diseases. *EMBO reports*, e56821. <https://doi.org/10.15252/embr.202356821>
13. Jung, Y. S., Sampath, V., Prunicki, M., **Aguilera, J.**, Allen, H., LaBeaud, D., Veidis, E., Barry, M., Erny, B., Akdis, C., Akdis, M., & Nadeau, K. (2022). Characterization and regulation of microplastic pollution for protecting planetary and human health. *Environmental Pollution*, 120442. <https://doi.org/10.1016/j.envpol.2022.120442>



14. **Aguilera J**, Han X, Cao S, Balmes J, Lurmann F, Tyner T, Lutsker L, Noth E, Hammond K, Sampath V, Burt T, Utz PJ, Khatri P, Aghaeepour N, Holden M, Prunicki M, Nadeau K (2022). *Increases in ambient air pollutants during pregnancy are linked to increases in methylation of IL4, IL10, and IFN $\gamma$* . *Clinical Epigenetics*, 14(1), 1-13. <https://doi.org/10.1186/s13148-022-01254-2>
15. Agache I, Sampath V, **Aguilera J**, Akdis Cm Barry M, Bouagnon A, Chinthrajah S, Collins W, Dulitzki C, Erny B, Gomez J, Goshua A, Jutel M, Kizer K, Kline O, LaBeaud A, Pali I, Perret K, Peters R, Plaza M, Prunicki M, Sack T, Salas R, Sindher S, Sokolow S, Thiel C, Veides E, Wray, B, Traidi C, Witt C, Nadeau K (2022). *Climate Change and Global Health: A Call to more Research and more Action*. *Allergy*, <https://doi.org/10.1111/all.15229>
16. Rangel A, Raysoni AU, Chavez MC, Jeon S, **Aguilera J**, Whigham LD, Li WW (2021). *Assessment of traffic-related air pollution (TRAP) at two near-road schools and residence in El Paso, Texas, USA*. *Atmospheric Pollution Research*, <https://doi.org/10.1016/j.apr.2021.101304>.
17. **Aguilera J**, Soyoungh J, Chavez M, Ibarra G, Ferreira-Pinto J, Whigham L, Li WW (2021). *Land Use Regression of Long-Term Transportation Data on Metabolic Syndrome Risk Factors in Low-income Communities*. *Transportation Research Record*. [doi.org/10.1177/03611981211021853](https://doi.org/10.1177/03611981211021853)
18. Bae HR, Chandy M, **Aguilera J**, Smith EM, Nadeau K, Wu JC, Paik, DT (2021). *Adverse effects of air pollution-derived fine particulate matter on cardiovascular homeostasis and disease*. *Trends in Cardiovascular Medicine*. <https://doi.org/10.1016/j.tcm.2021.09.010>
19. **Aguilera, J** (2020). *Associations of Traffic Related Air Pollution with Physical Activity and Cardiorespiratory Health Outcomes in At-Risk Populations from El Paso, Texas*. Doctoral Dissertation, The University of Texas at El Paso. Scholar Works. [https://scholarworks.utep.edu/open\\_etd/3077](https://scholarworks.utep.edu/open_etd/3077)
20. Redelfs, A H, **Aguilera, J**, & Ruiz, S L (2019). *Practical Strategies to Improve Your Writing: Lessons Learned from Public Health Practitioners Participating in a Writing Group*. *Health promotion practice*, <https://doi.org/10.1177/1524839919838398>.
21. **Aguilera, J**, & Whigham, L D (2018). *Using the 13C/12C carbon isotope ratio to characterise the emission sources of airborne particulate matter: a review of literature*. *Isotopes in environmental and health studies*, 54(6), 573-587. <https://doi.org/10.1080/10256016.2018.1531854>
22. **Aguilera, J**. (2016). *Prevalence of risk factors for metabolic syndrome in uninsured Hispanic adults from low-income communities in El Paso, Texas*. Master's Thesis, The University of Texas at El Paso. Scholar Works. <https://scholarworks.utep.edu/dissertations/AAI10151250>

#### B. Invited Articles (Editorials, etc.) in Journals

1. **Aguilera, J.**, Ibarra-Mejia, G., & Johnson, M. (2023). *Exploring the Impact of Climate Change on Allergic Disease: New Insights and Challenges*. *Frontiers in Allergy*, 4, 1246899. <https://doi.org/10.3389/falgy.2023.1246899>
2. Evans-Agnew, R. A., & **Aguilera, J.** (2023). *Climate Justice Is Environmental Justice: System Change for Promoting Planetary Health and a Just Transition From Extractive to Regenerative Action*. *Health Promotion Practice*, 24(4), 597-602. <https://doi.org/10.1177/152483992311719>

#### C. Book and Book Chapters

1. Vyas, P., & **Aguilera, J.** (2025). *GIS Mapping for Community Health and Development: A Toolkit for Policymakers and Practitioners*. Taylor & Francis.

2. Agache, I. O., Sampath, V., **Aguilera, J.**, & Nadeau, K. C. (2024). Respiratory Disorders. *Climate Change and Public Health*, 86.

#### D. Abstracts

1. **Aguilera, J.**, Griffin, C., Del Rio, K., Yanez, M., Mena, A., Orozco, R. and Whigham, L., (2025). Assessing the Effectiveness of a Produce Prescription Program on Fruit and Vegetable Intake and Cardiovascular Health in Underserved Communities. *Current Developments in Nutrition*, 9.
2. **Aguilera, J.**, Alarcon, P., Abasilim, O., Gallegos, G., Whigham, L., & Racine, B. (2025). Challenges and resilience in food supply chains: A scoping review of needs assessments in the U.S.-Mexico border counties of Texas and New Mexico. *Texas Public Health Journal*.
3. **Aguilera, J.**, Del Rio, K., Martínez, E., & Whigham, L. (2024). Segmented dynamics of physical activity across BMI thresholds in Latino adults: Insights from wearable fitness data. In *Obesity*. <https://doi.org/10.1002/oby.24195>
4. **Aguilera, J.**, Pinzon-Gomez, C., Atkinson, J., & Fernandez-Esquer, M. (2024). Assessing environmental health risks for day laborers in Houston: A geospatial analysis of air pollution, heat, and industrial proximity. In *APHA 2024 Annual Meeting and Expo*. APHA.
5. Del Rio, K., & **Aguilera, J.** (2024). Acculturation and its implications on BMI and waist circumference among hispanic immigrants from low-income communities at the US-Mexico border. In *APHA 2024 Annual Meeting and Expo*. APHA.
6. Ruiz, S., **Aguilera, J.**, Redelfs, A. H., Perez, D. A., Swartz, M. D., Dhurandhar, N. V., & Whigham, L. D. (2024). Association of BMI With Accuracy of Estimating Calorie Content of Food: Dietetic vs. Non-dietetic Professionals. *Current Developments in Nutrition*, 8.
7. Jung, Y.S., Ha, J.W., **Aguilera, J.**, Kaushik, A., Cansdale, S., Yang, E., Dermadi, D., Lurmann, F., Lutzker, L., Hammond, K. and Balmes, J.& Nadeau, K. (2024). Air Pollution and Pregnancy: Insights into Immune Response, Histone Modifications, and Cytokine Signatures. *Journal of Allergy and Clinical Immunology*, 153(2), AB370.
8. **Aguilera, J.**, Perez, D., Redelfs, A., & Whigham, L. (2023). Association Between Skin Carotenoids and Body Composition in a Hispanic Border Community. In *OBESITY* (Vol. 31, pp. 239-240).
9. **Aguilera J.**, Redelfs, A., Martinez, E., & Whigham, L. (2023). The Impact of Objective Measures for Community Nutrition Program Evaluation. *Current Developments in Nutrition*, 7(Supplement 1), 100208. <https://doi.org/10.1016/j.cdnut.2023.100208>
10. Redelfs, A., Jolley, C., **Aguilera, J.**, Spruance, L., & Whigham, L. (2023). Pooled Analysis of Dermal Carotenoids in Children/Youth Using Reflectance Spectroscopy. *Current Developments in Nutrition*, 7(Supplement 1), 100219. <https://doi.org/10.1016/j.cdnut.2023.100219>
11. **Aguilera, J.**, Cauwenberghs, N., Kaushik, A., Smith, E., Heider, A., Ogulur, I., Alkotob, S., Akdis, C., Nadeau, K., & Prunicki, M. (2023). Proteomic and Immune Cell Alterations Upon Wildfire Smoke Exposure. *Journal of Allergy and Clinical Immunology*, 151(2), AB212.
12. Ha, J. W., **Aguilera, J.**, Jung, Y. S., Cansdale, S., Lurmann, F., Lutzker, L., ... & Prunicki, M. (2023). The impacts of ambient air pollution exposure during pregnancy on maternal and neonatal inflammatory biomarkers. *Journal of Allergy and Clinical Immunology*, 151(2), AB119.
13. **Aguilera, J.**, Han, X., Cao, S., Prunicki, M., & Nadeau, K. (2022). Exposure to ambient air pollutants during pregnancy is linked to IL4, IL10, and IFN $\gamma$  gene methylation and fewer Th1, Th2, and Th17 cell populations. *Journal of Allergy and Clinical Immunology*, 149(2), AB139.
14. **Aguilera, J.**, Han, X., Cao, S., Prunicki, M., & Nadeau, K. (2021). Exposure to NO $_2$ , CO, and PM during pregnancy is linked to a decreased Th2 percentage and anti-inflammatory cytokines. In *ALLERGY* (Vol. 76, pp. 310-310).

15. Rodriguez, L. A., Morales-Acuna, F., **Aguilera, J.**, & Gurovich, A. N. (2020). Reliability of a Novel Ultrasound Transducer Holder for Flow-Mediated Dilation. *The FASEB Journal*, 34(S1), 1-1.
16. **Aguilera, J.**, Jeon, S., Chavez, M., Ibarra-Mejia, G., Pinto, J. F., Li, W. W., & Whigham, L. (2020, November). Associations of Traffic and Air Pollution with Obesity and Fasting Glucose in Low-Income Populations. *In OBESITY* (Vol. 28, pp. 9-9).
17. Ruiz, S., **Aguilera, J.**, Perez, D. A., Redelfs, A. H., Dhurandhar, N., & Whigham, L. (2019). Accuracy of calorie perceptions in individuals who are attempting to lose weight (p16-062-19). *Current Developments in Nutrition*, 3(Supplement\_1), nzz050-P16.
18. **Aguilera J.**, Jeon, S., Chavez, M., & Whigham, L. (2018). Moderate to vigorous physical activity levels negatively correlate with traffic related air pollutants in children with asthma attending a school near a freeway. *Transport Research International Documentation*
19. **Aguilera, J.**, Magallanes, P., Morales, E., Magallanes, F., Atkinson, R., & Whigham, L. (2017). Evaluation of Diabetes Remission in Patients Undergoing Jejunum-Ileal Bypass with Internal Fistula in Juarez, MX. *Surgery for Obesity and Related Diseases*, 13(10), S132-S133.

#### E. Reports and Program Evaluations

1. **Aguilera, J.**, Griffin, C., Del Rio, K., Idris, A., Marquez, I., Prieto, P. (2025). *Desert Spoon, "TasterSpace" Evaluation Report*. Community Health Impact Projects in El Paso, Texas.
2. **Aguilera, J.**, Griffin, C., Del Rio, K., Idris, A., Marquez, I. (2025). *La Semilla, "Cultivating Health with Veggie Scripts & Gardening" Evaluation Report*. Center for Community Health Impact Projects in El Paso, Texas.
3. **Aguilera, J.**, Griffin, C., & Whigham, L. (2024). *Desert Spoon, "TasterSpace" Evaluation Report*. Center for Community Health Impact, El Paso, Texas.
4. **Aguilera, J.**, Griffin, C., & Whigham, L. (2024). *El Paso Independent School District "Raise the Bar" Evaluation Report*. Center for Community Health Impact, El Paso, Texas.
5. **Aguilera, J.**, Martinez, E., & Whigham, L. (2023). *Desert Spoon, "TasterSpace" Evaluation Report*. Center for Community Health Impact, El Paso, Texas.
6. **Aguilera, J.**, Martinez, E., & Whigham, L. (2023). *La Semilla, "Cultivating Health with Veggie Scripts & Gardening" Evaluation Report*. Center for Community Health Impact, El Paso, Texas.
7. **Aguilera, J.**, Martinez, E., & Whigham, L. (2023). *El Paso Independent School District "Raise the Bar" Evaluation Report*. Center for Community Health Impact, El Paso, Texas.
8. Martinez, E., **Aguilera, J.**, & Whigham, L. (2022). *La Semilla, "Cultivating Health with Veggie Scripts & Gardening" Evaluation Report*. Center for Community Health Impact, El Paso, Texas.
9. Martinez, E., **Aguilera, J.**, & Whigham, L. (2022). *Desert Spoon, "TasterSpace" Evaluation Report*. Center for Community Health Impact, El Paso, Texas.
10. Jeon, S., **Aguilera, J.**, Whigham, L., & Li, W. W. (2021). Association of Traffic and Related Air Pollutants on Cardiorespiratory Risk Factors From Low-Income Populations in El Paso, TX. (UTEP-03-27) Center for Advancing Research in Transportation Emissions, Energy, and Health. Texas A&M Transportation Institute. [https://rosap.nrl.bts.gov/view/dot/56858/dot\\_56858\\_DS1.pdf](https://rosap.nrl.bts.gov/view/dot/56858/dot_56858_DS1.pdf)
11. Vallamsundar, S., Uwak, I., Ramani, T., Jaikumar, R., Johnson, N.M., Trueblood, A., **Aguilera, J.**, Ramirez, I.M., Whigham, L. and Li, W.W (2021). Personal Exposure to Air Pollution in the Vicinity of US-Mexico Border Crossings (No. 01-03-TTI). Center for Advancing Research in Transportation

Emissions, Energy, and Health. Texas A&M Transportation Institute.  
<https://rosap.ntl.bts.gov/view/dot/67302>

12. Li WW, Raysoni AU, Jeon S, Whigham L, **Aguilera J**, Rangel A, Chavez MC, Ramirez IM, (2019). Healthy Living, Children's Respiratory Health, and Traffic-Related Air Pollution in an Underserved Community, (No. CARTEEH Project 4). Center for Advancing Research in Transportation Emissions, Energy, and Health. Texas A&M Transportation Institute.  
<https://www.carateeh.org/wp-content/uploads/2021/01/01-04-UTEP-Healthy-Living-Childrens-Respiratory-Health-and-Traffic-Related-Air-Pollution-in-an-Underserved-Community-Li.pdf>

## F. Other Professional Communications

### 1. Presentations (local, regional, national, international)

1. **Aguilera, J.** (2025, Sep). *Air Quality and Public Health* [Panelist, Session 2A]. Air Quality Houston Regional Summit, hosted by the Houston-Galveston Area Council, in preparation for the FIFA World Cup 2026. Houston, TX.
2. **Aguilera, J.** (2025, Aug). *Mapping Environmental Risks at Houston's Day Labor Corners: Air Pollution, Heat, and Worker Exposure* [Poster Presentation]. ISES–ISEE Joint Annual Conference, Atlanta, GA.
3. **Aguilera, J.,** (2025, Jun). *Assessing the Effectiveness of a Produce Prescription Program on Fruit and Vegetable Intake and Cardiovascular Health in Underserved Communities.* American Society for Nutrition. ASN 2025 Annual Conference, Orlando, FL.
4. **Aguilera, J., & Alarcon, P.** (2025, May). *Challenges and Resilience in Food Supply Chains: A Scoping Review of Needs Assessments in the U.S.–Mexico Border* [Oral Presentation]. Texas Public Health Association (TPHA) Annual Conference, Brownsville, TX.
5. **Aguilera, J.** (2025, May). *Opening Remarks on Climate and Health in the Border Region.* 2nd El Paso Climate Summit, hosted by the Chihuahuan Desert Climate Collaborative. El Paso, TX.
6. **Aguilera, J.** (2025, May). *Segmented dynamics of physical activity across BMI thresholds in Latino adults: Insights from wearable fitness data.* Oral Presentation. *Medical Center of the Americas Biotech Showcase.* El Paso, TX.
7. **Aguilera, J.** (2025, Apr). *Local Air Quality: Research and Recommendations on Heat and Health* [Invited Presentation]. New Mexico Heat Summit, Albuquerque, NM.
8. Proaño, G., **Aguilera, J.**, Cox, G., & Adeola, O. K. (2025, Apr). *Empowering a diversified health workforce: Insights from the NextGen Scientist Program.* Conference panel. Diversify Dietetics Annual Summit [Virtual].
9. Ghosh, J. K., & **Aguilera, J.** (2025, Feb). *Population Health Matters: Wildfire recovery and future preparedness* [Livestream panel]. Heluna Health.
10. **Aguilera, J.**, Del Rio, K., Martínez, E., & Whigham, L. (2024, Nov). Segmented dynamics of physical activity across BMI thresholds in Latino adults: Insights from wearable fitness data. Poster Presentation. *ObesityWeek 2024.* San Antonio, TX
11. **Aguilera J.**, Pinzon-Gomez, C., Atkinson, J., & Fernandez-Esquer, M. (2024, Nov). Assessing environmental health risks for day laborers in Houston: A geospatial analysis of air pollution, heat, and industrial proximity. *In APHA 2024 Annual Meeting and Expo.* APHA.
12. Del Rio, K., & **Aguilera, J.** (2024, Nov). Acculturation and its implications on BMI and waist circumference among Hispanic immigrants from low-income communities at the US-Mexico border. Poster Presentation *In APHA 2024 Annual Meeting and Expo.* APHA.

13. **Aguilera, J.** Cox, G., Oluwakemi, A., Frantzen, L., Unger, A. (2024, Oct). The Future Is Now: NextGen Scientists Shape Dairy Nutrition. Panel Presentation. *2024 Joint Annual Meeting of the National Dairy Promotion and Research Board (NDB), National Milk Producers Federation (NMPF), and United Dairy Industry Association (UDIA)*. Phoenix, AZ
14. Ruiz, S., **Aguilera, J. A.**, Redelfs, A. H., Perez, D. A., Swartz, M. D., Dhurandhar, N. V., & Whigham, L. D. (2024, Jul). Association of BMI With Accuracy of Estimating Calorie Content of Food: Dietetic vs. Non-dietetic Professionals. Poster Presentation. *American Society of Nutrition Annual Meeting 2024*. Chicago, IL
15. **Aguilera J.** (2024, May). Association Between Skin Carotenoids and Body Composition in a Hispanic Border Community. Oral Presentation. Medical Center of the Americas. El Paso, TX
16. Fernandez-Esquer M, Monforton C, Pereira A, Pinzon C, **Aguilera J** (2024, May) Vales+Tu: A Program to Reduce Workplace Injuries Among Latino Day Laborers. Oral Presentation. Southwest Center for Occupational and Environmental Health, UTHealth Houston School of Public Health. (Online)
17. **Aguilera, J** (2024, Apr). Relationships between Air Pollution and Cardiorespiratory Health in El Paso, TX, Oral Presentation. Environmental Health Information Partnership, National Libraries of Medicine, El Paso, TX
18. **Aguilera, J** (2024, Apr). Relationships between Air Pollution and Our Communities Health, Oral Presentation. Community Climate Action Summit, El Paso, TX
19. **Aguilera J.** (2024, Mar). The Latino Paradox. Oral presentation. 7<sup>th</sup> Annual Latino Health Summit. Houston, TX
20. **Aguilera J**, Redelfs A, Perez D, Whigham L. (2023, Oct). Association Between Skin Carotenoids and Body Composition in a Hispanic Border Community. Poster Presentation. ObesityWeek 2023. Dallas. TX
21. **Aguilera, J** (2023, Oct). Health Screenings in Low-Income Communities: Environmental Impacts on Metabolic Outcomes. Guest Lecture, Fall 2023 PH1433 Research Seminar in Health Promotion and Behavioral Sciences. UTHealth Houston
22. **Aguilera J.**, Redelfs, A., Martinez, E., & Whigham, L. (2023, Jul). The Impact of Objective Measures for Community Nutrition Program Evaluation. Poster Presentation. American Society for Nutrition. Boston, MA.
23. Redelfs, A., Jolley, C., **Aguilera, J.**, Spruance, L., & Whigham, L. (2023, Jul). Pooled Analysis of Dermal Carotenoids in Children/Youth Using Reflectance Spectroscopy. Poster Presentation. American Society for Nutrition. Boston, MA.
24. **Aguilera, J.** (2023, April). Protecting our panel and our health. Panelist at the 75th Conference on World Affairs in Boulder, CO, 2023
25. **Aguilera, J.** (2023, April). An uncertain future: Climate change concerns for the next generation. Panelist at the 75th Conference on World Affairs in Boulder, CO, 2023
26. **Aguilera, J.** (2022, Nov). The role of epigenetics in asthma and allergy. Presented at the XLIX Brazilian Congress of Allergy and Immunology, São Paulo, Brazil.
27. **Aguilera, J.**, Cauwenberghs, N., Kaushik, A., Smith, E., Heider, A., Ogulur, I., Alkotob, S., Akdis, C., Nadeau, K., & Prunicki, M. (2023, Feb). Proteomic and Immune Cell Alterations Upon Wildfire Smoke Exposure. Poster presentation. AAAAI 2023, San Antonio, TX
28. **Aguilera, J.**, Ha, J. W., Jung, Y. S., Cansdale, S., Lurmann, F., Lutzker, L., ... & Prunicki, M. (2023, Feb). The impacts of ambient air pollution exposure during pregnancy on maternal and neonatal inflammatory biomarkers. Oral presentation. AAAAI 2023, San Antonio, TX

29. **Aguilera, J.** (2022, Sep). The Air We Breathe. Panel presentation. German General Consulate San Francisco, Palo Alto, CA.
30. **Aguilera, J.** (2022, May). Healthy Air for All. Presented to the National Call of Elders Climate Action, Stanford, CA.
31. **Aguilera, J.** (2022, Jun). Immune Changes and Disease in Humans Related to Climate Change and Air Pollution. Presented at the EXIMIOUS Symposium on Immune Differentiation Linked to Age and Exposure.
32. **Aguilera, J.** (2022, Jun). Served as Mentor at Training Session. Climate Reality Leadership Corps, Las Vegas, NV.
33. **Aguilera J,** Prunicki M, (2022, Oct) Wildfire and health related outcomes. Oral presentation. American Lung Association's wildfire management training. Denver, CO
34. **Aguilera J,** Cauwenberghs N, Smith E, Kaushik A, Heider A, Akdis C, Prunicki M, Nadeau K (2022, Jul) Symptomatology, immune changes, and proteomic alterations, in subjects exposed to wildfire smoke. World Immune Regulation Meeting. Davos, Switzerland.
35. Prunicki M, **Aguilera J,** Kline O, Smith E, Lopez A, Cansdale S, Fendorf S, Nadeau K Associations of PFAS compounds and heavy metal exposures in firefighters (2022, Jul). World Immune Regulation Meeting. Davos, Switzerland.
36. Ha JW, **Aguilera J,** Cansdale S, Burt TD, Aghaeepour N, Waldrop A, Khatri P, Utz PJ, Maecker HT, Nadeau K, Prunicki M, (2022, Jul). Ambient air pollution exposure associated with immune biomarkers during pregnancy. Poster presentation. World Immune Regulation Meeting. Davos, Switzerland.
37. Efofi J, **Aguilera J,** Ha JW, Burt TD, Aghaeepour N, Waldrop A, Khatri P, Utz PJ, Maecker HT, Nadeau K, Prunicki M, (2022, Jun) Associations of ambient air pollution exposure to NO<sub>x</sub>, PAH, and EC, with immune biomarkers during pregnancy. Stanford Center for Innovation in Global Health. Stanford, CA
38. **Aguilera J,** Mueller S, Kripa E (2022, Apr). The Intersection of Health and Environment. Oral session. 150 Miles: Health in the Borderlands. Austin, TX.
39. Pedler J, Kline O, Lopez A, **Aguilera J,** Prunicki M, Nadeau K (2022, Mar) Positive Association Between Urinary Toxic Metal Levels and Duration of Wildfire Smoke. Oral presentation. Consortium of Universities for Global Health (Virtual).
40. **Aguilera J,** Han X, Cao S, Prunicki M, & Nadeau K. (2022, Feb). Exposure to ambient air pollutants during pregnancy is linked to IL4, IL10, and IFN $\gamma$  gene methylation and fewer Th1, Th2, and Th17 cell populations. Oral presentation. American Academy of Allergy, Asthma & Immunology (AAAAI), Phoenix, AZ.
41. **Aguilera J,** Han X, Cao S, Prunicki M, Nadeau K (2021, Jul). Exposure to NO<sub>2</sub>, CO, and PM during pregnancy is linked to a decreased Th2 percentage and anti-inflammatory cytokines. Poster presentation. European Academy of Allergy and Clinical Immunology (EAACI) Hybrid Congress 2021. Krakow – Poland (Digital)
42. **Aguilera J,** Han X, Cao S, Prunicki M, Nadeau K (2021, Jun). The association of ambient air pollution exposure with immune biomarkers during pregnancy. Oral presentation. 15th World Immune Regulation Meeting. Davos – Switzerland (Digital)
43. **Aguilera J,** Han X, Cao S, Prunicki M, Nadeau K (2021, Jun). Links of exposure to ambient air pollutants during pregnancy with a decreased Th1 percentage and inflammatory cytokines. Oral presentation. 15th World Immune Regulation Meeting. Davos – Switzerland (Digital)

44. Akhbir L, Heroux D, Prunicki M, **Aguilera J**, Putnam D, Nadeau K, Denburg J (2021, Jun). Maternal Asthma Risk in Relation to Infant and Early Life Hematopoietic Progenitor Cell Profiling: Evidence for in utero Innate Immune Memory. Federation of Clinical Immunology Societies. Virtual Annual Meeting
45. **Aguilera J**, Soyounng J, Chavez M, Ibarra G, Ferreira-Pinto J, Whigham L, Li WW (2021, May). Short term effects of traffic related air pollution on cardiorespiratory outcomes among low-income residents, Oral presentation, 2nd Transportation, Air Quality, and Health Symposium
46. **Aguilera J**. (2021, Mar). Audience Centered Approaches to Improve Health. Oral presentation, Society for Public Health Education 2021, Virtual Conference.
47. **Aguilera J**, Soyounng J, Chavez M, Ibarra G, Ferreira-Pinto J, Whigham L, Li WW (2021, Jan). Land Use Regression of Long-Term Transportation Data on Metabolic Syndrome Risk Factors in Low-income Communities. Oral presentation. Transportation Research Board Annual Meeting
48. **Aguilera J**, Soyounng J, Chavez M, Ibarra G, Ferreira-Pinto J, Whigham L, Li WW (2020, Nov). Associations of Traffic and Related Air Pollutants with Obesity and Glucose in Low-Income Populations in El Paso, TX. Oral presentation, ObesityWeek Interactive
49. **Aguilera J**, Smith E, Prunicki M, Nadeau K (2020, Nov). Wildfire symptoms before and after an exposure event. Poster presentation. Cooperative Centers for Human Immunology (CCHI) Annual Programmatic Meeting.
50. **Aguilera J**, Soyounng J, Chavez M, Ibarra G, Ferreira-Pinto J, Whigham L, Li WW (2020, Jul). Short term effects of traffic related air pollution on cardiorespiratory outcomes among low-income residents, oral presentation, Joint Advisory Committee (JAC) for the improvement of air quality in the Ciudad Juarez, Chihuahua/El Paso, Texas/Dona Ana County, New Mexico air basin
51. **Aguilera J**, Soyounng J, Chavez M, Ibarra G, Ferreira-Pinto J, Whigham L, Li WW (2020, Jul). Land Use Regression of Long-Term Transportation Data on Metabolic Syndrome Risk Factors in Low-income Communities. Joint Advisory Committee (JAC) for the improvement of air quality in the Ciudad Juarez, Chihuahua/El Paso, Texas/Dona Ana County, New Mexico air basin
52. **Aguilera J**, Del Rio K, Guillen CP, Rodriguez M, Martinez E, Ferreira-Pinto J. (2020, Mar). Interdisciplinary team approach to facilitate access to healthcare for uninsured/low-income residents in partnership with a local food bank in El Paso, TX. Oral presentation. SOPHE 2020.
53. **Aguilera J**, Perez D, Redelfs A, Hassan A, Martin K, Whigham L. (2019, Nov) Evaluation of Change in Fruit and Vegetable Intake and Body Composition in a Food Pantry Initiative, Poster presentation, ObesityWeek 2019, Las Vegas, NV
54. Nyachoti D, **Aguilera J**, Perez D, Hassan A, Redelfs A, Whigham L. (2019, Nov) Evaluation of Impact of a Multi-School Gardening Intervention on Fruit and Vegetable Intake, Poster presentation, ObesityWeek 2019, Las Vegas, NV
55. Ruiz S, **Aguilera J**, Perez D, Redelfs A, Dhurandhar N, Whigham L. (2019, Nov) Does Percent Body Fat Influence the Accuracy of Calorie Perception? Poster presentation, ObesityWeek 2019, Las Vegas, NV
56. Wijayatunga N, Sandoval A, **Aguilera J**, Whigham L, Dhurandhar E. (2019, Nov) A systematic review: Association of Socioeconomic Status with Objectively Measured Physical Activity, Poster presentation, ObesityWeek 2019, Las Vegas, NV
57. Hopkins P, Hassan A, **Aguilera J**, Ruiz S, Redelfs A, Dhurandhar N, Whigham L. (2019, Nov) Determining the association of Fruit and Vegetable Intake between Dieters and Non-Dieters, Poster presentation, ObesityWeek 2019, Las Vegas, NV

58. Marquez I, Del Rio K, Vazquez D, **Aguilera J.** (2019, Nov) Lessons learned from the Medicaid Waiver project university partnerships: Highlights of the Border Public Health Interest Group collaboration in El Paso, TX, Poster presentation, American Public Health Association, Philadelphia, PA
59. Del Rio K, **Aguilera J,** Ferreira-Pinto J. (2019, Nov) Prevalence of risk factors for metabolic syndrome among members of Faith-based organizations in El Paso, Texas, Poster presentation, American Public Health Association, Philadelphia, PA
60. Ruiz S, **Aguilera J,** Perez D, Dhurandhar N, Whigham L. (2019, Jun) Accuracy of calorie perceptions in individuals who are attempting to lose weight or have a weight concern, Poster presentation, Nutrition 2019, Baltimore, MD
61. Del Rio K, **Aguilera J.** (2019, Apr) Metabolic syndrome in low-income communities: GIS mapping as a tool for surveillance; Flash presentation, Southwest Institute for Health Disparities Research conference; Las Cruces, NM
62. Del Rio K, **Aguilera J,** Ferreira-Pinto J. (2019, Mar) Metabolic syndrome in low-income communities: GIS mapping as a tool for surveillance. Poster presentation, NMPHA; Las Cruces, NM
63. **Aguilera J,** Perez D, Redelfs A, Jeon S, Raysoni A, Li WW, Whigham L. (2019, Feb) Relationship Between Physical Activity, Fruits and Vegetables, and Air Quality in Children with Asthma; Oral Presentation, Transportation, Air Quality, and Health Symposium; Austin, TX
64. **Aguilera J,** Whigham L. (2019, Feb) Using the 13C/12C Carbon Isotope Ratio to Characterize the Emission Sources of Airborne Particulate Matter; Poster presentation, Transportation, Air Quality, and Health Symposium; Austin, TX
65. Raysoni A, Jeon S, **Aguilera J,** Li WW. (2019, Feb) Assessment of Asthma Control Questionnaire as a Metric for Children's Traffic Air Pollution Exposures at Two Roadside El Paso Elementary Schools; Oral presentation, Transportation, Air Quality, and Health Symposium; Austin, TX
66. **Aguilera J,** Jeon S, Raysoni A, Rangel A, Whigham L, Li WW. (2019, Jan) Moderate to vigorous physical activity levels negatively correlate with traffic related air pollutants in children with asthma attending a school near a freeway; Poster presentation, Transportation Research Board's Annual Meeting; Washington, DC
67. **Aguilera J,** Perez D, Redelfs A, Whigham L. (2018, Nov) Impact of a Multi-school Garden Program on Student Fruit and Vegetable Intake. Poster presentation, ObesityWeek, Nashville, TN
68. Del Rio K, **Aguilera J,** Whigham L, Ferreira-Pinto J. (2018, Nov) High prevalence of obesity and cardiovascular risk factors in a Hispanic population without health insurance. Poster presentation, ObesityWeek; Nashville, TN
69. Raysoni A, Soyoung J, **Aguilera J,** Whigham L, Garcia S, Garcia M, Rangel A, Chavez M, Ramirez I, Li WW (2018, Nov). Airway inflammation and lung function measurements in children with asthma at two road-side elementary schools in El Paso, TX, Oral session, American Public Health Association Annual Meeting & Expo; San Diego, CA
70. **Aguilera J,** Del Rio K (2018, Nov). Evidence Based Screenings for Cardiorrespiratory Health Outcomes among Uninsured College Hispanic Students in El Paso Texas; Panel presentation, University of Texas at El Paso Graduate Research Expo; El Paso, TX
71. **Aguilera J** (2018, Nov). School near a freeway: Health outcomes for children with asthma; Connector presenter, 6th Interdisciplinary Research Education Symposium, University of Texas at El Paso; El Paso, TX



72. Del Rio K, **Aguilera J**, Whigham L, Ferreira-Pinto (2018, Nov). Prevalence of Obesity and Risk Factors for Metabolic Syndrome among Uninsured College Hispanic Students in El Paso Texas; Poster presentation, 6th Interdisciplinary Research Education Symposium, University of Texas at El Paso; El Paso, TX
73. **Aguilera J**, Chavez M (2018, Sep) Moderate to vigorous physical activity levels negatively correlate with traffic related air pollutants in children with asthma attending a school near a freeway; Oral presentation, Air Quality Joint Advisory Committee; Las Cruces, NM
74. Li W-W, Jeon S, Raysoni A, **Aguilera J**, Whigham L, Rangel A, Chavez M, Ramirez I. (Sep, 2018) Association of respiratory responses with traffic air pollution for asthmatic children attending road schools, Oral presentation, the Air Sensor International Conference, Oakland, CA.
75. **Aguilera J**, Del Rio K, (2017, Nov). Evidence Based Screenings for Cardiorespiratory Health Outcomes in Low Income Communities from El Paso Texas; Oral presentation, Healthier Texas Summit; Austin, TX
76. **Aguilera J**, Magallanes P, Morales E, Magallanes F, Atkinson R, Whigham L (2017, Nov). Evaluation of Diabetes Remission in Patients Undergoing Jejunum-Ileal Bypass with Internal Fistula in Juarez, MX; e-Poster presentation, ObesityWeek; Washington, DC
77. Del Rio K, **Aguilera J**, Whigham L., (2017, Nov). Prevalence of Obesity and Risk Factors for Metabolic Syndrome among Uninsured College Hispanic Students in El Paso Texas; Poster presentation, ObesityWeek; Washington, DC
78. Armijos RX, Weigel MM, **Aguilera J**, Martinez E, Mejia E, Olvera H, Balogun A, Gonzalez F (2017, Nov). Residence in urban neighborhoods with high ultrafine particulate matter (UFP) air pollution is associated with systemic inflammation and hypertension in U.S.-Mexico border adults; Poster presentation. American Public Health Association Annual Meeting & Expo; Atlanta, GA
79. Armijos RX, Weigel MM, Martinez E, **Aguilera J**, Mejia E, Olvera H, Racines-Orbe M (2017, Nov). Association of chronic exposure to ultrafine particulate matter with pulmonary inflammation, endothelial injury, and arterial thickness in urban U.S.-Mexico border children; Poster presentation. American Public Health Association Annual Meeting & Expo; Atlanta, GA
80. **Aguilera J**, Whigham L. (2017, Sep). Elucidation of the effects of air pollution on asthma using naturally occurring carbon stable isotope ratios; Poster presentation, 2nd Interdisciplinary Research Expo; University of Texas at El Paso, El Paso, TX
81. **Aguilera J**, Ibarra-Mejia G, Redelfs A, Whigham L (2016, Nov). *Prevalence of Risk Factors for Metabolic Syndrome in Uninsured Hispanic Adults from Low-Income Communities in El Paso, Texas*; Poster presentation, ObesityWeek; New Orleans, LA
82. **Aguilera J**, Magallanes P, Magallanes F, Morales I (2016, Oct). *Optimal glucose control and reduction of insulin requirements for patients with Type 1 diabetes that Undergo Jejunum-Ileal Bypass with Internal Fistula*; Poster presentation, 13th Annual Diabetes Conference: Faces of Diabetes, El Paso, TX
83. **Aguilera J** (2016, Apr). *University Career Center Medical Professionals Panel*; Panel presentation; University of Texas at El Paso, El Paso, TX
84. **Aguilera J**, Magallanes P, Magallanes F, Morales I (2015, Oct). *Evaluation of Metabolic Syndrome Components in Diabetic Patients that Undergo Jejunum-Ileal Bypass with Internal Fistula in Juarez, MX since 1984*; Poster presentation, 12th Annual Diabetes Conference: Faces of Diabetes; El Paso, TX
85. **Aguilera J** (2015, Oct). *Medicine and Public Health*; Lecture presentation, 3rd Annual

Interdisciplinary Symposium: 21st Century Developments in Health Promoting Fields;  
University of Texas at El Paso, El Paso, TX

86. **Aguilera J.**, Alvarez C., Mora A (2015, Sep). *Epidemiology Data Management in case of Outbreak/ Emergency and Development of Medical Health Surge protocol for the City of El Paso Department of Public Health*; MPH Practicum Poster presentation, College of Health Sciences; El Paso, TX
87. R.X. Armijos, M.M. Weigel, Martinez E., **Aguilera J.**, Raysoni A (2015, Jan). *Evidence-Based Screening for Cardiorespiratory Health Outcomes in Low-Income Communities from El Paso, Texas*; Poster presentation El Paso Department of Public Health; El Paso, TX
88. Cisneros I, **Aguilera J.**, Martinez E., R.X. Armijos (2014, Nov). *Detection of Pathogens in Bioaerosols in Low-Income Communities in El Paso, Texas*; Poster presentation Annual Biomedical Research Conference for Minority Students; San Antonio, TX
89. Magallanes P, **Aguilera J**, Magallanes F, Morales I (2014, Oct). *Evaluation of Diabetes Remission and Life Expectancy in Patients that Undergo Jejunum-Ileal Bypass with Internal Fistula in Juarez, MX since 1984*; Poster presentation 11th Annual Diabetes Conference: Faces of Diabetes; El Paso, TX
90. Martinez E, **Aguilera J**, Ramirez J, R X Armijos (2014, Feb). *Respiratory Health Effects Induced by Indoor and Outdoor Bioaerosols in El Paso, Texas*; Poster presentation Microbiology Symposium, University of Texas at El Paso; El Paso, TX
91. **Aguilera J** (2013, Oct). *Medicine and Public Health*, Lecture Presentation, 1st Annual Interdisciplinary Symposium: 21st Century Developments in Health Promoting Fields; University of Texas at El Paso, El Paso, TX

## 2. Non-refereed Publications

1. **Aguilera, J.** (2016). Prevalence of risk factors for metabolic syndrome in uninsured Hispanic adults from low-income communities in El Paso, Texas. Master's Thesis, The University of Texas at El Paso. Scholar Works. <https://scholarworks.utep.edu/dissertations/AAI10151250>
2. **Aguilera, J** (2020). Associations of Traffic-Related Air Pollution with Physical Activity and Cardiorespiratory Health Outcomes in At-Risk Populations from El Paso, Texas. Doctoral Dissertation, The University of Texas at El Paso. Scholar Works. [https://scholarworks.utep.edu/open\\_etd/3077](https://scholarworks.utep.edu/open_etd/3077)

## 3. Journal Activities (+170 journal article peer reviews)

- Journal of Allergy and Clinical Immunology (8 articles)
- Journal of Applied Physiology (3 articles)
- Journal of Asthma and Allergy (5 articles)
- Nutrition and Diabetes (Nature) (12 articles)
- Health Promotion Practice Journal (66 articles)
- Metabolic Syndrome and Related Disorders (31 articles)
- Journal of Health Care for the Poor and Underserved (7 articles)
- Air Quality, Atmosphere & Health (8 articles)
- Transportation Research Board (2 articles)
- Transportation Research Record (4 articles)
- Journal of Transport & Health (2 articles)

- American Journal of Preventive Medicine (4 articles)
- Environmental Epidemiology (1 article)
- International Journal of Obesity (4 articles)
- Applied Economics (1 article)
- International Journal of Environmental Research and Public Health (IJERPH) (4 articles)
- Sustainability Journal (2 articles)
- Nursing Reports (1 article)
- Prevention Science (2 articles)
- Environmental Justice (1 article)
- BMC Public Health (Nature) (1 article)
- Toxics (1 article)

#### 4. Videos/Media

**CW39 Houston.** (2025, September). *Hispanic Heritage Month feature: Lack of preventative medical care for Latinos* [Television interview with Dr. Juan Aguilera]. CW39 Houston.

**American Society for Nutrition Foundation.** (2025, April 3). *American Society for Nutrition Foundation announces recipients of National Scientific Achievement Awards.* American Society for Nutrition. <https://nutrition.org/blog/american-society-for-nutrition-foundation-announces-recipients-of-national-scientific-achievement-awards/>

**Heluna Health.** (2025, February). *Population Health Matters: Wildfire Recovery and Future Preparedness* [Livestream panel featuring Dr. Juan Aguilera & Dr. Jo Kay Ghosh]. Heluna Health. <https://helunahealth.org/news/population-health-matters-livestream-on-wildfire-recovery-and-future-preparedness/>

**American Chemical Society.** (2024, June 18). *Wildfire smoke linked to early deaths.* *Chemical & Engineering News.* <https://cen.acs.org/environment/pollution/Wildfire-smoke-linked-early-deaths/102/i19>

**National Public Radio.** (2024, April 18). *Wildfire smoke contributes to thousands of deaths each year in the U.S.* NPR. <https://www.npr.org/2024/04/18/1245068810/wildfire-smoke-contributes-to-thousands-of-deaths-each-year-in-the-u-s>

**Oregon Public Broadcasting.** (2024, April 18). *Wildfire smoke contributes to thousands of deaths each year in the U.S.* OPB. <https://www.opb.org/article/2024/04/18/wildfire-smoke-deaths-climate-change/>

**Public Health Newswire.** (2023, November 28). *APHA honors outstanding leadership in climate, health and equity.* <http://publichealthnewswire.org/?p=climate-awards-202>

**UTHealth Houston School of Public Health.** (2023, November 13). *El Paso Nutrition and Healthy Weight Clinic opens to increase access to medical treatment for weight loss.* <https://sph.uth.edu/news/story/el-paso-nutrition-and-healthy-weight-clinic-opens-to-increase-access-to-medical-treatment-for-weight-loss>

**The City Magazine El Paso.** (2023, November). *[Photographic feature on new Weight Management and Nutrition Clinic]*. <https://thecitymagazineelp.com/>

**MedicalXpress.** (2022, March 8). *Exposure to wildfire smoke linked to altered DNA structure in monkeys.* <https://medicalxpress.com/news/2022-03-exposure-wildfire-linked-dna-monkeys.html>

**Axios.** (2021, September 15). *The future of climate change and lung health* [Video]. YouTube. <https://www.youtube.com/watch?v=eXHW5VnzhO4>

**The Sacramento Bee.** (2021, August 20). *How California's toxic wildfire smoke affects your health. What the experts are saying.* <https://www.sacbee.com/news/california/fires/article253619218.html>

**Telemundo Área de la Bahía.** (2021, August 21). *Mala calidad del aire podría provocar un aumento en los casos de COVID-19.* <https://www.telemundoareadelabahia.com/noticias/local/mala-calidad-del-aire-podria-provocar-un-aumento-en-los-casos-de-covid-19/2174235/>

**Telemundo Área de la Bahía.** (2021, August 18). *Extienden aviso por mala calidad del aire en la Bahía.* <https://www.telemundoareadelabahia.com/noticias/local/humo-de-los-incendios-impacta-calidad-del-aire-en-el-area-de-la-bahia/2173519/>

**STAT.** (2021, March 23). *Wildfire smoke is particularly harmful to kids' respiratory health, study finds.* <https://www.statnews.com/2021/03/23/wildfire-smoke-is-particularly-harmful-to-kids-respiratory-health-study-finds/>

**KFOX14 News.** (2019, May 7). *El Paso MPO says pollutants released by vehicles in bridge lines are increasing.* <https://kfoxtv.com/news/local/el-paso-mpo-says-pollutants-released-by-vehicles-in-bridge-lines-are-increasing>

**KTSM9 News.** (2019, May 8). *Increase in air pollution puts health at risk for those who cross bridge daily.* <https://www.ksm.com/local/el-paso-news/increase-in-air-pollution-puts-health-at-risk-for-those-who-cross-bridge-daily/>

#### **Two Podcasts for Health Promotion Practice (The HPP Podcast)**

- S3 Ep. 29 Exploring Planetary Health and Climate Justice in Health Promotion with Dr. Robin Evans-Agnew, Dr. Juan Aguilera, Jessica LeClair, and De-Ann Sheppard. The HPP Podcast <https://podcasts.apple.com/gb/podcast/s3-ep-29-exploring-planetary-health-and-climate/id1547503833?i=1000621353888>
- S2 Ep. 3 Exploring the Intersection of Environmental and Climate Justice with Dr. Juan Aguilera and Dr. Robin Evans-Agnew. The HPP Podcast <https://podcasts.apple.com/us/podcast/s2-ep-3-exploring-the-intersection-of/id1547503833?i=1000548060025>

#### **MENTORING ACTIVITIES:**

##### **Postdoctoral Scholar**

- Abolore Idris  
Role: Supervisor  
Institution: UTHealth Houston School of Public Health

##### **Doctoral Students**

- Juan Alvarez  
Role: Doctoral Committee Member  
Degree Program: PhD  
Year of Graduation: Expected 2025  
Institution: University of Texas at El Paso (UTEP)  
Dissertation Title: *Effects of Endocrine-Disrupting Chemical (EDC) Exposure on Cardiometabolic Outcomes*  
Current Position: Doctoral Candidate
- Benjamin Ojo  
Role: Doctoral Committee Member  
Degree Program: PhD  
Year of Graduation: Expected 2025  
Institution: University of Texas at El Paso (UTEP)  
Dissertation Title: *Risk Assessment of Kidney Diseases from Outdoor Co-Exposures to Particulate Matter and Heat in Texas Metropolitan Areas*  
Current Position: Doctoral Candidate
- Andrew Vernon  
Role: Doctoral Committee Member  
Degree Program: PhD  
Year of Graduation: Expected 2026  
Institution: University of Texas at El Paso (UTEP)  
Current Position: Doctoral Student
- Lixia Han  
Role: Advisor  
Degree Program: PhD  
Year of Graduation: Expected 2028  
Institution: UTHealth Houston School of Public Health  
Current Position: Doctoral Student
- Juan C Arias  
Role: Co-Advisor  
Degree Program: PhD  
Year of Graduation: Expected 2029  
Institution: UTHealth Houston School of Public Health  
Current Position: Doctoral Student

**Medical / Nursing Students:**

- Emily Troutman  
Role: Capstone Mentor  
Degree Program: MD/MPH  
Institution: Texas Tech University/UTHealth Houston  
Year of Graduation: Expected 2026  
Research Project: *Air Quality and Respiratory Outcomes in the El Paso Borderland*  
Current Position: MD/MPH Student

- Allisa Lazo-Kim  
Role: Independent Project Advisor  
Degree Program: Medicine  
Institution: UC San Diego  
Year of Graduation: 2028  
Research Project: *Impact of Ambient Air Pollutants on Obesity in Hispanic Americans: A Scoping Review*  
Current Position: Medical Student
- Almudena Rodriguez  
Degree Program: Nursing  
Institution: UTEP  
Year of Graduation: 2028

### **Master's Students**

- Colby Griffin  
Role: Advisor  
Degree Program: MPH  
Institution: UTHealth Houston  
Year of Graduation: Expected 2027  
Research Project: *Air Quality and Heat exposure in El Paso, TX*  
Current Position: Graduate Research Assistant
- Garret Coghill  
Role: Independent Research Advisor  
Degree Program: MPH  
Institution: University of Texas at El Paso (UTEP)  
Year of Graduation: Expected 2025  
Research Project: *Evaluation of Cultivating Health with Veggie Scripts and Gardening*  
Current Position: MPH Student
- Youn Soo, Jung  
Role: Independent Research Advisor  
Degree Program: Epidemiology  
Institution: Stanford University  
Year of Graduation: Expected 2025  
Research Project: *Air Pollution and Pregnancy: Insights into Immune Response, Histone Modifications, and Cytokine Signatures*  
Current Position: MPH Student
- Jo Ann Efobi  
Role: Independent Research Advisor  
Degree Program: Bioengineering  
Institution: Stanford University  
Year of Graduation: Expected 2025  
Research Project: *Climate Change and Public Health: The Effects of Global Warming on the Risk of Allergies and Autoimmune Diseases*  
Current Position: MPH Student

- Ivan Ramirez  
Role: Thesis Committee Member  
Degree Program: Master's in Civil Engineering  
Institution: University of Texas at El Paso (UTEP)  
Year: 2021  
Thesis Title: *Sensitivity Analysis of Transportation Emissions on Near-Road Air Dispersion Using the EPA-Approved Gaussian Air Dispersion Model AERMOD*
- Brianda Sarmiento  
Role: Graduate Project Committee Member  
Degree Program: Master's in Public Health  
Institution: University of Texas at El Paso (UTEP)  
Year: 2018  
Project Title: *Literature Review of Air Pollution as an Emergent Risk Factor for Cardiovascular Disease*

### **Research Technicians**

- Ivonne Marquez  
Role: Research Coordinator  
Institution: UTHealth Hosuton  
Years of Supervision: 2025-Present
- Monica Vel  
Role: Research Technician Mentor  
Institution: Stanford University  
Years of Supervision: 2021-2023  
Current Position: Doctoral Student
- Stuart Cansdale  
Role: Research Technician Mentor  
Institution: Stanford University  
Years of Supervision: 2021-2023  
Current Position: Research Associate

### **Faculty Mentees (informal)**

- Sarah Ruiz  
Role: Faculty Mentor  
Institution: New Mexico State University  
Current Position: Assistant Professor
- Jingjing Gao  
Role: Faculty Mentor  
Institution: UTHealth Houston  
Current Position: Assistant Professor
- Priyanka Vyas  
Role: Faculty Mentor  
Institution: Stanford University  
Current Position: Faculty Lecturer

## Undergraduate Students

- Rohan Bhowmik  
Role: Research Mentor  
Institution: Stanford University  
Current Position: Master's Student  
Project Title: *A multi-modal wildfire prediction and early-warning system based on a novel machine learning framework*
- Olivia Kline  
Role: Research Mentor  
Institution: Stanford University  
Current Position: Master's Student  
Project Title: *PFAS-free Turnout Bio-Monitoring Study & Stanford Active Firefighter Home Kit Acute Exposure Study*
- Emma Mejia  
Role: Research Supervisor  
Institution: University of Texas at El Paso (UTEP)  
Current Position: Occupational Therapy Graduate  
Project Title: *Evidence-based Screenings for Cardiorespiratory Disease in Low-income Communities in El Paso, TX.*
- Cristina Martinez  
Role: Research Supervisor  
Institution: University of Texas at El Paso (UTEP)  
Current Position: Health Promotion Graduate  
Project Title: *Evidence-based Screenings for Cardiorespiratory Disease in Low-income Communities in El Paso, TX.*
- Karen Del Rio  
Role: Research Supervisor  
Institution: University of Texas at El Paso (UTEP)  
Current Position: Doctoral Candidate  
Project Title: *Evidence-based Screenings for Cardiorespiratory Disease in Low-income Communities in El Paso, TX.*
- Christina Garcia  
Role: Research Supervisor  
Institution: University of Texas at El Paso (UTEP)  
Current Position: Master's in Education Graduate  
Project Title: *Evidence-based Screenings for Cardiorespiratory Disease in Low-income Communities in El Paso, TX.*

## Additional Teaching and Advising

- **Advisor for Student Governance Association**, UTHealth Houston School of Public Health, El Paso (2024-2025)
- Served as a ***Dolphin (mentor/evaluator) at the Dolphin Tank***, Center for Health Promotion and Prevention Research (CHPPR), UTHealth. (Aug, 2025).



- Served as **Community & Public Health panelist for incoming medical** students, Paul L. Foster School of Medicine, TTUHSC El Paso. (Jul, 2025).
- **Co-led training session: *Environmental Health for Promotoras/CHWs***, Familias Triunfadoras at UTEP, with Dr. Gabriel Ibarra. (Jun, 2025).
- Served as **mentor at the *ASN Mentoring Event***, ASN 2025 Annual Conference, Orlando, FL. (June, 2025).
- Served as **judge for the *Mensa Foundation Scholarship Program***, American Mensa. (Mar, 2025).
- Guest Panelist: *Nutrition and Public Health Careers* (Instructor: Dr. Debbie Fetter), Department of Nutrition, UC Davis. (Mar, 2025)
- Guest Panelist: *Public Health Professional Perspectives* (Instructor: Dr. Isabel Latz), Department of Public Health Sciences, New Mexico State University. (Feb, 2025)
- Guest Lecture: *Air Pollution and Health – Impacts on Populations with Limited Healthcare Access*, Environmental Epidemiology course (Instructor: Dr. Yun Hang), UTHealth Houston School of Public Health. (Feb, 2025)
- Served as mentor at the *Rice Health Policy Hackathon*, sponsored by the Department of Social Policy Analysis, Rice University, Houston, TX. (Jan–Feb, 2025)
- **Advisor for Student Governance Association**, UTHealth Houston School of Public Health, El Paso (2023-2024)
- Served as **Community and Public Health panelist** for incoming medical and dental students at Paul L. Foster School of Medicine and Woody L. Hunt School of Dental Medicine, Texas Tech University Health Sciences Center El Paso. (Jul, 2024)
- Served as **career mentor panelist** for Debbie Fette’s introductory nutrition class, Department of Nutrition, UC Davis. (Jun, 2024)
- Served as **career mentor panelist** for Leah Whigham’s public health capstone course, Department of Health Promotion and Behavioral Sciences, UTHealth Houston School of Public Health. (Apr, 2024)
- Served as a **project mentor** at the Smart-Borderland AI Hackathon, Department of Computer Science, University of Texas at El Paso, El Paso, TX. (Mar, 2024)
- Served as **career mentor panelist** for Isabel Latz’s public health class, Department of Public Health Sciences, New Mexico State University. (Jan, 2024)
- Served as **judge for Mensa Foundation Scholarship**, American Mensa. (Jan, 2024)

#### RECENT COMMUNITY SERVICE:

- Assisted with pilot data collection for *Evaluation of a Culinary Curriculum for Project HOMES Residents* (UTHealth Houston - UTAustin). Supported recruitment and health assessments with residents during the 5-week curriculum at Recovery Alliance, El Paso, TX. (Sep–Oct, 2025)
- Community Event: *Evento de Agradecimiento y Autocuidado para las Promotoras/Promotores de Salud de la Región* (CHW Reception). Provided health screenings for FV intake with Veggie Meter. El Paso, TX. (Apr, 2025).
- Meeting with Washington-Delta community members for *Environmental Health Needs Assessment*, Ascarate Park, El Paso, TX. (Jan, 2025).
- Meeting with San Juan community members for *Environmental Health Needs Assessment*, San Juan Community Center, El Paso, TX. (Feb, 2025).

- Community presentation. *Health Fair – Saber es Poder! Principles of Environmental Exposures and Cardiometabolic Health*, Albuquerque, NM. (2025, Jan)
- Community presentation. *Health Fair – Saber es Poder! Principles of Environmental Exposures and Cardiometabolic Health*, Socorro High School, El Paso, TX. (2024, Sep)
- Climate presentation. *Principles of Environmental Justice: The Intersection of Environmental Justice and Climate Change*, Climate Fellowship Program, City of El Paso's Office of Climate and Sustainability, El Paso, TX. (2024, Aug)
- Meeting with Washington-Delta and San Juan community leaders and Commissioner Stout to establish a *Health Needs Assessment* in El Paso, TX. (2024, Jul)
- Meeting with San Xavier community leaders and Commissioner Stout to establish a Health Needs Assessment in El Paso, TX. (2024, Jun)
- Consultation with Adults and Youth United Development Association, Inc. (A.Y.U.D.A) for Department of Energy (DOE) Grant, El Paso, TX. (2024, May)
- Meetings with Medical Center of Americas (MCA) in preparation for EPA Community Change Grant, El Paso, TX. (2024, Apr – Aug)
- Volunteer, National Public Health Week (NPHW), El Paso, TX. (2024, Apr)

#### ADDITIONAL TRAINING AND CERTIFICATIONS

- **Lifestyle Medicine & Food as Medicine Essentials Course Bundle**. American College of Lifestyle Medicine, Rush University, ABLM. Ago, 2025.
- **Emotional Well-Being & Physical Health Summer Short Course**, Harvard T.H. Chan School of Public Health and University College London, Jun 2025
- **Adapting Evidence-Based Interventions**, UTHealth Houston School of Public Health – Center for Health Promotion and Prevention Research, May 2025
- **Implementation Mapping: Using Intervention Mapping to Plan Implementation Strategies**, UTHealth Houston School of Public Health – Center for Health Promotion and Prevention Research & Institute for Implementation Science, Apr 2025
- **Health Promotion Planning: An Intervention Mapping Approach**, UTHealth Houston School of Public Health – Center for Health Promotion and Prevention Research & Institute for Implementation Science, Apr 2025
- **OneEarth OneHealth Research Coordination Network (RCN) Retreat**, American Geophysical Union (AGU), December 2024.
- **Building Successful Collaborations with Communities: Asset-Based Community Development**, National Library of Medicine, Sep 2024
- **New Investigator Development Program Grants 101/102**, UTHealth Houston, Jan-Jul 2024
- **Columbia Climate and Health Bootcamp: Building Skills and Knowledge for Effective Engagement**, Columbia University, Jun 2024
- **Level 3 –Financial Resilience Training**, Food Finance Institute and Universities of Wisconsin, Mar 2024
- **Level 1 –Food Business Model Optimization Training, and Level 2 –Food Business Financial Packaging**, Food Finance Institute and Universities of Wisconsin, Feb 2024
- **Communicating Wildland Fire Science**, COMPASS / Federation of American Scientists, Washington DC, Jan 2024
- **Climate Ambassador**, Climate for Health – American Public Health Association, Nov 2023

- Management Consulting Certificate, Stanford University, July 2021
- Science Communication & Media, Stanford University, May 2021
- COVID-19 Contact Tracing certificate, John Hopkins University, Apr 2020
- Teaching Online Practicum, Center for the Integration of Research, Teaching and Learning (CIRTL), Apr 2020
- Teaching Online Academy certificate, University of Texas at El Paso, El Paso, TX, Mar 2020
- How Health Clinicians Can Address Food Insecurity, Region V Public Health Training Center, University of Michigan, Feb 2020
- Population Health and Health Equity course, Region V Public Health Training Center, University of Michigan, Jan 2020
- Team-Based Learning Institute and Course (Re)Design Program, University of Texas at El Paso, Dec 2019
- Career Prep Apprentice Teacher Certificate, Graduate School, University of Texas at El Paso, Dec 2019
- Journal Peer Reviewing, Publons Academy, May 2019
- Practical Obesity Management Course, Paso Del Norte Institute for Healthy Living, El Paso, TX, Aug 2018
- Peer Mentoring & Small Groups Facilitation, Rocketeer Program, SELC, University of Texas at El Paso, TX, May 2017
- Community Health Mapping, GIS training, University of Texas at El Paso, TX, Apr 2017
- Mental Health Gap Action Programme (mhGAP), Pan-American Health Organization, Hilton Garden, El Paso, TX, Nov 2016
- Policy Writing, Workshop, Paso del Norte Health Foundation, El Paso, TX, Oct 2015
- Community Assessment for Public Health Response (CASPER), Ysleta del Sur Tigua Tribal Nation, Texas Department of State Health Services, El Paso, TX, Sep 2015
- Fracking: Guidebook for Public Health Officials, City of El Paso Department of Public Health, El Paso, TX, Aug 2015
- APTI SCI:460 Introduction to Air Permitting, Air Pollution Training Institute, Environmental Protection Agency, May 2015
- Health Promotion and Adult Education, School of Public Health, University of Minnesota, MN, Apr 2014
- Health Policy Advocacy, School of Public Health, University of Minnesota, MN, Mar 2014
- Program Evaluation, School of Public Health, University of Minnesota, MN, Feb 2014
- Pulse Wave Analysis and Pulse Wave Velocity, Cardiovascular assessment training, Department of Public Health, University of Texas at El Paso, El Paso, TX, Dec 2013
- Biomedical Responsible Conduct of Research Curriculum (Certificate), Collaborative Institutional Training Initiative (CITI), El Paso, TX, Aug 2013
- Medicine and Traffic Law, Certificate, MAPFRE Foundation, Madrid, Spain, Jun 2013