Maria Fuentes, MD, MPH

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2022 - present	Applied Statistic Graduate Certificate
	Department of Mathematical Sciences, College of Sciences, University of
	Texas at El Paso.
2018 present	PhD in Interdisciplinary Health Sciences
	College of Health Sciences, University of Texas at El Paso
2015 - 2018	Master in Public Health
	Department of Public Health, University of Texas at El Paso.
	Thesis Title: Environmental and Genetic Factors Affecting Antibiotic
	Resistance of Extended Spectrum β-Lactamase Bacteria from the Rio
	Grande River in El Paso, TX and Cd. Juarez, Mexico.
1998 – 2008	Doctor of Medicine (Surgeon)
	Universidad Autonoma de Ciudad Juárez, Instituto de Ciencias Biomédicas,
	Cd. Juarez, Chihuahua, Mexico.
	Thesis Title: Comparative Study of Antiretroviral Treatment on the Patient
	with HIV/AIDS at IMSS HGZ No. 35 Juarez, Mexico.
	United States Certificate by the Educational Commission of Foreign Medical
	Graduates #0-743-671-0
1999	Emergency Medical Technician
	Cruz Roja Mexicana, Juarez, Mexico.

PROFESSIONAL EXPERIENCE

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2021 - present	Public Health Emergency Manager at Canutillo Independent School
	District, The University of Texas at El Paso
2022	Faculty (Part-time), Department of Biology, El Paso Community College
2021 - present	Lecturer and Teaching Assistant, Department of Social Work, The
	University of Texas at El Paso
2021 - present	SI/CURE Facilitator Instructor, El Paso Community College, El Paso, TX
	Epidemiology Lead, Department of Public Health, Texas Tech University
2021	Health Sciences Center, Lubbock, Texas.
	Graduate Teaching Assistant, Department of Social Work, The University
2021	of Texas at El Paso
	Contact Tracing Case Investigator, College of Health Sciences, University
2018 - 2021	of Texas at El Paso and Texas Department of State Health Services.
	PhD Research Associate, College of Health Sciences, University of Texas
	at El Paso.
2016 - 2018	Master's Graduate Research Assistant, University of Texas at El Paso.
2017	MPH Internship at El Paso Health, Inc., El Paso, TX.
2016	Graduate Teaching Assistant, University of Texas at El Paso.
2015 - 2016	Physician, La Rodadora Espacio Interactivo, Cd. Juarez, Mexico.
2011 - 2015	Physician, Eduardo Covarrubias, MD, PA, El Paso, TX
2009 - 2010	Pharmacy Technician, Walgreens Pharmacy.
2007 - 2008	Social Service at Department of Epidemiology, Servicios Estatales de
	Salud; Secretaria de Salud, Cd. Juarez, Mexico.
2005	Medicine Internship at Instituto Mexicano del Seguro Social HGZ#35, Cd.
	Juarez, Mexico
1999 - 2000	Emergency Medical Technician Instructor, Cruz Roja Mexicana, Cd.
	Juarez, Mexico
1997 - 2000	Emergency Medical Technician, Cruz Roja Mexicana, Cd. Juarez, Mexico
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RESEARCH EXPERIENCE

	Mentor: Bruce Friedman, PhD.
	University of Texas at El Paso
2020	Antibiotic Resistance during the COVID-19 pandemia
	Mentor: Delfina C. Domínguez, PhD.
2040	University of Texas at El Paso
2019	A Point-of-Care Diagnostic Device for the Diagnosis of Antibiotic
	Resistance in Urinary Tract Infections
	Mentor: Delfina C. Domínguez, PhD. University of Texas at El Paso
2018	Antibiotic Resistant Bacteria in the Environment and Hospital Settings.
2010	Mentor: Delfina C. Domínguez, PhD.
	University of Texas at El Paso
2018	Uncovering Fall Injury Risks and Consequences in Hispanic Older
2010	Adult Men Who Accessed Emergency Medical Services (EMS).
	P.I. Guillermina Solis, PhD, APRN, F/GNP
	University of Texas at El Paso
2016 - 2018	A Study of Environmental and Genetic Factors Affecting Antibiotic
	Resistance of Extended Spectrum β-Lactamase Bacteria from the Rio
	Grande River in El Paso, TX and Cd. Juarez, Mexico.
	P.I. Delfina C. Dominguez, PhD.
	Multidrug Resistant E coli in Hospitalized Patients in El Paso, TX and
	Cd. Juarez, Mexico.
	P.I. Delfina C. Dominguez, PhD.
	University of Texas at El Paso
2016 - 2018	The Effect of Cultural Barriers in the Perception of Occupational Risk
	in Mexican Migrant Workers.
	P.I. Gabriel Ibarra-Mejía, MD, PhD
0005 0000	University of Texas at El Paso
2005 - 2006	Comparative Study of Antiretroviral Treatment on the Patient with
	HIV/AIDS at IMSS HGZ No. 35 Juarez, Mexico
	P.I. Alberto Martinez, MD Instituto Mexicano del Seguro Social Hospital #35, Cd. Juarez, Mexico
2003 - 2005	Surgical Treatment of Patent Ductus Arteriosus
2003 - 2003	P.I. Hugo Staines Orozco, MD
	Universidad Autonoma de Ciudad Juarez, Cd. Juarez, Mexico
2004	Treatment Results on Acute Lymphoblastic Leukemia using Total
	Protocol 11/SJCHR on Children of Juarez, Mexico
	P.I. Juan R. Ornelas, MD
	Cd. Juarez, Mexico
TEACHING EXP	
2022	Part-time Faculty, Department of Biology, El Paso Community College

2022	Part-time Faculty, Department of Biology, El Paso Community College
2021	Lecturer, Department of Social Work, UTEP
2021	SI//CURE Facilitator Instructor, El Paso Community College
2021	Teaching Assistant for Department of Social Work
2019	Mentored students from the UTEP COURI Program on a research project
	titled Assessment of Antibiotic Resistance in Effluent from Water
	Treatment Plants and the Community of El Paso, TX. Teaching included
	laboratory training for essential molecular diagnostics and a poster
	presentation by students.
2019	Mentored students from the Building Scholars Program from the El Paso
	Community College on a research project titled Antibiotic Resistance
	Genes in Water from Waste Water Treatment Plants. Teaching included
	laboratory training for essential molecular diagnostics and a poster
	presentation by students.
2016 - 2017	Graduate Teaching Assistant, University of Texas at El Paso

2015 - 2016 1999-2000 First Aid Instructor, La Rodadora Espacio Interactivo, Cd. Juarez, Mexico Emergency Medical Technician Instructor, Cruz Roja Mexicana, Cd. Juarez, Mexico

PEER REVIEWED PUBLICATIONS

Fuentes M; Sepulveda G; Flores M; Mendoza J; Alvarez M; Dominguez, D. (2022) Environmental Dissemination of Carbapenem Resistant Enterobacteria in the Rio Grande River: A Public Health Concern?. Texas Public Health Journal.

Fuentes M; Gutierres S; Sahagun D; Gomez J; Mendoza J; Ellis C; Bauer S; Blattner J; Lee W; Alvarez M; Dominguez D. (2019) Assessment of Antibiotic Levels, Multi-Drug Resistant Bacteria and Genetic Biomarkers in the Waters of the Rio Grande River Between the United States-Mexico Border. *Journal of Health & Pollution*, 9(23).

Staines H, **Fuentes M**, Staines R. (2005) Tratamiento quirúrgico del conducto arterioso persistente. Experiencia de 21 años en un Hospital General. *Revista Mexicana de Cirugia Pediatrica*, 12(1): 39-45.

PRESENTATIONS

Fuentes, M. (2020). Clinical Challenges of Antibiotic Resistant Infections. Oral presentation to be heald at Cinvestat del Instituto Politecnico Nacional, Monterrey, Mexico during the summer of 2020.

Marquez, M; Portillo, D; **Fuentes, M**; Dominguez, D. (2019). Assessment of Antibiotic Resistance Genes in Effluent from Water Treatment Plants through Different Molecular Diagnsotics. Poster presented at the 2019 Art and Science Summer Research Symposium at EPCC, El Paso, TX.

Marquez, M; Portillo, D; **Fuentes, M**; Mendoza, J; Dominguez, D. (2019). Assessment of Antibiotic Resistance Genes in Effluent from Water Treatment Plants and the Community of El Paso, TX. Poster presented at the 2019 COURI Symposium, UTEP, El Paso, TX.

Nunez-Finley, A; Borrego, H; **Fuentes, M**. (2019). Antibiotic Resistance Genes in Water from Waste Water Treatment Plants. Poster presented at the 2019 Art and Science Summer Research Symposium at EPCC, El Paso, TX.

Fuentes, M; Alvarez, M; Wen, Y; Dominguez, D. (2019). Antimicrobial Biomarkers for ESBLs, Integrons and Pharmaceutical Residues in the Environment. Abstract accepted to be presented as a poster session at the Conference on June, 2019 at San Francisco, California.

Fuentes, M; Alvarez, M; Dominguez, D. (2019). Antimicrobial Resistant Genes of Extended Spectrum β -Lactamase and Carbapenem Resistant Enterobacteria in the Environment. Abstract accepted to be presented as a poster session at the Texas Public Health Education Conference on March, 2019 at San Antonio, Texas.

Fuentes, M. Breaking barriers of autism through music. Oral presentation at the 5th Annual Autism Conference at Juarez, Mexico. (March, 2019).

Fuentes, M; Rivera, J; Dominguez, D. (2018). Antibiotic Resistance of Extended Spectrum β-Lactamases (ESBLs) in Hospitalized Patients in the El Paso, TX and Juarez, Mexico Border Area. Poster session presented at the Graduate Student Research EXPO 2018, University of Texas at El Paso, El Paso, TX.

Fuentes, M; Lee, W.; Gutierrez, S; Sahagun, D; Gomez, J; Mendoza, J; Alvarz, M; Dominguez, D. (2018). A Study of Antibiotic Resistance of Extended Spectrum β-Lactamase Bacteria from

the Rio Grande River in El Paso, TX and Cd. Juarez, Mexico. Poster session presented at EPCC's Summer 2018 Art and Science Research Symposium, El Paso, TX.

Fuentes, M. (2018). Music and Autism, a language with no boundaries. Oral presentation at Light it Up Blue for Autism Awareness. University of Texas at El Paso.

Fuentes, M; Dominguez, D; Mendoza, J; Alvarez, M. (2017) A Study of the Environmental and Genetic Factors Affecting Antibiotic Resistance of Bacteria from the Rio Grande River in El Paso, TX – Cd. Juarez, Mexico. Poster session presented at SETAC North American 38th Annual Meeting, Minneapolis, Minnesota.

Fuentes, M; Lee, W; Alvarez, M; Dominguez, D. (2017) Environmental and Genetic Analysis of Antibiotic Resistance in the Rio Grande River in El Paso, TX – Cd. Juarez, Mexico. Poster session presented at the Graduate Student Research EXPO 2017, University of Texas at El Paso, El Paso, TX.

Fuentes, M; Dominguez, D; Mendoza, J; Alvarez, M. (2017) A Study of the Environmental and Genetic Factors Affecting Antibiotic Resistance of Bacteria from the Rio Grande River in El Paso, TX – Cd. Juarez, Mexico. Poster session presented at the Interdisciplinary Research and Education (IDRE) Week "Water Research Symposium" at UTEP, El Paso, TX.

Martinez A. Barrera G, **Fuentes M**. (2006) Comparative Study of Antiretroviral Treatment on the patient with HIV/AIDS at IMSS HGZ No. 35 Juarez, Mexico. Poster session presented at XXXIV Jornada Medica Nacional y XVIII Simposio Internacional del Colegio de Médicos Posgraduados del IMSS, AC Hospital Medico Siglo XXI; Mexico City, Mexico.

Ornelas JR; Staines H; Barrera G; **Fuentes, M**; Gomez, M. (2004) Treatment Results on Acute Lymphoblastic Leukemia using Total Protocol 11/SJCHR on Children of Juarez, Mexico. Poster session presented at 24th International Congress of Pediatrics, Cancun, Mexico.

Barrera, G; **Fuentes M**. (Oct. 2004) Research Protocol: Adult Stem Cell Transplant on animal induced Hepatic Cirrhosis. Oral session presented at National Medical Student Congress of the Universidad Miguel Hernandez de Elche; Alicante, Spain

Barrera, G; **Fuentes M**. (Oct. 2004) Suprarenal Cell Carcinoma on a Pediatric Patient; Case and Review of Literature. Oral session presented at National Medical Student Congress of the Universidad Miguel Hernandez de Elche; Alicante, Spain

Staines, H; **Fuentes, M**. (2004) Surgical Treatment of Patent Ductus Arteriosus. Oral session presented at Iberoamerican Association Congress of Pediatric Surgery, Toledo, Spain.

Staines, H; **Fuentes, M**. (2004) Surgical Treatment of Patent Ductus Arteriosus. Oral session presented at V UACJ Medical Student Congress, Juarez, Mexico.

PROFESSIONAL & COLLEGE AFFILIATIONS

2019 - present	Member of the American Society for Microbiology	
2019 - present	Member of the Texas Public Health Association	
2019 - present	Member of the Alpha Chi National College Honor Society.	
2018 - present	Member of UTEP Alumni Association	
2018 - present	Graduate Student Assembly Representative for the Interdisciplinary Health	
-	Sciences PhD Program, UTEP	
2018	Vice-President for Students for Public Health, UTEP	
2018	Graduate Student Assembly Representative for the MPH Program, UTEP	
2016 - present	Member for the Collegiate Physicians and Researchers Association, UTEP	
2016	Communications Officer for Students for Public Health	
2016	Committee member for the 41st National Institute Conference on Social Work	
	and Human Services in Rural Areas.	

2004	Committee member of The U.S. Mexico Border Health Association
2002 - 2003	Committee member and editor for Expresiones Medicas, UACJ, Juarez,
	Mexico

CERTIFICATIONS & OTHER ONLINE TRAININGS

2020 2020 2020	COVID-19 Contact Tracer Certification, Association of State and Territorial Health Officials Privacy Training including HIPAA, Texas Health and Human Services HHS Information Security and Cybersecurity Training, Texas Health and
	Human Services
2020	The Health Effects of Climate Change, HarvardX Online Course Training Certificate
2017 - 2019	American Heart Association BLS #047858
2016 - present	General Lab Safety, Institutional Biosafety Committee, UTEP
2016 - present	Biosafety & Blood borne Pathogens, Institutional Biosafety Committee, UTEP
2016 - 2019	Collaborative Institutional Training Initiative (CITI)
2012 - present	Educational Commission for Foreign Medical Graduates (ECFMG), United States #0 743 671 0
2010 - present	Physician Certification Professional License, Mexico #6334227
2010 - present	Physician Certification State License, Mexico #10 165 114 S III
2007 - 2009	Texas State Board of Pharmacy #147140 0
1999 – 2001	National School of Emergency Medical Technicians, Cruz Roja Mexicana, Mexico
1999	School of Emergency Medical Technicians, Mexico

COLLABORATIONS/ VOLUNTEER ACTIVITIES

2022	Weekly Community Education Sessions at Canutillo Independent School District
2022 2019	Leader of First Autism Conference at Canutillo Independent School District Member of the Innovative, Multidisciplinary Water Research to Address the Needs of the US-Mexico Border Corridor. Las Cruces, NM.
2019	Leader of the 2 nd Autism Conference held at the Tomas Rivera Conference Center, UTEP, on April 2019.
2018	Leader of the 1st Autism Conference held at the College of Health Sciences at UTEP on April 2018.
2017	Leader of the #EPunidosporHouston event held at Plaza San Jacinto for the relief of people affected by hurricane Harvey

AWARDS

Highlighted Research at ASM Microbe 2019, San Francisco, CA
Outstanding Community Engagement Award, University of Texas at El Paso
Outstanding Participation as a Committee Member of the 41 st National Institute Conference on Social Work and Human Services in Rural Areas "From surviving to thriving: new paradigms in rural social work".
Outstanding Participation and Support to the HOPE Health Opportunity Prevention and Education Fair
1st place award on research and 3rd place award on oral presentation for research titled "Research Protocol: Stem Cell Transplant on animal induced

	<i>cirrhosis</i> ", XXII International Student Medical Congress, University of Elche, Alicante, Spain.
2004	Recognition of support in the realization of the 62 nd Annual Meeting of The
	U.SMexico Border Health Association
2003	Outstanding Participation as an Editorial Committee Member of Expresiones Medicas