

## **Genny Carrillo**

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## **Education**

- 1993      **Doctor of Science** - *Tulane University School of Public Health and Tropical Medicine*, Department of Environmental Health, New Orleans, LA. *Dissertation Topic: "Use of a Decision Analysis Technique for Determining Criteria for Lead Reduction in a Multimedia Environment"*
- 1989      **Master of Sciences in Public Health** *Tulane University School of Public Health and Tropical Medicine*, Department of Environmental Health, New Orleans, LA. *Dissertation Topic: "Review on the Toxicity of Trinitrotoluene (TNT) and its Byproducts in Compost and Contaminated Soils"*
- 1989      **Master of Public Health** *Tulane University School of Public Health and Tropical Medicine*, Department of Environmental Health, New Orleans, LA.
- 1982      **Doctor of Medicine** University of Yucatán School of Medicine. Mérida, Yucatán, México.

## **Appointments**

- 2013-Present      **Associate Professor** (tenured), Texas A&M University School of Public Health, Department of Environmental and Occupational Health, College Station, TX.
- 2007-2013      **Assistant Professor** (tenure-track), Texas A&M University School of Public Health, Department of Environmental and Occupational Health, College Station, TX.
- 2005-2007      **Assistant Professor** (tenure-track), Medical College of Georgia School of Allied Health Sciences, Department of Health Informatics, Augusta, Georgia.
- 2004-2005      **Assistant Professor** (non-tenure-track), Texas A&M University School of Public Health, Department of Environmental and Occupational Health, College Station, TX.
- 2002-2004      **Senior Research Associate**, Texas A&M University School of Rural Public Health, Department of Environmental and Occupational Health, College Station, TX.
- 2001-2002      **Research Associate Scientist**, Texas A&M University, Department of Veterinary Physiology and Pharmacology, Center for Environmental and Rural Health, College Station, TX.
- 1999-2001      **Public Health Assessor**, Louisiana Department of Health & Hospitals, Environmental Epidemiology & Toxicology Section. New Orleans, LA.
- 1997-1998      **Consultant**, Honduras Ministry of Health.

- 1995-1997 **Visiting Research Professor**, University of Yucatán, Department of Genetics Regional Research Center, “Dr. Hideyo Noguchi.”
- 1994-1995 **Fellow**, Tulane University School of Public Health and Tropical Medicine, Department of Environmental Health Sciences, Environmental Health Training Program. New Orleans, LA.
- 1992-1993 **Official Liaison**, Tulane University School of Public Health and Tropical Medicine, the National Institute of Public Health, and the School of Public Health of Mexico.
- 1990-1991 **Academic Coordinator**, Master of Science in Environmental Health Program of the National Institute of Public Health and School of Public Health of Mexico.

### **FELLOWSHIPS & HONORARY SOCIETIES**

- 2013- 2014 **Fellow**. The Association of State and Territorial Health Officials, Environmental Public Health Tracking Peer-to-Peer program. A program that offers selected fellows the opportunity to conduct environmental health pilot projects under the mentorship of CDC and ASTHO mentors.
- 2009-2010 **Fellow**. CDC Environmental Public Health Leadership Institute.
- 2008-2009 **Fellow**. National Environmental Health Association
- 2005 **Fellow**, National Library of Medicine. Fellowship in Biomedical Informatics, Marine Biological Laboratory, Woods Hole, Massachusetts.
- 1995-2016 Member, Delta Omega Honorary Society in Public Health, ETA Chapter, Tulane University, New Orleans, LA.

### **HONORS & AWARDS**

- 2019 National System of Researchers- National Researcher Level II award. National Council of Science and Technology (CONACYT), Mexico.
- 2016 Children’s Environmental Health Excellence Award of the Office of Children’s Health Protection at the United States Environmental Protection Agency.
- 2011 US-Mexico Border 2012 Environmental Leadership Award from the United States Environmental Protection Agency Office and the Texas Commission on Environmental Quality.
- 1991 Doctoral Scholarship from the National Council of Science and Technology (CONACYT), Mexico.
- 1987 Master’s Scholarship from the National Council of Science and Technology (CONACYT), Mexico.
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### **ONGOING RESEARCH SUPPORT (Internal funding)**

1. *Evaluating indoor air quality and risk assessment for children and adolescents diagnosed with asthma living in a low-income community.* DHHS-NIEHS-IHSF  
**Role:** PI, Nov 2022-December 2023, \$10,605
2. *The impact of personalized wildfire smoke exposure on cardiovascular health.*  
TAMU Health Science Center  
**Role:** PI, January 2022- December 2023, \$99,500

### **ONGOING RESEARCH SUPPORT (External funding)**

3. *Improving Children’s Environmental Health in Hidalgo County Head Start Centers.*  
North American Development Bank  
**Role:** PI, June 2022- May 2023, \$86,000
4. *Safer Water Projects.* Methodist Healthcare Ministries of South Texas Inc.  
**Role:** Co-I, May 2022- February 2024, \$1,500,000

### **PENDING RESEARCH SUPPORT**

Remote sensing-based quantification of the “triad” threat of air pollution, heat stress, and urban flooding in Houston: Vulnerability, impact, and opportunity for advancing environmental justice  
National Aeronautics and Space Administration

**Role:** Co-I  
2023-2026  
\$1,708,291

Multi-Scale Human Impacts and Solutions for Dynamic Concentrations of Arsenic and Fluoride in Over-Exploited Aquifer Systems  
National Science Foundation- DISES

**Role:** Co-I  
2023-2027  
\$1,599,628

### **COMPLETED RESEARCH (External Funding)**

5. *Community Pediatric Diabetes and Obesity Education and Intervention Pilot Project,*  
Knapp Community Care Foundation\_  
**Role:** PI, 2019-2021, 370,666
6. *The Role of Maternal Diabetes & Obesity in Reproductive Health Outcomes,*  
Knapp Community Care Foundation  
**Role:** Co-PI, 2018-2021, \$349,640
7. *Pediatric Diabetes Capacity Building for Community Health Workers in Hidalgo County.*  
Tijerina Foundation  
**Role:** PI, 2019-2020, \$20,000

8. *Healthy South Texas, Asthma Program (Year 4), State of Texas*,  
**Role: PI**, 2019-2020, \$300,000
9. *Diabetes Screening for Adult Women*, Discover Foundation  
**Role: PI**, 2019-2021, \$30,000
10. *Healthy South Texas, Asthma Program (Year 3), State of Texas*,  
**Role: PI**, 2018-2019, \$200,000
11. *Health Outcomes of Water Insecurity in Urban Mexico: A Pilot Project*, Conacyt-TAMU  
**Role: PI**, 2018-2019, \$24,000
12. *Working on capacity building to improve Children's Environmental Health*, Environmental Protection Agency  
**Role: PI**, 2018-2019, \$49,000
13. *Healthy South Texas, Asthma Program (Year 2), State of Texas*,  
**Role: PI**, 2016-2017, \$200,000
14. *Community-Based Pediatric Asthma Education and Intervention Program Administration for Community Living*, Knapp Community Care Foundation  
**Role: PI**, 2015-2017, \$374,042
15. *Healthy South Texas, Asthma Program (Year 1), State of Texas*  
**Role: PI**, April-August 2016, \$100,000
16. *Planning Model for a Texas/Mexico Border Information Exchange Program*, Border Environmental Cooperation Commission, and the Environmental Protection Agency  
**Role: PI**, 2014-2015, \$29,875
17. *Integrated Educational Interventions for Asthma Management in South Texas- Year 4*, Texas Department of Health and Human Services, Texas Asthma Control Program  
**Role: PI**, 2013-2014, \$31,182
18. *Integrated Environmental Indoor Management using Healthy Homes and Asthma Education*, Environmental Protection Agency  
**Role: PI**, 2012-2013, \$50,000
19. *Asthma Education to Improve the Quality of Life of Children with Asthma*, Texas Department of Health and Human Services, Texas Asthma Control Program  
**Role: PI**, 2013-2014, \$31,182
20. *Multidisciplinary Approach to Educate and Train Engineering and Science Students on Air Pollution Issues of the US-Mexico Border*, Environmental Protection Agency  
**Role: Co-I**, 2008-2013, \$625,000
21. *Integrated Educational Interventions for Asthma Management in South Texas (Year*

- 3) Texas Department of Health and Human Service, Texas Asthma Control Program  
**Role: PI**, 2012-2013, \$35,000
22. *Development of an Environmental/Epidemiological Database in the Texas-Mexico Border*, Border Environment Cooperation Commission (BECC), and the Environmental Protection Agency  
**Role: PI**, 2012-2013, \$50,000
23. *Environmental Asthma Education in Hidalgo County*, Texas Department of Health and Human Services, Texas Asthma Control Program  
**Role: PI**, 2011-2012, \$3,605
24. *Integrated Educational Interventions for Asthma Management in South Texas* (Year 2) Texas Department of Health and Human Services, Texas Asthma Control Program  
**Role: PI**, 2010-2011, \$50,000
25. *Environmental Education in Asthma and Pesticides in the US-Mexico Border*, Environmental Protection Agency and the Border Environment Cooperation Commission (EPA/BECC)  
**Role: PI** 2009-2011, \$50,000
26. *Integrated Educational Interventions for Asthma Management in South Texas* (Year 1), Texas Department of Health and Human Services, Texas Asthma Control Program  
**Role: PI**, Feb 2010- August 2011, \$75,000

#### **COMPLETED RESEARCH (Internal Funding)**

27. *Association between children's asthma and indoor air pollution in homes in low-income communities in South Texas: A pilot study*, NIEHS P30 ES029067. Texas A&M Center for Environmental Research Integrative Health Sciences Facility Core (IHSF). Subcontract:  
**Role: PI**, 2019-2020, \$10,000
28. *Hospital asthma discharges and their relationship with hazardous air pollutants* Global Institute for Hispanic Health, Driscoll Children's Hospital and Texas A&M University  
**Role: PI**, 2018-2020, \$25,000
29. *Pilot project to characterize pollutant exposure by monitoring amounts and types of traffic in the area*. Texas A&M Health Science Center, Texas A&M Transportation Institute, and Johns Hopkins University  
**Role: Co-I**, 2014-2015, \$120,000
30. *Home safety assessment in the Lower Rio Grande Valley: A pilot study*, Texas A&M Health Sciences Center  
**Role: PI**, Feb 2010- August 2010, \$2,613

#### **COMPLETED FUNDING Public Health Infrastructure**

31. *Develop an undergraduate Public Health course*, ATPM/CDC Cooperative

Agreement Innovations in Public Health Education Program

**Role:** PI, 2006- 2007, \$6,000

## **PEER-REVIEWED JOURNAL PUBLICATIONS**

\*Student. \*\*Doctoral student ^Carrillo G First/Senior Author/Corresponding Author

### **Research**

*My research began when I moved to McAllen in 2007 and focused on the US-Mexico Border. I began working with EPA due to the high number of hospitalizations in the area, received seed funding through TDSHS, and gathered many non-academic collaborators. My work has been instrumental in improving children's asthma in the region (92.6% Hispanic population and 28.8% in poverty), where most of the population (33.1%) lacks medical insurance. Thus, it was challenging to access hospitalizations as most patients went to the ER for asthma attacks. As part of my scholarly work, I have expanded into other research topics critical to the region, including diabetes and water quality. I have worked diligently to strengthen my international research collaboration network.*

### **Submitted**

60. Patterns of alcohol consumption in Mexico and mortality from alcohol consumption associated diseases between 2016 & 2020: an epidemiological clustered study. Adrian Perez-Navarrete, Jose Luis Millet-Herrera, Maria Roche-Sarre, Maria Krause-Icaza, Nina Mendez-Dominguez \*, **Carrillo G**, Francisco Ávila-Ferrera. Submitted on December 30, 2022, to the *International Journal of Environmental Research and Public Health*
59. The contribution of secondhand tobacco smoke to blood lead levels in US children and adolescents: a cross-sectional analysis of NHANES 2015–2018. Alexander Obeng, Roh T, Anisha Aggarwal, Kido Uyasmasi, **Carrillo G**. Submitted to *BMC Public Health* on December 29, 2022

### **Published**

58. Knappett, P. S. K., Farias, P., Miller, G. R., Hoogesteger, J., Li, Y., Mendoza-Sanchez, I, Woodward, RT., Hernandez, H., Loza-Aguirre, I., Datta, S., Huang, Y., Carrillo, G., Roh, T., Terrell, D. (2022). A systems approach to remediating human exposure to arsenic and fluoride from overexploited aquifers. *GeoHealth*, 6, e2022GH000592. <https://doi.org/10.1029/2022GH000592>
57. Naufal G, Naiser E, Patterson B, Baek J, **Carrillo G**. A Cost-Effectiveness Analysis of a Community Health Worker Led Asthma Education Program in South Texas. *J Asthma Allergy*. 2022;15:547-556. <https://doi.org/10.2147/JAA.S351141>
56. Roh T, Moreno-Rangel A, Baek J, Obeng A,\*\* Hasan NT, **Carrillo G**. Indoor Air Quality and Health Outcomes in Employees Working from Home during the COVID-19 Pandemic: A Pilot Study. *Atmosphere* 2021, 12(12), 1665. <https://doi.org/10.3390/atmos12121665>
55. **Carrillo G.**, Roh T, Baek T, Chong-Menard B., Ory M. Evaluation of Healthy South Texas Asthma Program on improving health outcomes and reducing health disparities among the

- underserved Hispanic population: using the RE-AIM model. *BMC Pediatr.* 2021 Nov 16;21(1):510. doi: 10.1186/s12887-021-02991-8. PMID: 34784927; PMCID: PMC8593094.
54. Mendez- Dominguez N., Santos-Zaldivar K.,\* Gomez Carro S.,\* Datta-Banik S., **Carrillo G.** Maternal Mortality during the COVID-19 pandemic in Mexico: a preliminary analysis at six months. *BMC Public Health.* 2021, 1297 (2021). <https://doi.org/10.1186/s12889-021-11325-3>
  53. Mendoza-Sanchez, I., Uwak, I., Myatt, L., Van Cleve, A., Pulczynski, J. C., Rychlik, K. A., Sweet, S., Ramani, T., Zietsman, J., Zamora, M. L., Koehler, K., **Carrillo, G.**, & Johnson, N. M. (2021/06/15). Maternal exposure to polycyclic aromatic hydrocarbons in South Texas evaluated silicone wristbands as personal passive samplers. *Journal of Exposure Science & Environmental Epidemiology.* <https://doi.org/10.1038/s41370-021-00348-y>
  52. Stoler J., Miller, J.D., Brewis, A., Freeman, M., Harris, L.M., Jepson, W., Pearson, A.L., Rosinger, A.Y., Shah, S.H., Staddon, Ch., Workman, C., Wutich, A., Young, S.L., **Carrillo G.**, et al. and the Household Water Insecurity Experiences Research Coordination Network (HWISE RCN) “Household Water Insecurity Will Complicate the Ongoing COVID-19 Response: Evidence from 29 Sites in 23 Low- and Middle-Income Countries” *International Journal of Hygiene and Environmental Health* - Volume 234, May 2021, 113715
  51. Jepson W., Stoler J., Baek J., \*\* Moran J., Uribe F., **Carrillo G.**, A Cross-sectional study in urban Mexico to measure household water insecurity and its health outcomes. *BMC Open.* 2021;11(3):e040825.
  50. Venkataramanan V., Geere J.L., Thomae B., **Carrillo G.**, et al., Household Water Insecurity Experiences Research Coordination Network (HWISE RCN), et al. In pursuit of ‘safe’ water: the burden of personal injury from water fetching in 21 low-income and middle-income countries. *BMJ Global Health*, 2020;5:e003328.
  49. Baek J., \*\* Kash B., Xu X., Benden M., Roberts J., **Carrillo G.**^ Pediatric asthma hospitalization: individual and environmental characteristics of high utilizers in South Texas. *J Asthma.* 2020 Oct 8:1-11. doi: 10.1080/02770903.2020.1827424. Epub ahead of print. PMID: 32962451.
  48. **Carrillo, G.** Mendez-Domínguez, Nina., Datta-Banik, Rudradeep., \* Figueroa-López, Fernando., \* Estrella-Chan, Brandon.,\* Alvarez-Baeza, Alberto., and Garza Norma. Asthma Mortality and Hospitalizations in Mexico from 2010 to 2018: Retrospective Epidemiologic Profile. *Int. J. Environ. Res. Public Health* 2020, 17(14), 5071; <https://doi.org/10.3390/ijerph17145071>
  47. Moreno Rangel A., Baek J.,\*\* Roh T, Xu X, **Carrillo G.** Assessing Impact of Household Intervention on Indoor Air Quality and Health of Children with Asthma in the US- Mexico Border: a Pilot Study. *Journal of Environmental and Public Health*, 2020, 6042146; doi: 10.1155/2020/6042146
  46. Baek J., \*\* Kash B., Xu X., Benden M., Roberts J., **Carrillo G.** Effect of Ambient Air Pollution on Hospital Readmissions among the Pediatric Asthma Patient Population in South Texas: A Case-Crossover Study. *Int J Environ Res Public Health.* 2020, 17(13). doi:10.3390/ijerph17134846
  45. Mendez-Dominguez N., Álvarez-Baeza A., \* **Carrillo G.** Demographic and health indicators in correlation to interstate variability of incidence, confirmation, hospitalization, and lethality in

- Mexico: Preliminary analysis from imported and community-acquired cases during COVID-19 outbreak. *Int. J. Environ. Res. Public Health*, 2020, 17(12), 4281.
44. Baek, J., \*\* Kash, B.A., Xu, X., Benden, M., Roberts, J., & **Carrillo, G.** Association between Ambient Air Pollution and Hospital Length of Stay among Children with Asthma in South Texas. *Int J Environ Res Public Health*. 2020;17(11).  
<https://doi.org/10.3390/ijerph171113812>doi:10.3390/ijerph171113812
  43. John, J., \* Baek J., \*\* Roh T., Cabrera-Conner L., & **Carrillo, G.** Regional Disparity in Asthma Prevalence and Distribution of Asthma Education Programs in Texas. *Journal of Environmental and Public Health*, 2020:9498124. doi:10.1155/2020/9498124.
  42. Brewis A, Workman C, Wutich A, Jepson W, Young S, **Carrillo G.**, et al., Household water insecurity is strongly associated with food insecurity: Evidence from 27 sites in low- and middle-income countries. *American Journal of Human Biology*. 2020;32(1):e23309.
  41. Baek, J., \*\* Huang Ke.,\* Conner L., Tapengan N.,\* Xu X., **Carrillo G.** Effects of the Home-based Educational Intervention on Health Outcomes among Hispanic Children with Asthma: A Quasi-Experimental Study. *BMC Public Health*, **2019**;10(1):912.
  40. Sera L Young, Shalean M Collins, Godfred O Boateng, Torsten B Neilands, Zeina Jamaluddine, Joshua D Miller, Alexandra A Brewis, Edward A Frongillo, Wendy E Jepson, Hugo Melgar-Quiñonez, Roseanne C Schuster, Justin B Stoler, Amber Wutich, **Carrillo G** on behalf of the HWISE Research Coordination Network. Development and validation protocol for an instrument to measure household water insecurity across cultures and ecologies: The Household Water InSecurity Experiences (HWISE) Scale. *BMJ Open* **2019**;9:e023558. doi:10.1136/ BMJ open- 2018-023558
  39. Acosta Enríquez, M.E., Uribe Salas, F.J., Baek, J., \*\* **Carrillo G.** Association between lifestyle behaviors and health outcomes in Adventist and non-Adventist adolescents in Mexico: a pilot study. *BMC Public Health*. **2019**;19(1):1705. doi:10.1186/s12889- 019-8042-0.
  38. Zhang X., \* Xu X., Zhong Y., Power M., Taylor B., **Carrillo G.** Serum folate levels and urinary arsenic methylation profiles in the US population: NHANES, 2003-2012. *J Expo Sci Environ Epidemiol*. **2019**;29(3):323-334. doi: 10.1038/s41370-018-0021-5
  37. Hill AV., Menon R., Perez-Patron M., **Carrillo G.**, Xu X., Taylor BD. High-mobility group box 1 at the time of parturition in women with gestational diabetes mellitus. *Am J Reprod Immunol*. **2019**;82(5): e13175. [www.ncbi.nlm.nih.gov/pubmed/31353785](http://www.ncbi.nlm.nih.gov/pubmed/31353785)
  36. Young SL, Boateng GO, Jamaluddine Z, **Carrillo G.**, et al. The Household Water InSecurity Experiences (HWISE) Scale: development and validation of a household water insecurity measure for low-income and middle-income countries. *BMJ Global Health*. **2019**;4(5):e001750.
  35. Xu X, Zhang X, **Carrillo G**, Zhong Y, Kan H, Zhang B. A systematic assessment of carcinogenicity of chemicals in hydraulic-fracturing fluids and flowback water. *Environ Pollut*. **2019**; 251:128-136. doi.org/10.1016/j.envpol.2019.04.016
  34. Young SL, Collins SM, Boateng GO, **Carrillo G.**, et al. Development and validation protocol for an instrument to measure household water insecurity across cultures and ecologies: the



- Household Water Insecurity Experiences (HWISE) Scale. *BMJ Open*. 2019;9(1):e023558.
33. Zhang X., \* Johnson NM., **Carrillo G.**, Xu X. Decreasing trend in passive tobacco smoke exposure and association with asthma in US children. *Environmental Research*, 2018, 166: 35–41. doi.org/10.1016/j.envres.2018.05.022
  32. Zamora, ML., Pulczynski., \* Johnson N., Garcia-Hernandez R., Rule A., **Carrillo G.**, Zietsman J, Sandragorsian B., \* Vallamsundar, Askariyeh M., Koehler K. Maternal Exposure to PM 2.5 in South Texas, a pilot study. *Science of Total Environment*, 2018 July 1;628-629:1497-1507. <https://doi.org.ezproxy.library.tamu.edu/10.1016/j.scitotenv.2018.02.138>
  31. **Carrillo G.**, Perez-Patron., MJ, Johnson N., Zhang X.,\* Lucio R., Xu X. Asthma Prevalence and School-Related Hazardous Air Pollutants in the US-Mexico Border Area. *Environmental research*. 2018;162, 41–48 doi.org/10.1016/j.envres.2017.11.057
  30. **Carrillo G.**, Perez-Patron., MJ., Lucio R., Cabrera L., Trevino A., Xu X., Mier N. The Benefits and Challenges of *Managing Asthma in Hispanic Families in South Texas: A Mixed-Methods Study*. *Frontiers in Public Health*, 2017;5:150.
  29. **Carrillo G.**, Uribe F., Lucio R., Ramirez Lopez A., Korc M. The United States–Mexico border environmental public health: the challenges of working with two systems. *Rev Panam Salud Publica*, 2017; 41: e98.
  28. Mier N., Smith M., Wang X., Towne S., **Carrillo G.**, Garza N., \* Ory M. Factors associated with diet and exercise among overweight and obese older Hispanics with diabetes. *SAGE Open* April-June 2017: 1–11 DOI: 10.1177/2158244017710
  27. Xu X., Hui Hu., Gregory D. Kearney., Haidong Kan., **Carrillo G.**, Xinguang Chen. A population-based study of smoking, serum cotinine, and exhaled nitric oxide among asthmatics and a healthy population in the USA. *Inhal Toxicol*. 2016;28(14):724-730. doi: 10.1080/08958378.2016.1264502.
  26. **Carrillo G.**, Spence-Almaguer E., Lucio R., Chong- Menard B., Smith K. A Home-Based and holistic approach to address asthma management in South Texas. *Pediatric, Allergy, Immunology, and Pulmonology*. 2015;28(3):165-171. DOI: 10.1089/ped.2015.0523
  25. **Carrillo, G.**, Han, D., Lucio, R. L., Seol, Y.H., Chong-Menard, B., Smith, K. Impacting Environmental and Public Health through the Use of Dual Targeted and Tailored Asthma Educational Interventions. *J Environ Public Health*. 2015:476173. doi: 10.1155/2015/476173
  24. Manzanares Rivera J.L., **Carrillo Zuniga G.** A Regional Approach to Healthcare Reform: The Texas Border. *The Health Care Manager Journal*. 2015; 34(1): 44–53.
  23. Setien MA, \* Han D, **Zuniga GC**, Mier N, Lucio RL, Treviño L. Does injury prevention education initiate household changes in a Spanish-speaking minority population?. *J Community Health*. 2014 Feb;39(1):167-72. doi: 10.1007/s10900-013-9755-0. PubMed PMID: 23974955.
  22. **Zuniga Carrillo G.**, Seol Y.H., Dadig B., Guion W. K., Rice V. Progression in Understanding and Implementing the Cultural and Linguistic Appropriate Services Standards: Five-Year Follow-up at an Academic Center. *Health Care Manager*. 2013;32(2):167-172. doi: 10.1097/HCM.0b013e31828ef655.

21. Mier N, Smith M, Irizarry D., \* **Carrillo Zuniga G.**, Chanam L., Trevino L., Ory M. Bridging research and policy to address childhood obesity among border Hispanics: A Pilot Study. *Am J Prev Med*; 2013;44(3 SUPPL.3): S208-S214.
20. **Carrillo Zuniga G.**, Kirk S., Mier N., Lucio R., Garza, N\*. I., Zuniga, M. A. The impact of asthma health education for parents of children attending Head Start Centers. *J Community Health*. 2012;37(5):1026-1031. doi: 10.1007/s10900-012-9571-y.
19. Garza N., \* **Carrillo Zuniga, G.**, Jiang L., Mier, N., Hellsten, J., Rene, A. Assessment of a Child Injury Prevention Intervention in the Texas-Mexico Border. *Texas Public Health Journal*. 2012; 64:19-22.
18. Lucio LR., **Carrillo Zuniga G.**, Seol Y.H., Garza N., \* Mier N., Trevino L. Incorporating what Promotoras Learn: Becoming Role Models to Effect Positive Change. *J Community Health*. 2012;37(5):1026-1031. doi: 10.1007/s10900-011-9526-8.
17. **Carrillo Zuniga, G.**, Lucio, R. L., Seol, Y. H., Garza, N.I., \* Zuniga, M. A., Hernandez, T., Harrison, W\*. Outcomes of Community Health Worker Intervention with Asthma Education and Healthy Homes Curriculum in South Texas Colonias. *Journal of Asthma & Allergy Educators*. 2012;3(1):27-33 doi: 10.1177/2150129711426571
16. Mier N., Smith M.L., **Carrillo Zuniga G.**, Wang X., Garza N., \* Ory MG. Personal and cultural influences on diabetes self-care behaviors among older Hispanics born in the US and Mexico. *Journal of Immigrant and Minority Health*. 2012;14(6):1052-1062. DOI10.1007/s10903-012-9639-x
15. Buchanan R.J., Johnson O., Zuniga M.A., **Carrillo Zuniga G.**, Chakravorty BJ Health-Related Quality of Life Among Latinos with Multiple Sclerosis. *Journal of Social Work in Disability & Rehabilitation*, 2012;11(4):240-257.
14. **Carrillo Zuniga G.**, Kirk S., Hernandez D., Nadeau N., Chong-Menard B., Lucio R., Zuniga MA. Multi-Institutional collaboration to develop asthma education for school settings in South Texas. *Public Health Report*. 2011;126(1):139-144. (PMID: 21337940).
13. **Carrillo Zuniga G.**, Mier N., Seol YH., Villarreal E., \* Garza N.,\* Zuniga MA. Home Hazards Assessment among Elderly in South Texas Colonias. *Texas Public Health Journal*. 2011; 63:24-27.
12. Buchanan R.J., Zuniga M.A., **Carrillo-Zuniga G.**, Chakravorty B.J., Tyry T., Moreau R.L., Vollmer T. A Pilot Study of Latinos with Multiple Sclerosis: Demographics, Disease, Mental Health, and Psychosocial Characteristics. *Journal of Social Work in Disability and Rehabilitation*. 2011;10(4):211-231. (PMID: 22126140)
11. **Carrillo Zuniga G.**, Seol YH., Kirk S., Hernandez D., Nadeau N., Zuniga M. Impact of Asthma 101 Training on Level of Nursing Students' Knowledge. *Journal of Asthma & Allergy Educators*. 2010;1(4):138-144. <http://jaa.sagepub.com.lib-ezproxy.tamu.edu:2048/content/1/4/138.full.pdf+html>

10. **Carrillo Zuniga G.**, Mier N., Seol Y.H., Zuniga, M. Use of household safety devices among South Texas Colonia Residents. Texas. *Texas Public Health Journal*. 2010;62(1):24-27.
9. Buchanan R.J., Zuniga M.A., **Carrillo-Zuniga G.**, Chakravorty B.J., Huang C., Tyry T., Moreau R.L., Vollmer T. Comparison of Latinos, African Americans, and Caucasians with Multiple Sclerosis. *Ethnicity and Disease*. 2010; 20(4):451-457. (PMID: 21305836)
8. **Carrillo Zuniga G.**, Kirk S., Hernandez T. A Focus on Asthma and Individual Health Plans: A Survey of Texas Schools. *Journal of Asthma & Allergy Educators*. 2010;1(1):22-27. <http://jaa.sagepub.com.lib-ezproxy.tamu.edu:2048/content/1/1/23.full.pdf+html>
7. Zuniga M., **Carrillo-Zuniga G.**, Seol YH, Fos P. Multi-Criteria Assessment of County Public Health Capability Disparities. *J Health Hum Serv Adm*. 2009;32(3):238-258. (PMID: 20099579).
6. **Carrillo Zuniga G.**, Donnelly K.C., Cortes D.E., Olivares E., Gonzalez H., Cizmas L.H. Border Health 2012: Binational Collaboration to Develop an Outreach Environmental Educational Program. *Public Health Reports*. 2009, May/June;124(3):466-470. (PMID: 19445425).
5. **Carrillo-Zuniga G.**, Dadig B., Guion W., Rice V. Awareness of the National Standards for Culturally and Linguistically Appropriate Services (CLAS) at an Academic Health Center. *The Health Care Manager*. 2008;27(1):45-53. (PMID: 18510144).
4. Sumaya C., **Carrillo-Zuniga G.**, Kelley M., \* May M., Zhu L., Donnelly K.C. Linking Research to Health Promotion in the Texas Colonias. *American Journal of Health Studies*. 2006; 21(4), 245-252. [http://web.ebscohost.com.lib-e"proxy.tamu.edu:2048/ehost/pdfviewer/pdfviewer?vid=4&hid=127&sid=af049f29-474c4"16-9a67-058bc3e32dcd%40sessionmgr110](http://web.ebscohost.com.lib-e)
3. **Carrillo-Zuniga G.**, Coutinho C., \* Shalat S.L., et al. Potential Sources of Childhood Exposure to Pesticides in an Agricultural Community. *Journal of Children's Health*. 2004;2(1):29-39.
2. Zuniga M.A., **Carrillo-Jiménez G.**, Fos, P., Gandek B., Medina-Moreno M.R. Health Status Evaluation with the SF-36 Survey: Preliminary Results of its Use in Mexico. *Salud Publica de México*. 1999; March-April(2):110-115. (PMID: 10343514)
1. Santos Burgoa C., Alatorre Eden Mynter R., \* **Carrillo Jiménez G.**, Rivera Ramírez L., Rojas Bracho L., Escamilla Cejudo J.A., Lara Flores E. Evaluation of the Development and Implementation of the Environmental Health Degree Program. *Salud Publica de México*. 1993; April(2):202-213.

## **BOOK CHAPTERS**

4. Moreno A, **Carrillo G.** Energy-efficient homes: A heaven for respiratory illness. eEditorial Discovery eds. *Advancements in Sustainable Architecture and Energy Efficiency*. June 2021 ISBN13:9781799870234

3. **Carrillo, G.**, Mehta., R.K., Johnson, N. Neurocognitive effects of Pesticides in children. In Riccio CA, Sullivan JR, eds. *Pediatric Neurotoxicology: Academic and Psychosocial Outcomes*. Cham: Springer International Publishing; 2016:127-141.
2. Johnson, N.M., **Carrillo, G.**, Mehta, R.K. Academic and Psychosocial Impact of Air Pollution on Children. In: Riccio CA, Sullivan JR, eds. *Pediatric Neurotoxicology: Academic and Psychosocial Outcomes*. Cham: Springer International Publishing; 2016:167- 180.
1. Millard, A.V., Graham, M.A., Mier, N., Flores, I., **Carrillo-Zuniga, G.**, Sánchez, E.R. Addressing Health Disparities: The Hispanic Perspective. In S. Kosoko-Lasaki, R.L. O'Brien & C.T. Cook [Eds.]. *Promoting Cultural Proficiency in Eliminating Health Disparities*. (2009) Boston: Jones & Bartlett Publishers. ISBN-13: 9780763751746.

### **REVIEWER SERVICE FOR RESEARCH JOURNALS**

- *Journal of Asthma and Allergy Educators*
- *Journal of Asthma*
- *Texas Public Health Journal*
- *Pediatric Allergy, Immunology, and Pulmonology*
- *Pan American Health Organization Journal*
- *The Journal of Rural Health*
- *Chest*
- *Frontiers*
- *BMC Pediatrics*
- *BMC Public Health*
- *American Journal of Public Health*
- *Health Education Research*
- *Journal of Public Health Management and Practice*
- *American Journal of Health Behavior*
- *American Journal of Public Health*
- *Health Education and Behavior*
- *Journal of Asthma and Allergy*
- *Perspectives in Public Health*
- *International Journal of Public and Environmental Research*
- *PlosOne*
- *American Journal of Human Biology*
- *International Journal of Chronic Obstructive Pulmonary Disease*
- *Environmental Research*
- *Environment International*

### **Invited Lectures and Featured Speeches State/National/International**

**Carrillo, G.** “Conferencias sobre Prevencion, Tratamiento, Manejo, Control de niños con Asma.”  
Virtual Panel Coordinated by the United States-Mexico Border Commission and University of

Montemorelos. November 28, 2022

**Carrillo, G.** “Evaluacion del programa de asma para mejorar y reducir las disparidades de salud entre la poblacion Hispana en el Sur de Texas.” [Featured speaker]. Escuela de Medicina Campus Laguna Gomez Palacio, Durango Mexico. Primer Congreso Internacional de Investigacion en Medicina de la Universidad Autonoma de Durango Campus Laguna. 7th Encuentro de Investigacion Virtual. 29 de Octubre 2021

**Carrillo, G.** “Updates in Lead and Community Needs.” Virtual Panel coordinated by the Texas Childhood Lead Poisoning Prevention Program, Blood Lead Surveillance Branch, Department of Texas State Health Services. October 27, 2021

**Carrillo G.** International Symposium of Water. Impact of Water of Insecurity and Gastrointestinal diseases, October 18, 2018 held in Torreon, Coahuila. School of Medicine, Universidad Autónoma de Torreon, MX.

**Carrillo G.** Children’s Environmental Health, Environmental Protection Agency. Asthma in South Texas. Washington, DC, on October 13, 2016.

### **Regional**

16. **Carrillo G.** Improving Children’s Environmental Health in Hidalgo County Head Start Centers. Gulf Task Force, Environmental Education Committee in Weslaco, Texas. US EPA Border Health 2025. October 26, 2022.
15. **Carrillo G.** Integrated Education in Children with Asthma in Corpus Christi, Texas. Driscoll Children Hospital. February 15, 2020. Corpus Christi, TX.
14. **Carrillo G.** Health Outcomes in Hispanic Children with Asthma in South Texas: Current projects. Methodist Hospital, September 10, 2019. Houston, TX.
13. **Carrillo G.** Healthy South Texas. Asthma, Allergy, and Pulmonary Diseases Conference. Healthy Homes, Healthy Children: How Environmental Conditions Impact Asthmatic Children. March 18, 2018, Texas A&M Coastal Bend Health Education Center, Corpus Christi, Texas.
12. **Carrillo Zuniga, G.** An educational asthma event. *Helping kids take action against asthma* for RRT’s, RN’s, PA’s, School Nurses, and RN, RT, and PA students was offered on June 15, 2013. McAllen, Texas.
11. **Carrillo G.** Children’s Environmental Health U.S.-MX Border Symposium. Protecting Children Where They Live, Learn, and Play in Border Communities and Beyond. Brownsville, TX, on August 25, 2016.
10. **Carrillo Zuniga, G.** South Texas College, Respiratory Therapy Program, Asthma Education and Schools. August 30, 2013, McAllen, Texas.
9. **Carrillo Zuniga.** U.S.-Mexico Border 2020 Gulf Task Force Meeting. Presentation: The development of a repository for environmental health in the US-Mexico Border. December 08, 2013, Weslaco, Texas.
8. **Carrillo Zuniga.** Healthy School Environments for South Texas event was offered to the

- maintenance workers of regional Independent School Districts. Presentation: Indoor Air pollution and health effects. *March 23, 2013*, McAllen, Texas
7. **Carrillo Zuniga, G.** University of Texas-Pan American, Nursing Program Health and Prevention. Nursing Asthma 101, March 10, 2014, Edinburg, Texas.
  6. **Carrillo Zuniga, G.** University of Texas-Pan American, Nursing Program Health and Prevention. Nursing Asthma 101, March 10, 2014, Edinburg, Texas.
  5. **Carrillo Zuniga, G.** U.S.-Mexico Border 2020 Gulf Task Force Meeting. The development of a repository for environmental health in the US-Mexico Border. December 8, 2013, Weslaco, Texas.
  4. **Carrillo Zuniga, G.** Asthma Coalition of Texas. Outcomes of Asthma Education offered by Community Health Workers in South Texas Colonias, September 9, 2011, Houston, TX.
  3. **Carrillo Zuniga, G.** Third Annual Family Engagement Conference, McAllen High School, September 21, 2011, McAllen TX.
  2. **Carrillo Zuniga, G.** Rio Grande Regional Hospital. Collaborative Efforts with the asthma program and hospitals in the area, November 2, 2011. McAllen, TX.
  1. **Carrillo Zuniga, G. Carrillo Zuniga, G.** Asthma Coalition of Texas. Integrated Study of Asthma Education offered by Community Health Workers in South Texas Colonias, October 10, 2010, Austin, TX.

### **PEER-REVIEWED CONFERENCE PRESENTATIONS**

*\* Indicates the first author is a graduate student.*

68. Roh T, Baek J, Moreno-Rangel A, **Carrillo G.** The impact of working from home during COVID-19 pandemic on employee's health: Implication of indoor air quality. APHA 2021 Virtual Annual Meeting and Expo (Oct.23-27).
67. Moreno- Rangel A, Roh T, Wang T, Baek, J, **Carrillo G.** Improving health outcomes of asthmatic children through indoor air quality management and asthma education — Case study. HB2021- Europe, 21-23 June 2021.
66. Baek J, \* Roh T, **Carrillo G.** Impact of an asthma education program on health outcomes among children with asthma in south Texas: Using the RE-AIM model. APHA 2021 Virtual Annual Meeting and Expo (Oct.23-27).
65. Baek J, \* Roh T, **Carrillo G.** Implementing an Asthma Education Program to Improve Health Outcomes and Reduce Health Disparities Among Children with Asthma in South Texas. Virtual Academy Health 2021, June 14-17.
64. Santos Zaldivar KP, \* Mendez-Domingue N, Gomez Carro S, Datta Banik S & **Carrillo G.** Impact of the COVID-19 pandemic on Maternal Mortality in Mexico. 46<sup>th</sup> Virtual Annual Meeting of the Human Biology Association 2021 (March 29-April 2).

63. Mendez Dominguez N, Santos-Zaldivar D,\* Rochel-Perez K, Azuela-Morales M, Cuevas-Koh O, Alvarez-Baeza A, **Carrillo G**. Obesity and Comorbidities among hospitalized patients who died of COVID-19 in Mexico. 46th Virtual Annual Meeting of the Human Biology Association 2021 (March 29-April 2).
62. Roque M, \* Cabrera-Conner L, Shakir H, **Carrillo G**, Perez-Patron M. Gestational diabetes curriculum for community health workers on the Texas-Mexico border: A culturally competent, community-based approach. APHA's 2020 Virtual Annual Meeting and Expo (Oct. 24 - 28).
61. Moreno-Rangel A, Baek J, Roh T, Cabrera-Conner L, **Carrillo G**. Household intervention to improve indoor air quality and health of children with asthma in the US-Mexico border: A pilot study. APHA's 2020 Virtual Annual Meeting and Expo (Oct. 24 - 28).
60. Baek J.\* Kash B, Xu X, Benden M, Roberts J, **Carrillo G**. Association between ambient air pollution and hospital length of stay among children with asthma in south Texas. APHA's 2020 Virtual Annual Meeting and Expo (Oct. 24 - 28).
59. Baek J, \* Kash B, Xu X, Benden M, Roberts J, **Carrillo G**. Effect of ambient air pollution on hospital readmission for pediatric asthma in south Texas: A case-crossover study. APHA's 2020 Virtual Annual Meeting and Expo (Oct. 24 - 28).
58. Baek J, \* Kash B, Xu X, Benden M, Roberts J, **Carrillo G**. Profile of high utilizers in pediatric asthma hospitalization: Identifying individual and environmental characteristics. APHA's 2020 Virtual Annual Meeting and Expo (Oct. 24 - 28)
57. Roh T, **Carrillo G**. Arsenic exposure and Measles Antibody Titers in US Children: NHANES 2003-2004 and 2009-2010. 32nd annual conference of the International Society for Environmental Epidemiology (ISEE 2020), Virtual Meeting, August 24-27.
56. Baek J,\* Huang K, Cabrera-Conner L, Xu X, **Carrillo G**. Effects of the Home-based Educational Intervention on Health Outcomes among Primarily Hispanic Children with Asthma in US-Mexico Border: A Quasi-Experimental Study. Presented at the American Public Health Association, Philadelphia. Nov 2-6, 2019.
55. Seol YH, Dicks V, Yoo W, **Carrillo G**. Association of multiple chronic conditions and limitations in daily activities among adults in the United States. Presented at the American Public Health Association, Philadelphia. Nov 2-6, 2019.
54. Perez-Patron M, Roque M, \* Conner L, Pena C,\* **Carrillo G**, Brandie D. Taylor. A Community-based approach to identifying the educational needs of Hispanic women at risk of Gestational Diabetes in the Texas-Mexico border. Presented at the American Public Health Association, Philadelphia. Nov 2-6, 2019.
53. Uribe-Salas FJ, **Carrillo G**, Jepson W, Morán J. Enfermedades Diarreicas e Indicadores Sociales y de Acceso al Agua en Viviendas en Torreón, Coahuila, México. Presented on May 29-June 1st, in the XII Congreso Panamericano de Infectología, Luque, Paraguay.
52. Xu X, **Carrillo G**. Glucose Homeostasis, and Insulin Resistance in the USA. International Society for Environmental Epidemiology in the Netherlands, 25 to August 28, 2019
51. Perez Patron MJ, Conner L, Roque M,\* Pena C,\* Yamba L,\* **Carrillo G**, Taylor B. Evaluating the educational needs of Hispanic Women at risk of gestational diabetes in

communities on the Texas-Mexico border. 2019 AMCHP Annual Conference, March 9-12  
San Antonio, Texas

50. **Carrillo G**, Jepson W, Baek J,\* Moran J, Lopez A,\* Uribe Salas F. Household water insecurity, seasonality, and public health challenges in urban Mexico: A cross-sectional study in Torreon. AAG in Washington, DC. April 3-7th, 2019
49. **Carrillo G**, Xu X, Seol YH, Zhong Y,\* Perez-Patron MJ. School-Related Hazardous Air Pollutants in the US-Mexico Border Area and Asthma Prevalence in School Children. Presented at the American Public Health Association for the 145th meeting. Nov 4-8, 2018.
48. Zhong, Y\* Xu X, **Carrillo G**. Serum Folate level and arsenic methylation in the US population NHANES 2003-2012. Presented at the American Public Health Association for the 145th meeting. Nov 4-8, 2017.
47. Seol YH, **Carrillo G**, Bhat A. Predictors of self-perceived health in adults with chronic conditions – a decision tree approach. Presented at the American Public Health Association for the 145th meeting. Nov 4-8, 2017.
46. Johnson NM, Pulczinski JC,\* Rychlik KA, Guo J, Shi W, **Carrillo G**, Zietsman J, Vallamsundar S, Koehler K, Levy M Zhang R. Biomarkers of prenatal exposure to particulate air pollution in US and China populations. American Society National Meeting, Philadelphia, PA, Aug 21-25, 2016.
45. Rychlik KA, Ramani T, McDonald TJ, **Carrillo G**, Koehler K, Zietsman J, Johnson NM. Validation of novel biomarkers of traffic-related ambient air pollution exposure in a susceptible South Texas Population. American Chemical Society National Meeting, Philadelphia, PA, Aug 21-25, 2016.
44. **Carrillo G**, Spence-Almaguer E, Lucio R, Chong-Menard B, Smith K An Integrated Approach to Address Asthma Management in South Texas. Presented at the Binational Health Forum. Universidad Autónoma de Nuevo León, México. October, 2015
43. **Carrillo G.**, Seol YH, Spence-Almaguer, Lucio R, Manzanares JL. An Integrated Approach to Address Asthma Management in US-Mexico Border. Presented at the American Public Health Association for the 143rd meeting. October 31- November 4., 2015.
42. Seol YH, **Carrillo G**, Bhat A, Zuniga M. Applying data analytics to national survey data to explore patient satisfaction with health care providers among multiple chronic conditions. Presented at the American Public Health Association for the 143rd meeting. October 31- November 4, 2015.
41. **Carrillo Zuniga G.**, Chong-Menard B., Pena G., Del Bosque A., Seol YH, Lucio R. Working towards improving Asthma Outcomes in Schools Using a Curriculum Implemented by Respiratory Therapy Students. Presented at the American Public Health Association for the 141st meeting. Nov. 2-6, 2013.
40. Seol YH, **Carrillo Zuniga G.**, Zuniga M. Exploring the Co-occurrence Patterns of Multiple Chronic Diseases in the US Adult Population using association rule discovery. Presented at the American Public Health Association for the 141st meeting. Nov. 2-6, 2013.



39. Seol YH, **Carrillo Zuniga G.**, Zuniga M. Effective Segmentation of the US Aging Population to Improve the Delivery of Preventive Health Services. Presented at the American Public Health Association for the 140th meeting. Oct. 27- 31, 2012.
38. **Carrillo Zuniga, G.**, Dadig B., Seol, YH, Guion K., Rice V., Garza N. Are academic institutions teaching their students about the National Standards for Culturally Appropriate Linguistic Services? Presented at the American Public Health Association for the 140th meeting. Oct. 27- 31, 2012.
37. Zuniga, M., Seol, YH, **Carrillo Zuniga G.** Harmonizing data dictionaries across all health data collection, sharing, and reporting initiatives. Presented at the American Public Health Association for the 140th meeting. Oct. 27- 31, 2012.
36. **Carrillo Zuniga G.**, Jiang L., Mier N., Hellsten J., Garza N., Antonio R., Seol YH. Assessment of a Child Injury Prevention Intervention among Mexican Americans in the Texas-Mexico Border. Presented at the American Public Health Association for the 140th meeting. Oct. 27- 31, 2012.
35. Mier N., Smith M., **Carrillo Zuniga G.**, Garza N., Trevino L., Ory M. Personal and cultural influences on healthy behaviors among older Hispanics with diabetes born in the US and Mexico. Presented at the International Society for Behavioral Nutrition and Physical Activity 2012 Annual Meeting. May 23-26, 2012.
34. Seol, Y., **Carrillo Zuniga, G.**, Zuniga, M. Association Rule Mining on National Survey Data: An Analysis of Timely Receipt of Preventive Care or Screening Examinations. Accepted, American Public Health Association, 139th meeting, October 29-November 2, 2011.  
<http://apha.confex.com/apha/139am/webprogram/Paper246585.html>
33. **Carrillo Zuniga, G.**, Hernandez, D., Kirk, S., Lucio, R., Seol, Y., Zuniga, M. Collaborative Asthma and Healthy Homes Training to Improve Well-Being of Families Living with Asthma in South Texas Colonias. Presented, American Public Health Association, 138th meeting, November 6-10, 2010.  
<http://apha.confex.com/apha/138am/webprogram/Paper219146.html>
32. **Carrillo Zuniga, G.**, Nadeau, N., Chong-Menard, B., Hernandez, D., Lucio, R., Seol, Y., Zuniga, M. A Multi-Institutional Collaboration to Develop a Successful Asthma Education Program for School Settings in South Texas. Presented, American Public Health Association, 138th meeting, November 6-10, 2010.  
<http://apha.confex.com/apha/138am/webprogram/Paper219160.html>
31. Seol, Y., **Carrillo Zuniga, G.**, Zuniga, M. Satisfaction with Health Care Providers among Elderly Populations with Lower Self-Rated Health Status. Presented American Public Health Association, 138th meeting, November 6-10, 2010.  
<http://apha.confex.com/apha/138am/webprogram/Paper225995.html>
30. Seol, Y., **Carrillo Zuniga, G.**, Zuniga, M. Assessing Patient-Centered Communication Using Decision Tree Classification. Presented, American Public Health Association, 138th meeting, November 6-10, 2010.  
<http://apha.confex.com/apha/138am/webprogram/Paper230245.html>

29. **Carrillo Zuniga, G.** Global Climate Change. Texas Public Health Association “Cresting the Wave: 2010 and Beyond”, South Padre Island, Texas, April 21-23, 2010.
28. **Carrillo Zuniga G.**, Mier N., Seol, YH., Villarreal, EK., Lawn-Day, GA., Zuniga, MA. Home safety: Awareness and perceived risks among households with children in the Texas Lower Rio Grande Valley. U.S.-Mexico Border Health Association, 67th Annual Meeting, June 3-5, 2009
27. Mier N., **Carrillo-Zuniga G.**, Villarreal, EK, \* Lawn-Day, GA., Seol YH., Zuniga, MA. Assessing home safety hazards among border older Mexican Americans. US- Mexico Border Health Association, 67th Annual Meeting, June 3-5, 2009
26. **Carrillo Zuniga G.**, Mier N., Seol, YH., Zuniga, MA. Home Safety Assessment among households with children in the Texas Rio Grande Valley. American Public Health Association, 137th meeting, November 7-11, Philadelphia, Pennsylvania, 2009. <http://apha.confex.com/apha/137am/webprogram/Paper199054.html>
25. Seol YH., **Carrillo Zuniga, G.**, Zuniga, M. Assessing Subjective and Objective Health in Elderly Adults: Disparities in Health Status. American Public Health Association, 137 meeting, November 7-11, Philadelphia, Pennsylvania, 2009. <http://apha.confex.com/apha/137am/webprogram/Paper209383.html>
24. Seol, YH., **Carrillo Zuniga, G.**, Zuniga, M. Analyzing Temporal Trends in Public Health Using Association Rule Mining, American Public Health Association, 137 meeting, November 7-11, Philadelphia, Pennsylvania, 2009. <http://apha.confex.com/apha/137am/webprogram/Paper209624.html>
23. Seol YH., Ferrang, C., **Carrillo Zuniga G.**, Zuniga, MA. Developing Evidence-Driven Strategies Using Data Mining for Improving Patient Satisfaction, American Public Health Association 136th meeting. October 25-29, 2008.
22. **Carrillo Zuniga G**, Dadig B, Guion K. “Are Health Care Professionals Aware of the National Standard for Culturally and Linguistically Appropriate Services (CLAS)?” Presented, 135 Annual Meeting, American Public Health Association, Washington, DC, 2007.
21. **Carrillo Zuniga G**, Dadig B, Guion K. “Lessons Learned from a New Medical Spanish Course in a Physician Assistant Program” presented, 135 Annual Meeting, American Public Health Association, Washington, DC, 2007.
20. Seol YH, **Carrillo-Zuniga G**, Zuniga M. “Patient Satisfaction for Improving Evidence-Based Decision Making” presented 135 Annual Meeting, American Public Health Association, Washington, DC, 2007.
19. **Carrillo Zuniga G**, Sumaya C. “Linking Education to Health Promotion in Texas” presented 77 Annual Conference, Georgia Public Health Association, Augusta, GA 2006.
18. **Carrillo Zuniga G**, Dadig B. “Study of Culturally and Linguistically Appropriate Services among Health-Care Professionals” presented 77 Annual Conference, Georgia Public Health Association, Augusta, GA 2006.

17. Seol YH, Zuniga M, **Carrillo Zuniga G**. “Assessing the Knowledge Structure of Public Health for Information Retrieval” presented 77 Annual Conference, Georgia Public Health Association, Augusta, GA 2006.
16. Zuniga M., **Carrillo Zuniga G.**, Seol Y. “Population-Based County Health Assessment. Improvement Simulation Using What-If Scenarios” presented 77 Annual Conference, Georgia Public Health Association, Augusta, GA 2006.
15. Seol YH, **Carrillo Zuniga G.**, Zuniga MA. “Maximizing Use of Public Domain Mapping Tools and Health Care Data” presented, 2nd. Symposium “GIS in Teaching a Research 2006”, Athens, GA, February 23-24, 2006.
14. Zuniga, MA, **Carrillo Zuniga G.**, Seol YH. “Applying GIS to the assessment of nursing home quality in Georgia” 133rd meeting, American Public Health Association, Philadelphia PA, 2005.
13. Zuniga, MA, **Carrillo Zuniga G.**, Alexander J, and Blakely CH. “Preventive health practices in four isolated communities in countries of the Americas.” 133rd meeting, American Public Health Association, Philadelphia, PA, 2005.
12. **Carrillo-Zuniga, G.** “Environmental Health Assessment and Training of Promotoras at Cameron Park Colonia, Brownsville, Texas, presented, American Public Health Association, 130 Annual Meeting and Exposition, Philadelphia, Pennsylvania, November 11, 2002.
11. Zuniga, M.A., Fos, P.J., **Carrillo-Zuniga, G**. “Appropriateness of a Spanish Version of the Child Health Questionnaire in Rural Honduras”, presented, American Public Health Association, 130 Annual Meeting and Exposition, Philadelphia, Pennsylvania, November 11, 2002.
10. Zuniga, M.A., **Carrillo, G**. “Health Status Evaluation with the SF-36 Health Survey for Use in Mexico. A Comparison of Health Scales Profiles Among Healthy Adults in 1995 and 1997”, presented, 15 Annual Meeting, Association for Health Services Research, Washington, DC, 21-23 June, 1998.
9. Fos, P., **Carrillo, G**. White, L., Zuniga, M.A. “Application of Decision Analysis in Environmental and Public Health Planning,” Health Services Research 14 Annual Meeting, Chicago, Illinois, June 1997.
8. Zuniga, M., **Carrillo, G**. Fos, P., Gandek, B. “Population-Based Health Status Norms,” presented, 12 International Meeting, International Society of Technology Assessment in Health Care, San Francisco, California, June 23-26, 1996.
7. **Carrillo Jimenez, G.**, Barcelo, Quintal, M. “Study of the Lead Levels in Samples of Sand, Paint, and Soil in Five Playgrounds in Merida, Yucatan, Mexico,” presented at the X Academic Symposium, University of Yucatan, Merida, Yucatan, Mexico, March 13- 16, 1996.
6. **Carrillo Jimenez, G.**, Zuniga Donaire M., Fos P., Gandek B., Medina, Moreno M. “Evaluation of the Health Status with the SF-36 Survey: Preliminary Results During Its Use in Mexico, presented at the X Academic Symposium, University of Yucatan, Merida, Yucatan, Mexico, March 13-16, 1996.

5. **Carrillo Genny**, Barceló M, Torres R, Manzanilla JC, Sosa, AC. “Lead Levels in Urban Soils in Merida City,” presented at the X National Congress of Analytic Chemistry, Mexico DF, October 25-27, 1995.
4. Castillo I, Pinto D, **Carrillo G**, Ceballos M, Garcia G. “Prevalence of Anencephaly in the State of Yucatan from 1990-1994”, presented at the XX Annual Congress of the Mexican Association of Human Genetics, San Luis Potosi, SLP, Mexico, October 4- 7, 1995.
3. **Carrillo G**, Barceló M, Torres R., Manzanilla J, Sosa AC. “Determination of the Lead Levels in Playgrounds in the City of Merida, Yucatan,” presented at the VII Week of Ecology and Protection to the Environment, Queretaro, Qro. October 30 – November 3, 1995.
2. **Carrillo G**, Barceló M, Torres R, Manzanilla, J, Sosa AC. “Preliminary Study of the Total Lead Levels in Urban Dust in five Zones in the City of Merida and its Comparison with Similar Studies in Mexico”, presented at the Regional Congress on the Conservation of the Natural Resources, Society of Environmental and Sanitary Engineering in Yucatan, November 8–11, 1995.
1. Santos Burgoa C, **Carrillo Jiménez G**. “Master’s in Sciences in Environmental Health,” presented at the “Third Academic Congress in Public Health,” Mexico, D.F., January 29, 1990.

#### **JOURNAL EDITORIAL BOARD ACTIVITIES**

2018-Present      **Associate Editor.** *BMC Public Health*

2018-Present      **Executive Editor.** *Journal of Environmental Research*

#### **TEACHING EXPERIENCE (directed studies not listed)**

Undergraduate Courses Taught:

**PHLT 307 Public Health in Global Context** – Large lecture online format

(Fall 2021, Fall 2022, Spring 2023)

The course provides the framework for understanding public health issues and population health improvement on a global scale. Students will analyze current and emerging global health priorities, such as emerging infectious and chronic diseases, health systems reform, cultural competence, human rights and ethics in global health, global health science and technological innovation, and global health institutions and partnerships.

**PHLT 330 The Environment and Public Health-** Lecture

(Summer 2018, Summer 2021, Summer 2022)

This public health core knowledge course addresses factors that pose risks and hazards to population health in the environment and in specific contexts such as homes, workplaces, consumer products, and in natural and man-made disasters.

### **PHLT 445 Applications of Public Health**

(Spring and Fall 2021, Spring and Fall 2022)

This course combines students' knowledge and skills related to public health experience and coursework to address public health issues. Students will develop, implement, and evaluate public health interventions in groups. As working in and leading groups is essential for public health careers, students can fill different roles in their groups throughout the semester.

### **Graduate Teaching Courses**

#### **PHEO 613 Introduction to Environmental Health Disparities** – Asynchronous online format

Fall 2017-present

The course will review the history and politics of environmental justice movements in the US and other parts of the world, focusing on the methods and materials used to study environmental racism, environmental risk, and sustainable development. Further, the course presents empirical evidence on distributions of environmental quality and health, enforcement of regulations, access to the resources needed to respond to urban, rural, and industrial problems, and the broader political economy of decision-making around environmental and health issues.

#### **PHEO 612 Global Environmental Health**- Asynchronous online format

(Spring 2012-present)

This course addresses environmental problems including, but not limited to, air pollution, climate change, safe drinking water. Maintaining a healthy environment is central to increasing quality of life and extending healthy lifespans.

#### **PHEO 600 Principles of Occupational and Environmental Health** (McAllen class)

(Spring 2015)

This course provides participants with a broad overview of environmental and occupational health challenges and the intervention efforts designed to mitigate them.

#### **PHEO 612 International Environmental Health**- Asynchronous online format

(Spring 2010-2012)

This course was a previous version of PHEO 612.

### ***Medical College of Georgia- Graduate***

#### **IMPH 8700 Introduction to Environmental Health**, Asynchronous online.

(Spring 2005 - 2007)

The purpose of this course was to describe different topics in environmental health sciences, to analyze and evaluate significant environmental health hazards that create a risk to human health, to discuss the importance of the environmental health field in emergency response, and to learn about federal and state regulatory programs related to environmental health issues.

#### **IMPH 8600 Health Promotion**,

(Fall 2005, 2006, and 2007)

Outline the contributions of social and behavioral science theory to the planning and implementing of Primary Health Care programs. Apply relevant social and behavioral theories to diagnose and understand individual, social network, organizational, community, and policy-maker behaviors associated with planning, implementing, evaluating, and maintaining

community-based primary health care programs.

**HIM 199 Introduction to Public Health,**

(Fall 2006 and 2007)

The course provided students with unique access to, and the opportunity to gain a deeper understanding of the health issues of current and emerging global populations including child immunization, risk communication, avian influenza, and managing information in the 21<sup>st</sup> century.

**PAD 5050 Cultural Competence and Medical Spanish,** Department of Physician Assistant;  
(Spring 2005 - 2007)

This course explored how race and ethnicity affect health, healthcare, and policies governing healthcare service delivery. It provided an opportunity for students to gain a deeper understanding of what it means to create environments (social and other) that contribute to the improvement of individual and community health.

**National Institute of Public Health, Mexico City**

**Basic Principles of Toxicology,** the National Institute of Public Health, School of Public Health, Mexico, DF. (graduate).

(Fall 1990)

This course covered the basic principles of toxicology, including dose-response relationships, how chemicals enter the body and how they are metabolized and excreted, significant health outcomes of intoxications, basics of physiology, toxicokinetic, and cellular toxicology.

**INVITED INTERNAL GUEST LECTURES:**

- ***PHEB 621 Foundations of Maternal and Child Health,*** (graduate), 2014 to 2022, TAMU-SPH “*Asthma Research in South Texas.*”
- **NURS 4201** Community Health and Prevention (undergraduate), Spring and Fall from 2007-2012 University of Texas-Pan American Nursing Program. Edinburg, TX. “Asthma Curriculum and Current Research in South Texas”

**Mentoring:**

Roh T, Assistant Professor, Department of Biostatistics and Epidemiology, Texas A&M University, 2019-present.

**GRADUATED DOCTORAL STUDENTS**

Baek J, Dr.PH, **Chair**, graduated in 2021. “Environmental Factors and Hospital Utilization for Pediatric Asthma in South Texas: Air Pollution, Hospital Length of Stay, and Readmissions.

**DISSERTATION COMMITTEES**

**Chair**

Alexander Obeng Boakye- Dr.PH, anticipated graduation in 2023. EOH Department.

Gregory Washington- Dr.PH anticipated graduation in 2024. EOH Department.

Nandita Sakar, Dr. PH, anticipated graduation in 2027. EOH Department.

**Member**

Nishat Tasnim Hasan- Ph.D., anticipated graduation in 2027. Department of Epidemiology and Biostatistics.

**DEPARTMENTAL & UNIVERSITY SERVICE**

- 2022-           **Chair**, Delta Omega Chapter. School of Public Health.
- 2021-           **Member**, ADVANCE Workshop Committee, Texas A&M University, College Station, TX.
- 2020-           **Member**, Committee on Academic Freedom, Responsibility, and Tenure (CAFRT). Texas A&M University, College Station, TX.
- 2016-           **Member**. Alpha Tau Chapter of the Delta Omega Committee. Texas A&M University, College Station, TX.
- 2014-2020      **Member**, Faculty Development Leave Committee, elected Texas A&M University, College Station, TX.
- 2017-2019      **Co-Chair**. Faculty Council Executive Committee, School of Public Health, Texas A&M University, College Station, TX.
- 2018-2019      **Member**, LMS Sub-Committee, Texas A&M University, College Station, TX.
- 2017-2019      **Member**, Grievance Committee, Texas A&M University, College Station, TX.
- 2013- 2020     **Member**, DrPH Admission Committee, School of Public Health, Texas A&M University, College Station, TX.
- 2013-           **Member**, Promotion and Tenure Committee, Environmental and Occupational Health Department, School of Public Health, Texas A&M University, College Station, TX.
- 2004-2005      **Member**, Doctoral Task Force Committee, School of Rural Public Health, Texas A&M University, College Station, TX
- 2005-2007      **Chair**. Curriculum to go Committee of the Medical College of Georgia - School of Allied Health Sciences, Augusta, GA.
- 2005-2007      **Member**, Faculty Council Committee at Medical College of Georgia - School of Allied Health Sciences, Augusta, GA.
- 2005-2007      **Chair**, Faculty Council Committee, MCG Appointment, Development, Promotion, and Tenure Subcommittee at Medical College of Georgia - School of Allied Health Sciences, Augusta, GA.

- 2005-2007 **Member**, Medical Technology Program Advisory Committee at Medical College of Georgia - School of Allied Health Sciences, Augusta, GA.
- 1995-2016 **Member**, Eta Chapter of the Delta Omega Committee. Tulane University School of Public Health and Tropical Medicine, New Orleans, LA.

### **RESEARCH AFFILIATIONS**

- 2020-Current **Visiting Professor**, Universidad de Montemorelos, Nuevo León, México.
- 2019-2022 **Faculty Research Affiliate**, *Center for Population Health and Aging*, School of Public Health, Texas A&M University, College Station, TX.
- 2007-2009 **Adjunct Professor**, Medical College of Georgia School of Allied Health Sciences, Department of Health Informatics, Augusta, Georgia.
- 2007-2009 **Adjunct Professor**, Medical College of Georgia School of Allied Health Sciences, Department of Physician Assistant, Augusta, Georgia.

### **CURRENT PROFESSIONAL ORGANIZATION MEMBERSHIPS**

American Public Health Association  
Academy of Health  
International Water Resource Association

### **PROFESSIONAL ORGANIZATIONS**

- 2022 **Member**. USEPA Board of Scientific Counselors at the Office of Research and Development, Office of Research and Development, Washington, DC.
- 2015-Present **Member**. US-Mexico Border Commission, Research Network Team.
- 2012-2022 **Co-Chair**. Environmental Education Committee, Gulf Task Force, US-Mexico, Border
- 2009-Present **Member**. Advisory Board, Chronic Disease Coalition, DSHS, Austin, TX.
- 2007-2012 **Member**. US Environmental and Protection Agency Border Health 2012 (Gulf Group).
- 2018-Present **Member**. Lead Screening Advisory Group, Texas Department of State Health Services, Austin, TX.
- 2011-Present **Member**. Advisory Committee for the Respiratory Therapy Program, South Texas College, Dr. Ramiro R. Casso Nursing & Allied Health, McAllen, TX.



## **MEDIA & INTERVIEWS**

- 2022 **GQ** highlighted research by Dr. Carrillo G on indoor air quality in this article on it becoming the new wellness fixation. <https://lnkd.in/gVqmAnAA>
- La Voz Hispana.** Interview regarding my asthma program and its inception in College Station, TX, and in the Hispanic communities. <https://www.facebook.com/LaVozHispana/videos/964386360881213>
- The Atlanta Journal-Constitution:** Study Finds Home Indoor Air Quality Isn't as Good as In-Office.
- KBTX Media Channel 3,** Texas A&M researchers find air quality in office buildings better than inside homes (kbtx.com).
- KNX News 97.1 FM** highlighted research in her article "Indoor Air Quality and Health Outcomes in Employees Working from Home during the COVID-19 Pandemic: A Pilot Study." <https://apple.co/3Hzb3cV>
- THEN24 and Fox broadcasts** across the nation highlighted Dr. Roh T and Dr. Carrillo G's research on air quality at home is worse than in an office building.
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- 2021 **The Progressive Magazine** highlighted Dr. Carrillo G's research in their article on COVID-19 leading to higher global maternal mortality rates.
- Scientific American** Interview by Mariana Lenharo. <https://www.scientificamerican.com/article/vaccination-protects-pregnant-people-and-their-babies-from-severe-covid/>
- 2018 **La Laguna Newspaper** interview., Torreón, Coahuila, México (10/19/2018). Water Insecurity in 46% of Households.
- 2017 **Centers for Disease Control.** <https://www.cdc.gov/asthma/pdfs/asthmastories.pdf> Learning as we grow. Evaluation Highlights from National Asthma Control Programs Grantees Select Media Features.
- 2017 **Univision** May 15, 2017: [http://www.univision.com/san-antonio/kwex/noticias/asma/protege-at"s-hijos-de-un-ataque-de-asma-video](http://www.univision.com/san-antonio/kwex/noticias/asma/protege-at)), Asthma Educational Briefs.
- 2016 **KVEO Channel 4 Television,** McAllen, Texas (May 2016). Interview regarding the Asthma and Head Start Centers Study. March 2016. <http://valleycentral.com/news/local/asthma-education-outreachstudy-to-begin-in-hidalgo-county>
- 2014 **The Monitor,** McAllen, Texas, December 1, 2014: [http://www.themonitor.com/opinion/article\\_993bb164-799711e4-92df-4ff3fabb9868.html](http://www.themonitor.com/opinion/article_993bb164-799711e4-92df-4ff3fabb9868.html)), Studying RGV asthma rates. They are detailed A&M

analyses of air quality.

2014 **The Monitor**, McAllen, Texas. March 24, 2014:  
[http://www.themonitor.com/opinion/columnists/article\\_8204a9f6-b156-11e3-acb10017a43b2370.html](http://www.themonitor.com/opinion/columnists/article_8204a9f6-b156-11e3-acb10017a43b2370.html)), Reducing kid's asthma in RGV.

### **GRANT REVIEW ACTIVITIES**

**Reviewer.** *National Association of Professional Women. AAUW Educational Foundation Career Development Grants Selection Panel, December 2022.*

**Reviewer.** *PAR-16-405- NHLBI Single-Site Clinical Trial Applications Review Panel. National Institutes of Health, 2019.*

**Reviewer.** *TAMU-X Grants, 2018*

**Reviewer.** *TAMU-Conacyt, 2018.*

**Reviewer.** *US-Mexico Border EPA, Region 6, Dallas, TX., 2018*

**Reviewer.** *NIH Infectious Disease, Reproductive Health, and Asthma/Pulmonary Conditions (IRAP), October 10-11th, 2017*

**Reviewer.** *NIH Infectious Disease, Reproductive Health, and Asthma/Pulmonary Conditions (IRAP), October 10-11th, 2017.*

**Reviewer.** *NIH/SREA reviewer for a CSR study section, National Institutes of Health., 2016*

**Reviewer.** *NIH Infectious Disease, Reproductive Health, and Asthma/Pulmonary Conditions (IRAP), National Institutes of Health. 2016*

**Reviewer.** *National Association of Professional Women. AAUW Educational Foundation Career Development Grants Selection Panel, December 2008 to 2010*

**Reviewer.** *Southwest Center for Pediatric Environmental Health. The University of Texas, Tyler, TX, 2013-2020.*

### **CONFERENCE ABSTRACT REVIEW ACTIVITIES**

2010- Present **Abstract Reviewer.** American Public Health Association Annual Conference, Environmental Health Section.

2008-Present **Abstract Reviewer.** American Public Health Association Annual Conference, Latino Caucus Section

### **CONFERENCE ORGANIZING ACTIVITIES**

**Session Chair.** An educational asthma event, “*Helping kids take action against asthma,*” for RRTs, RNs, PAs, and School Nurses. McAllen, Texas, June 15, 2019.

**Collaborator.** International Symposium of Water. Impact of Water on Insecurity and Gastrointestinal Diseases” October 18, held in Torreon, Coahuila. School of Medicine, Universidad Autónoma de Torreon, MX., 2018

**Session Chair.** Asthma Triggers in Homes and Schools: What every practitioner needs to know. Weslaco, TX. June 2013.

**Session Chair.** Asthma Triggers in Homes and Schools: What every practitioner needs to know. Weslaco, TX. June 2011

### **PROFESSIONAL DEVELOPMENT, ADVANCED TRAINING & CERTIFICATIONS**

- 2022      **Mentored Research Academy 2022-2023: R01 Boot Camp, Division of Research**, Texas A&M Spring 2022.
- 2021      **Learning Experience Design (LXD) Workshop**, Center for Teaching Excellence, Dean of Faculties, Texas A&M Spring 2021
- 2021      **Design for Transformative Learning**, Center for Teaching Excellence, Dean of Faculties, Texas A&M Spring 2021
- 2020      **Post-Tenure Pathfinders**, National Center for Faculty Development and Diversity. Dean of Faculties, Texas A&M Spring 2020
- 2019      **Faculty Success Program**, National Center for Faculty Development and Diversity. Dean of Faculties, Texas A&M Spring 2019
- 2018      **NIH and NSF Grant Proposal Writing Program.** Professional Development. Office of the Vice President for Research, Texas A&M University. November 13, 2018
- 2017      **Online Teaching Certificate.** Institutional Certificate program, Texas A&M University. December 2017.
- 2016      **Leaders Across Borders Certificate.** Instituto Tecnológico de Monterrey, Mexico, in collaboration with the U.S.-Mexico Border Health Commission, 2016
- 2014      **Leadership Certification** by the Leadership Institute. Human Resources & Organizational Development. Texas A&M University. November 13, 2014.
- 2013      **Evidence-Based Public Health Course:** A Course in Chronic Disease Prevention. July 22-25, 2013. National Association of Chronic Disease Directors, Prevention Research Center in St. Louis, and Texas Department of State Health Services.