

Aparna D. Mangadu, MPH, BS

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EDUCATION

The Ohio State University | Columbus, OH

Graduated: May 2024

Master of Public Health (MPH) – Environmental Health Sciences

GPA: 4.0/4.0

Honors & Activities: University Fellowship; ENGIE-Axiom CPT Scholarship, Dr. Amy Acton Future Leaders of Public Health Scholarship Fund; Public Health Graduate Student Ambassador; Multicultural Public Health Student Association

Thesis: Assessing Potential Smoke Related Exposures to Persistent Organic Pollutants and Cancer Risk Among Structural Firefighters in Ohio

The University of Texas at El Paso | El Paso, TX

Graduated: May 2022

Bachelor of Sciences (B.S.) – Environmental Science, Biology Concentration

GPA: 3.96/4.0

Honors & Activities: UTEP BUILDing Scholars Research Program; UTEP Andalusite Scholarship; Eta Sigma Gamma National Health Education Honorary; Summa Cum Laude Honors

Thesis: Constructing a Plant Species Checklist for Castner Range, Texas and Identifying Important Species Through Species Distribution Models

Montwood High School | El Paso, TX

Graduated: June 2018

High School Diploma

GPA: 101.8/100

Honors & Academic Activities: Salutatorian of class; SYNERGI⁴T-STEM Magnet Program; Robotics Club

EXPERIENCE

Research Specialist | The University of Utah

July 2024 – present

Department of Internal Medicine | Division of Infectious Diseases

- Schedule and lead weekly and biweekly meetings for R01 and R21-33 NIH-funded grants in collaboration with the International Center for Diarrheal Disease Research, Bangladesh (icddr,b) and the Center for Vaccine Development, Mali
 - NIH R01 Grant **R01AI135114** - Development of clinical decision tools for management of diarrhea of children in high and low resource settings
 - NIH R21-33 Grant **R21HD109819-R33HD109819** - A mobile health tool to improve antibiotic stewardship among village doctors in Bangladesh
- Screen electronic health records from outpatient urgent care and emergency room visits for study eligibility
- Maintain and update tracking logs of pediatric diarrhea cases in Utah for participant recruitment
- Recruit, enroll, and conduct in-depth interviews with pediatric patient caregivers
- Recruit, enroll, take notes, and prepare slides for focus group discussions with healthcare providers
- Transcribe, qualitatively code and prepare analytic memos for interview and focus group data
- Provide formatting and edits and facilitate the completion and submission of manuscripts to scientific journals
- Facilitate the completion of IRB and NIH progress reports
- Draft Standard Operating Procedures (SOP) documents for clinical trials
- Provide support for grant submissions (writing, figure curation, and formatting)
- Assist with performing ELISAs, sample dilutions, and sample organization
- Use Covidence to lead a scoping review on longitudinal antibody kinetics to enteric diarrheal pathogens
- Present data, study progress, and scientific article reviews at lab meetings
- Coordinate travel plans for conferences and other events
- Lead the design of scientific research posters for conferences
- Present research findings at and attend scientific conferences

Graduate Research Assistant | The Ohio State University

August 2022 – May 2024

- Collected 124 government, non-government, and private sector group contacts and prioritized contacts to aid in key informant interview and focus group recruitment
- Assisted with toolkit and decision tree review for an EPA funded project
- Scheduled biological sample collection appointments for a clinical research study and processed blood samples and collected serum, plasma, and buffy coats
- Entered wet weight/lipid weight serum sample data for 43 environmental contaminants from 149 serum samples analyzed by the NCEH at the CDC
- Statistically analyzed data from 344 structural firefighters using SAS and R Studio to investigate the relationship between exposure to persistent organic pollutants and cancer risk

- Presented my thesis at research seminars within the college

Ferguson RISE Summer Fellow | Kennedy Krieger Institute

May 2023 – August 2023

- Completed the 10-week CDC-funded Dr. James A. Ferguson RISE Summer Fellowship Program (Cooperative Agreement Number **NU50CD300866**)
- Investigated associations between socioeconomic factors/environmental exposures and social outcomes among 493 children with cerebral palsy
- Attended research seminars from faculty and researchers at Kennedy Krieger Institute and Johns Hopkins University
- Used STATA to quantitatively analyze data from the National Survey of Children's Health (NSCH)
- Gained experience in abstract and manuscript writing and submitted a paper for publication
- Presented a research poster at the Centers for Disease Control and Prevention Showcase

Undergraduate Research Assistant | The University of Texas at El Paso

January 2020 – May 2022

- Conducted biomedical research as a NIH Diversity Scholar in the BUILDing Scholars Research Program (NIH Grant **TL4GM118971**)
- Developed a checklist of 636 unique plant flora using multiple databases to inform local community group efforts for the preservation of Castner Range
- Built maps to determine distribution of ant species and sampling gaps of the Chihuahuan Desert in a collaborative project with Hampton University students
- Informed the office of House Representative Veronica Escobar about the importance of natural history museums and research on Castner Range
- Created a distribution map for the “Elsie Slater Where We Will Grow” exhibit at Centennial Museum
- Communicated research to community members through outreach events (2nd-5th grade students and educators)
- Assigned coordinates (georeferenced) and researched 8355 historical plant and insect records
- Presented an independent research project at 12 state and national conferences

Summer Research Fellow | The University of Utah

June 2021 – August 2021

- Investigated the association of prenatal exposures to environmental hazards and intellectual disability/autism spectrum disorder development among 1,620 children identified in the Utah Population Database
- Used big data sources to analyze air pollutants, lead exposure, and industrial pollutants
- Researched prenatal exposure to neurotoxins via parental hazardous occupations
- Conducted an analysis to investigate the link between lead exposure and health impacts for neurodiverse children using data from the Utah Population Database (UPD), EPA's Risk-Screening Environmental Indicators (RSEI) Microdata, Center for Air, Climate, & Energy Solutions (CACES), and American Community Survey (ACS)
- Systematically reviewed literature to understand the interaction between greenspace access and academic performance of school aged children
- Participated in the Health, Air Pollution, and Population Initiative in Education and Science Training (HAPPIEST) (NIH Grant **R25ES031497**) Summer Program
- Presented a research poster at the end of summer symposium

Cancer Research Assistant | Texas Tech University Health Sciences Center

August 2019 – December 2019

- Passaged/cultured breast cancer cells
- Created presentations on pancreatic cancer literature

Summer Research Fellow | The University of Texas Health Science Center Houston

June 2019 – August 2019

- Designed a website to address HPV vaccine barriers for minoritized groups
- Presented project at the end of summer research symposium
- Presented as a finalist in an elevator speech competition

Pharmaceutical Intern | University Medical Center at El Paso

June 2017 – July 2017

- Filed over 100 patient prescription orders and refills
- Improved waiting time by providing scheduling information
- Practiced patient care and confidentiality

PUBLICATIONS

Published

Kimani SM, Suneja G, Bula A, Wu C, Khatri A, Bakshi N, Hanson OR, **Mangadu A**, Tisdya M, Stockton MA, Knettel BA, Watt MH. Development and Psychometric Properties of a General Cancer Stigma Scale. In Press at the *International Journal of Cancer*. Accepted 9/2/2025.

Dallas S, **Mangadu A**, Das JB, Hanson OR, Khan ZH, Amin MA, Khan II, Islam MT, Biswas D, Munim MS, Shihab RM, Alam AN, Shirin T, Qadri F, Putnam J, Nelson EJ, Khan AI, Leung DT, Watt MH. (2025). Parents' expectations for the management of pediatric diarrhea in the clinical setting: perspectives of parents and physicians in Bangladesh. In Press at the *Journal of Tropical Pediatrics*, <https://doi.org/10.1093/tropej/fmaf044>

Jones A, **Mangadu A**, Dallas S, Hanson OR, Arn K, Gesteland P, Szymczak JE, Pavia AT, Leung DT, Watt MH. (2025). Parent and provider perspectives on diagnostic testing in children with diarrhea. *JAMA Network Open*, <https://doi.org/10.001/jamanetworkopen.2025.31000>

Khan ZH, Hanson OR, Amin MA, Khan II, Biswas D, Islam MT, Nelson EJ, **Mangadu A**, Qadri F, Watt MH, Leung DT, Khan AI. (2025). Physicians' Perspectives Regarding Informal Health Practitioners in Bangladesh. *The American Journal of Tropical Medicine and Hygiene*, <https://doi.org/10.4269/ajtmh.24-0597>

Khan II, Hanson OR, Amin MA, Biswas D, Das JB, Munim MS, Shihab RM, Islam MT, **Mangadu A**, Nelson EJ, Ahmed SM, Qadri F, Watt MH, Leung DT, & Khan AI. (2024). Potential for an Electronic Clinical Decision Support Tool for Support Appropriate Antibiotic Use for Pediatric Diarrhea Among Village Doctors in Bangladesh. *Journal of the Pediatric Infectious Diseases Society*, <https://doi.org/10.1093/jpids/piae094>

Mangadu A, Zhuang M, & Moody ML. (2023). Vascular plant list of the Castner Range National Monument in the Franklin Mountains, Texas, USA. *Journal of the Botanical Research Institute of Texas*, <https://www.jstor.org/stable/27284710>

Grineski SE, Renteria R, Collins TW, **Mangadu A**, Alexander C, Bilder D, & Bakian A. (2022). Associations between estimates of perinatal industrial pollution exposures and intellectual disability in Utah children. *Science of The Total Environment*, <https://doi.org/10.1016/j.scitotenv.2022.155630>

Grineski SE, Griego A, Mullen C, Collins TW, Nadybal S, & **Mangadu A**. (2022). Environmental Injustice, Tree Canopy Cover, and Academic Proficiency at Utah Public Primary Schools. *Environmental Justice*, <https://doi.org/10.1089/env.2021.0113>

Under Review

Mangadu A, Putnam J, Dallas S, Das JB, Munim MS, Shihab RM, Khan II, Hanson OR, Khan ZH, Islam MT, Biswas D, Amin MA, Qadri F, Leung DT, Khan AI, Watt MH. Why do parents take their children to informal healthcare providers? Insights from Bangladesh. Under Review at *The American Journal of Tropical Medicine and Hygiene*. [Accept with minor revision]

Biswas D, Watt MH, **Mangadu A**, Das JB, Munim MS, Shihab RM, Khan ZH, Amin MA, Khan II, Islam MT, Hanson OR, Nelson EJ, Qadri F, Leung DT, Khan AI. Drivers of Antibiotic Use for Pediatric Diarrhea Among Village Doctors in Rural Bangladesh. Under Review at *PLOS ONE*. [Revise and resubmit]

Amin MA, Watt MH, **Mangadu A**, Khan ZH, Khan II, Hanson OR, Islam MT, Biswas D, Das JB, Munim MS, Alam AN, Shihab RM, Shirin T, Nelson EJ, Qadri F, Leung DT, Khan AI. Perspectives on Antibiotic Stewardship for Pediatric Patients in Bangladesh: Insights from Clinicians and Patient Families. Under Review at the *Journal of Biosocial Science*.

Khatri A, Watt MH, Bakshi N, Suneja G, Hanson OR, Bula A, Tsidya M, **Mangadu A**, Stockton MA, Kimani SM. Social Support Across the Cancer Care Continuum in Malawi: Narratives from Cancer Survivors. Under Review at *Social Science & Medicine*.

In Progress

Mangadu A, Clutter C, Jacobson K, Heiner T, Bhuiyan MS, Trivedi S, Azman A, Arnold BF, Leung DT. Longitudinal Antibody Responses to *Vibrio cholerae*: A Scoping Review. In Preparation.

Mangadu A, Gorny N, Shenoy SS, Salib P, Belcher HME, Yang Xuhao, Riordan HR, Hoon AH, Chin EM. Grade Retention and Extracurricular Participation in Children with Cerebral Palsy. Reformatting for submission.

SKILLS & TECHNICAL TOOLS

Research Skills: Data Entry, Database Management, Qualitative/Quantitative Analysis, Participant Recruitment, Stakeholder Engagement, Biological Sample Collection & Processing, Literature Reviews, Scoping Reviews, Data Cleaning, Abstract Writing, Research Poster Design, Scientific Presentation, Manuscript Writing, Grant Writing

Software:

Beginner: SAS, REDcap, SPSS, MAXQDA, Adobe Photoshop

Intermediate: ArcGIS Pro, ArcMap, Qualtrics, STATA, QGIS, R Studio, NVivo, Zotero, Covidence

Advanced: Microsoft Office (Excel, Word, PowerPoint, Sway), OneDrive, Zoom, Slack, Canva, BioRender, BOX

AWARDS & HONORS

OSU College of Public Health Graduate Poster Day – Best Poster	April 2024
Dr. Amy Acton Future Leaders of Public Health Scholarship Fund	August 2023-May 2024
ENGIE-Axiom Curricular Practical Training Scholarship	May 2023-July 2023
OSU University Fellowship	August 2022-May 2023
Summa Cum Laude Honors	May 2022
ESG Scholarship Key	April 2022
Honors Convocation Honoree and Outstanding Undergraduate Thesis	April 2022
John and Vida White Award	July 2021
DEER's 35 th Annual Colloquium – 1 st place in poster session	April 2021
DEER's 35 th Annual Colloquium – John and Vida White Endowment Award	April 2021
UTEP NIH BUILDing Scholars Research Award	Fall 2018-Spring 2022
UTEP Andalusite Scholarship	Fall 2018-Spring 2022

ACTIVE CERTIFICATIONS

Collaborative Institutional Training Initiative (CITI Program)

Good Clinical Practice (US FDA Focus)	March 2025
Group 1. Biomedical Research Investigators and Key Personnel	July 2024
Biomedical Responsible Conduct in Research (RCR)	February 2024
Human Subjects Research - Biomedical Research	June 2023
Information Privacy Security – Researchers	June 2023

University of Utah Bridge

BSL-2 and Bloodborne Pathogens-EHS	November 2024
Viral Vectors (Research)-EHS	November 2024

CLUBS & ORGANIZATIONS

This is Public Health Ambassador Program <i>Association of Schools and Programs of Public Health</i>	Virtual Summer 2023 – Spring 2024
Multicultural Public Health Student Association (MPHSA) <i>The Ohio State University</i> <ul style="list-style-type: none">Spring 2023-Spring 2024 Vice PresidentSpring 2024 Service Champion Award	Columbus, Ohio Spring 2023 – Spring 2024
Public Health Graduate Student Association <i>The Ohio State University, College of Public Health</i>	Columbus, Ohio Fall 2022 – Spring 2024
Diversity, Equity, and Inclusive Excellence Committee Student Representative <i>The Ohio State University, College of Public Health</i>	Columbus, Ohio Fall 2022-May 2023
Eta Sigma Gamma National Health Education Honorary <i>The University of Texas at El Paso</i> <ul style="list-style-type: none">Fall 2021 Treasurer Spring 2022 Vice President	El Paso, Texas Fall 2020- Spring 2022
Texas MedstART Program <i>UT Non-Profit Organization</i> <ul style="list-style-type: none">Taught an online painting workshop that was distributed to children's hospitals	Austin, Texas (virtual) Fall 2020-Spring 2021

Student Government Association Excel Program*The University of Texas at El Paso*

El Paso, Texas

Fall 2020

Coordinated Community Response (CCR) for Campus Violence Prevention*The University of Texas at El Paso*

El Paso, Texas

Fall 2020

- Social media consultant for designing “Dating but Make it Healthy” social media challenge

COMMUNITY ENGAGEMENT

National Public Health Week Playhouse Build*Habitat for Humanity*

Columbus, Ohio

April 2024

- Helped build a playhouse to provide a safe place to play for a family with young children
- Earned the Service Champion Award for our student organization (MPHSA)

Winter Necessities Drive Organizer*OSU Multicultural Public Health Student Association*

Columbus, Ohio

December 2023

- Donated several winter necessities and personal care products to a local nonprofit

Community Garden Clean Up Volunteer*Local Matters*

Columbus, Ohio

September 2023

- Cleaned up and harvested vegetables from garden beds in a community learning garden

National Public Health Week Playhouse Build*Habitat for Humanity*

Columbus, Ohio

April 2023

- Helped build a playhouse to provide a safe place to play for a family with young children

National Public Health Week Canned Food Drive Organizer*The Ohio State University College of Public Health*

Columbus, Ohio

April 2023

- Collected and donated 200 pounds of food to a local food bank

Student Usher*Racial Equity through Action and Learning: Walking the Walk*

Columbus, Ohio

October 2022

College Student Mentor*Cowboy Companions Mentoring Group*

El Paso, Texas

January 2020 – March 2020

- Served as a college student mentor to local middle school students

Community Service Volunteer*Mujer Saludable, Familia Feliz Program*

El Paso, Texas

June 2017

PROFESSIONAL DEVELOPMENT

RSRC 4033 Workshops*UTEP Building Scholars Wintermester Professional Development Series*

El Paso, Texas

December 2018-2020

- The Research Notebook, Introduction to NIH and NIH Careers, Responsible Conduct of Research, How to be a Good Mentee, Preparing an Abstract for a Conference Presentation, Preparing Resumes and CVs I and II, Crafting a Personal Statement, Finding Work-Family Balance in Research, Preparing Research Reports, How to Travel to Conferences, How to be a Good Mentor, Applying to Graduate School, Entrepreneurship

Toastmasters Communication and Leadership Series*CPRIT Summer Fellowship 2019*

Houston, Texas

July 2019

ORAL PRESENTATIONS

Mangadu, A., Adetona, O., Odei, J. (2024, April). Assessing Potential Smoke Related Exposures to Persistent Organic Pollutants and Cancer Risk Among Structural Firefighters in Ohio. The Ohio State University College of Public Health Environmental Health Sciences Seminar Series, Columbus, Ohio.

Mangadu, A., Chin, E., Gorny, N., Salib, P. (2023, August). Social Determinants and Social Outcomes: An Examination of Academic and Community Participation Outcomes in Children with Cerebral Palsy. Ferguson RISE Summer Research Symposium, Virtual.

Mangadu, A., Renteria, R., Grineski, S., Collins, T., Bakian, A., Bilder, D. (2021, August). Associations between an Indicator of Perinatal Lead Exposure and Intellectual Disability in Utah Children with and without Autism Spectrum Disorder. URADD presentation, Virtual.

Mangadu, A., Zhuang, M., Moody, M. (2021, July). Constructing a Plant Species Checklist for Castner Range, Texas and Identifying Important Species Through Species Distribution Models. Botany 2021 Virtual Conference, Virtual.

POSTER PRESENTATIONS

National/Society Presentations

Mangadu A, Clutter C, Jacobson K, Heiner T, Bhuiyan MS, Trivedi S, Azman A, Arnold BF, Leung DT. (2025, November). Longitudinal Antibody Responses to *Vibrio cholerae*: A Scoping Review. The American Society of Tropical Medicine and Hygiene 2025 Annual Meeting, Toronto, Canada.

Mangadu A., Amin MA., Khan AI., Watt MH., Leung DT. (2025, February). Healthcare Providers' Perspectives on Antibiotic Stewardship: A qualitative Study in Bangladesh. Consortium of Universities for Global Health Annual Meeting, Atlanta, Georgia.

Mangadu, A., Chin, E., Gorny, N., Salib, P., Shenoy, S. (2024, October). Social Determinants, The Home Environment and Social Outcomes: An Examination of Academic and Community Participation Outcomes in Children with Cerebral Palsy. American Public Health Association 2024 Annual Meeting, Minneapolis, Minnesota.

Mangadu, A., Chin, E., Gorny, N., Salib, P. (2023, July). Social Determinants and Social Outcomes: An Examination of Academic and Community Participation Outcomes in Children with Cerebral Palsy. Centers for Disease Control and Prevention Showcase and Expo, Atlanta, Georgia.

Mangadu, A., Zhuang, M., Moody, M. (2022, April). Constructing a Plant Species Checklist for Castner Range, Texas and Identifying Important Species Through Species Distribution Models. Posters on the Hill 2022, Virtual.

Mangadu, A., Zhuang, M. (2021, April). Constructing a Plant Species Checklist for Castner Range, Texas and Identifying Important Species Through Species Distribution Models. National Conference on Undergraduate Research (NCUR) 2021@home, Virtual.

Mangadu, A., Zhuang, M. (2021, April). Constructing a Plant Species Checklist for Castner Range, Texas and Identifying Important Species Through Species Distribution Models. 2021 DPC NIH Diversity Consortium Virtual Research Symposium, Virtual.

Regional Presentations

Mangadu, A., Zhuang, M., Moody, M. (2022, April). Constructing a Plant Species Checklist for Castner Range, Texas and Identifying Important Species Through Species Distribution Models. Southwestern Association of Naturalists (SWAN) 2022 Annual Meeting, Virtual.

Mangadu, A., Zhuang, M., Moody, M. (2022, February). Constructing a Plant Species Checklist for Castner Range, Texas and Identifying Important Species Through Species Distribution Models. Texas Academy of Science 125th Annual Meeting, Houston, Texas.

Local/University Presentations

Mangadu A, Clutter C, Jacobson K, Heiner T, Bhuiyan MS, Trivedi S, Azman A, Arnold BF, Leung DT. (2025, September). Longitudinal Antibody Responses to *Vibrio cholerae*: A Scoping Review. The University of Utah Microbiology and Immunology Retreat, Midway, Utah.

Mangadu, A., Adetona, O., Odei, J. (2024, April). Assessing Potential Smoke Related Exposures to Persistent Organic Pollutants and Cancer Risk Among Structural Firefighters in Ohio. The Ohio State University College of Public Health Graduate Student Poster Day, Columbus, Ohio.

Mangadu, A., Zhuang, M., Moody, M. (2022, April). Constructing a Plant Species Checklist for Castner Range, Texas and Identifying Important Species Through Species Distribution Models. COURI Spring Symposium, El Paso, Texas.

Mangadu, A., Zhuang, M., Moody, M. (2022, March). Constructing a Plant Species Checklist for Castner Range, Texas

and Identifying Important Species Through Species Distribution Models. Department of Earth, Environmental & Resource Sciences 36th Annual Colloquium, El Paso, Texas.

Mangadu, A., Renteria, R., Grineski, S., Collins, T., Bakian, A., Bilder, D. (2021, September). Associations between an Indicator of Perinatal Lead Exposure and Intellectual Disability in Utah Children with and without Autism Spectrum Disorder. Building Scholars Fall Research Symposium, El Paso, Texas.

Mangadu, A., Renteria, R., Grineski, S., Collins, T. (2021, August). Using Big Data to Estimate Prenatal Environmental Exposures. University of Utah Virtual Summer Symposium, Salt Lake City, Utah.

Mangadu, A., Zhuang, M. (2021, April). Constructing a Plant Species Checklist for Castner Range, Texas and Identifying Important Species Through Species Distribution Models. COURI Spring Symposium, El Paso, Texas.

Mangadu, A., Zhuang, M. (2021, April). Constructing a Plant Species Checklist for Castner Range, Texas and Identifying Important Species Through Species Distribution Models. Department of Earth, Environmental & Resource Sciences 35th Annual Colloquium, El Paso, Texas.

Mangadu, A., Zhuang, M. (2020, September). Applying Georeferencing Methods to Construct a Checklist of Plant Species Found within Castner Range, Texas. BUILDing Scholars Fall Research Symposium, El Paso, Texas.

Mangadu, A., Zhuang, M. (2020, July). Applying Georeferencing Methods to Construct a Checklist of Plant Species Found within Castner Range, Texas. COURI Summer Symposium, El Paso, Texas.

Mangadu, A., Welski, A., Loomba, P., Fernandez, M. (2019, September). Increasing HPV Vaccination Coverage Among Hispanic Women in El Paso, Texas by Addressing Cultural and Social Barriers. BUILDing Scholars Fall Research Symposium, El Paso, Texas.

Mangadu, A., Welski, A., Loomba, P., Fernandez, M. (2019, August). Increasing HPV Vaccination Coverage Among Hispanic Women in El Paso, Texas by Addressing Cultural and Social Barriers. CPRIT Summer Research Symposium, Houston, Texas.