

MONA ARORA

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CHRONOLOGY OF EDUCATION

University of Arizona

Ph.D., *Doctor of Philosophy in Geography, minor in Remote Sensing and Spatial Analysis*

Dissertation title: Enhancing Public Health Response to the Health Impacts of Climate Change: Needs, Gaps and Opportunities

Tucson, AZ August 2010-2019

Tulane University School of Public Health & Tropical Medicine

M.S.P.H., *Master of Science in Public Health in Tropical Medicine*

New Orleans, LA June 2004-May 2005

University of Arizona

B.S., *Bachelor of Science in Molecular & Cellular Biology with a minor in Classics*

Tucson, AZ June 1999-May 2004

CHRONOLOGY OF EMPLOYMENT

Mel & Enid Zuckerman College of Public Health (MEZCOPH)

Assistant Research Professor

Tucson, AZ Summer 2021- Present

- Develop research projects and proposals centered on climate and health adaptation, workforce development, and capacity building.
- Coordinate and contribute to the writing of proposals, manuscripts, and reports.
- Provide technical assistance on and contribute to design and implementation of grants, projects, and initiatives relating to One Health, Climate Change, Environmental Justice, Health Equities
- Represent the College, Program, and Institution on state and county level public health committees relating to health improvement planning, emergency preparedness, and health equity.
- Develop and implement evaluation strategy to track program outcomes and deliverables.
- Collaborate with internal and external partners including health departments, community organizations, and healthcare system entities.
- Coordinate and manage project activities and evaluation.
- Serve as lead instructor for climate change and health courses.
- Mentor graduate and undergraduate students.
- Engage in scholarly activities to enable the translation and application of research to inform decision-making.

Center for Rural Health, Mel & Enid Zuckerman College of Public Health (MEZCOPH)

Principal Investigator

Tucson, AZ Summer 2021- Present

- Oversee implementation and management of the ADHS COVID-19 Health Disparities grant for the Arizona Center for Rural Health.
- Supervise and manage a team of at least 6 full-time staff and 3 Graduate Research Assistants.

- Oversee design, implementation, and evaluation of 16 projects associated with the grant.
- Facilitate grantee network communities of practice on COVID health disparities across rural and underserved communities.
- Represent and provide rural perspectives on Arizona Health Improvement Planning workgroups and communities of practice.
- Develop and expand partnerships across healthcare and non-healthcare partners.
- Inform and guide the development of capacity building activities for LHD and community partners including the Library and Youth Champions Programs
- Guide and oversee implementation of sub-awards and sub-contracts with rural partners (e.g., Area Health Education Centers, Arizona Hospital & Healthcare Administration) to implement projects relating to workforce development.
- Facilitate the development of manuscripts and evaluation reports.

UArizona COVID-19 Response Incident Command

Operations/Public Health Officer

Tucson, AZ Summer 2020- Spring 2023

- Provide subject matter expertise to the UArizona pandemic response.
- Participate in pandemic response related sub-groups and committees.
- Facilitate the development and implementation of vaccine distribution plans.
- Evaluate plans and procedures for campus re-entry.
- Inform the development of strategies and interventions aimed at workforce and student safety.
- Collaborate with partners and stakeholders internally and across the community.

UArizona COVID-19 Response Incident Command

Vaccine Taskforce Co-Lead/Public Health Officer

Tucson, AZ January 2021-July 2021

- Lead the activation and oversight of the vaccine Point of Distribution.
- Chair and coordinate Campus COVID-19 Vaccine Equity Taskforce.
- Inform and develop operational plans including POD Safety Plan and Extreme Heat Plan.
- Communicate with media on POD operations as needed.
- Build equity in all COVID response considerations and efforts.
- Facilitate the development and implementation of vaccine distribution plans.
- Support the activation and oversight of the vaccine Point of Distribution.

Mel & Enid Zuckerman College of Public Health (MEZCOPH)

Principal Research Specialist/Research Scientist III

Tucson, AZ Summer 2017- 2021

- Support development of grant applications.
- Develop a graduate course on Systems Thinking in One Health.
- Develop a graduate course on the Health Impacts of Environmental Change.
- Collaborate with faculty to inform the development of the Undergraduate One Health Program.
- Coordinate and inform manuscript development including scoping literature reviews.
- Conduct program outreach activities for the Community, Environment, and Policy Division.
- Develop and implement Institutional Review Board applications for funded studies.
- Facilitate survey design and implementation for workforce training activities.

- Oversee data entry, management, and quality control for preparedness program.
- Facilitate development of educational components for online course delivery.

National Association of City and County Health Officials

Consultant

Tucson, AZ November 2019- May 2020

- Inform the development of a Climate Action Plan.
- Conduct literature review on health impacts of climate change.
- Facilitate health department focus group sessions.
- Conduct key informant interviews.
- Develop project reports summarizing key findings and recommendations.
- Develop guidelines and recommendations for health department workforce engagement on climate change.

Mountain West Preparedness & Emergency Response Learning Center (MWPERLC)

Research Specialist Senior/Principal

Tucson, AZ January 2006-2010; 2011-2017

- Manage Center staff and provide guidance on grant associated activities.
- Maintain oversight of grant associated project activities with service area partners.
- Coordinate public health training and curriculum development activities for program stakeholders.
- Collaborate with MWPERLC staff, faculty, and other course content team members to direct, monitor and participate in research activities including data collection, evaluation, and analysis for the curriculum project.
- Serve as the public information liaison to coordinate training activities with Training Coordinators/Tribal Liaisons in service area states.
- Develop and implement project evaluation tools and associated reports aligned to CDC standards.
- Conduct longitudinal program evaluation and develop mechanisms to monitor effectiveness of online and face-to-face courses.
- Design evaluation tools for various courses and educational programs.
- Design, coordinate and facilitate Homeland Security compliant emergency exercises.
- Facilitate and conduct in-person training targeted at local, state, and tribal public health professionals.
- Develop online, competency-based public health emergency preparedness curriculum and Just-in-Time Training for partner-requested activities in the Southwest.

Honors & Awards

University

- MEZCOPH Excellence in Community Engagement & Outreach Award. (December 2023)

SERVICE & OUTREACH ACTIVITIES

Local & State

- AZPHA Resolution on Structural Racism Development Committee Member (September-October 2023)

- NIH AZ Community Engagement Alliance (October 2022- present)
- Pima County Health Department Ethics Committee (March 2021- present)
- Pima County Health Department Community Advisory Committee (May 2021- present)
- Pima County Cooling Center Planning Group (April 2021-October 2022)

National & International

- Lancet Countdown U.S. Policy Brief Working Group Member & Reviewer. (September 2020-present)
- [National Network of Public Health Institutes. Environmental Health & Climate Change Workgroup](#) Member. (April 2022- present)
- National Academies of Sciences, Engineering, and Medicine and the Gulf Research Program. Reviewer for Understanding the Effects of Climate Change on Environmental Hazards in Overburdened and Underserved Communities funding opportunity. (November 2022-February 2023)
- National Association of City and County Health Officials (NACCHO) Climate Change Workgroup Committee- Member. (July 2016-June 2023)
- National Adaptation Forum Program Committee- Member. (Spring 2019- December 2022)
- American Public Health Association- Member. (September 2017-present)

University Committees

- University of Arizona Campus Incident Response Team (CIRT) Mass Clinic Planning Committee- Chair (2009-2023)
- UA CIRT Pandemic Influenza Planning Committee- Member (2009-present)
- Mel & Enid Zuckerman College of Public Health Staff Advisory Committee- Member (2012-2013)
- Volunteer Facilitator for Pandemic: An Interprofessional Exercise in Disaster Preparedness (2012, 2014-17)

TEACHING

Courses Taught

- **EHS 425/525: A Public Health Lens to Climate Change (EHS 45/525)** *Mel & Enid Zuckerman College of Public Health, University of Arizona.* Spring 2023, 2024
- **EHS 525: Global to Local: Environmental Change and Human Health** *Mel & Enid Zuckerman College of Public Health, University of Arizona.* Spring 2019-2022
- **EHS 425: A Public Health Lens to Climate Change (EHS 425)** *Mel & Enid Zuckerman College of Public Health, University of Arizona.* Fall 2020, 2021
- **EHS 489/589: Public Health Preparedness** *Mel & Enid Zuckerman College of Public Health, University of Arizona.* Fall 2013-Fall 2020

Invited Teaching Presentations

- RNR 440/540: Guest lecture on Emerging Issues in Adaptation (Fall 2023)
- College of Medicine MED 896A: Guest lecture on Introduction to Climate Change in Healthcare Delivery (Fall 2019-2023)
- CPH 575: Guest lecture on Public Health Emergency Preparedness (Fall 2015-present)

- HPS 433: Guest lecture on Global Health: Introduction to Climate Change and Health (Fall 2019, 2020)
- HPS 200: Guest lecture on Climate Change and Health (Fall 2020-2023)

Non-Credit bearing Courses

- Pandemic Interprofessional Education & Professionalism. Chair. (January 2022- present)

Courses in Development

- Climate Change and Health Interprofessional Education & Professionalism. Chair. (June 2023-present).
- Rural Health Professions Program Climate Change and Health Course. To be offered Fall 2024.
- MPH Online Global Health Program: EHS 525 A Public Health Lens to Climate Change. To be offered in Summer 2024.

Mentoring and Advising

- **Harrison Brown**, Undergraduate Intern, Center for Transformative Interprofessional Healthcare (Fall 2023-present).
- **Kavina Kamkhanthee**, Graduate Research Assistant, Arizona Center for Rural Health. Project title: A Thematic Analysis of Youth Engagement during COVID-19 Pandemic Decision-Making in the State of Arizona. (Spring 2023-Spring 2024).
- **Denise Moreno**, Presidential Post-doc. (Fall 2023-present).
- **Royani Saha**, Doctoral graduate student (Fall 2023-present)
- **Jared Barnett**, UA College of Medicine, Global Health Distinction Track. Capstone Project: The Impact of Politics, Pollution, and Climate Change on COVID-19 morbidity & mortality in Thailand: A Review. (Fall 2023).
- **Natasha Rapp**, Graduate Research Assistant, Rural Health Professions Program. Project title: Integrating Climate, Health, and Equity into MEZCOPH Service-Learning Courses. (Spring 2022-Spring 2023).
- **Marianna Grigorov**, Graduate Research Assistant, Center for Rural Health. Project title: Climate Change & COVID Lessons Learned. (Fall 2022-Spring 2023).

GRANTS & CONTRACTS

Awarded

- **National Institutes of Environmental Health Sciences** (\$3,814,815, Co-Principal Investigator). Southwest Center on Resilience for Climate Change and Health (SCORCH). September 2023 to August 2026.
- **TRIF Funding**. (\$100,000, Co-Investigator). Resilience Informatics for Public Health. May 2023-June 2024.
- **United States Environmental Protection Agency** (\$9,999,979, Co-Investigator). Western Environmental Science Technical Assistance Center for Environmental Justice (WEST EJ Center). May 2023 to May 2028.
- **Centers for Disease Control & Prevention** (\$8,094,106.00, Principal Investigator). National Initiative to Address COVID-19 Health Disparities Among Populations at High-Risk and Underserved, Including Racial and Ethnic Minority Populations and Rural Communities. June 2021 to May 2023.

- **Health Resources and Services Administration** (\$4.1 million, Co-Investigator). Western Region Public Health Training Center. July 2022-June 2026.
- **University of Arizona Office for Research, Innovation, and Impact Workshop Grant** (\$25,000, Principal Investigator). COVID, Climate Change, and Preparedness: Lessons Learned Workshop. November 2022- June 2023.
- **MEZCOPH Dean’s Annual Fund (\$2,500, Principal Investigator)**. COVID, Climate Change, and Preparedness: Lessons Learned Workshop. November 2022- June 2023.
- **UArizona Office for Research, Innovation, and Impact Reopening Grants** (\$25,000, Principal Investigator). UArizona Frontline Worker Wellbeing Survey. Co-investigators: Brian Mayer. July 2020- June 2021.
- **UArizona Office for Research, Innovation, and Impact Reopening Grants** (\$38,000, Principal Investigator). UArizona COVID-19 Point of Dispensing & Vaccine Delivery Evaluation Plan. March 2021- June 2021.

Submitted

- **2024 Institute of Museum and Library Services National Leadership Grants for Libraries.** Rural and Small Libraries: Community Hubs Partnering on Public Health. (\$249,990) Principal Investigator. *Pre-proposal submitted and invited to apply.*

In-progress

- **2024 Institute of Museum and Library Services National Leadership Grants for Libraries.** Rural and Small Libraries: Community Hubs Partnering on Public Health. (\$249,990) Principal Investigator.

PUBLICATIONS & PRESENTATIONS

Peer Reviewed Publications

- Iyengar MS, Merchant N, Ernst K, Rains S, **Arora M**, Ngaybe MGB^o, Gonzalez M^o. Resilience Informatics for Public Health. *Stud Health Technol Inform.* 2024 Jan 25;310:1276-1280. doi: 10.3233/SHTI231170. PMID: 38270020.
- Mayer B, **Arora M**, Helm S, Barnett M. Essential but Ill-Prepared: How the COVID-19 Pandemic Affects the Mental Health of the Grocery Store Workforce. *Public Health Rep.* 2022 Jan-Feb;137(1):120-127. doi: 10.1177/00333549211045817. Epub 2021 Sep 15. PMID: 34524904; PMCID: PMC8721764.
- Pogreba-Brown K, Boyd K, Schaefer K, Austhof E, Armstrong A, Owusu-Domney A, Villa-Zapata L, **Arora M**, McClelland JD, Hoffman S. Complications Associated with Foodborne Listeriosis: A Scoping Review. *Foodborne Pathog Dis.* 2022 Nov;19(11):725-743. doi: 10.1089/fpd.2022.0012. PMID: 36367547.
- Mayer B, Helm S, Heinz E, Barnett M, **Arora M**. Doubt in store: vaccine hesitancy among grocery workers during the COVID-19 pandemic. *J Behav Med.* 2022 Apr 30:1–12. doi: 10.1007/s10865-021-00276-0. Epub ahead of print. PMID: 35488001; PMCID: PMC9054640.
- Keith L, Iroz-Elardo N, Austof E, Sami I^o, **Arora M**. Extreme Heat at Outdoor COVID-19 Vaccination Brian Mayer; Sabrina Helm; Erin Heinz; Mona Arora; Melissa Barnett Sites. *Journal of Climate Change and Health.* 2021 August 28. DOI: 10.1016/j.joclim.2021.100043.
- **Arora M**, Granillo B, Zepeda TK, Burgess JL. 2018. Experiential Adult Learning: A Pathway to Enhancing Medical Countermeasures Capabilities. *American Journal of Public Health.* November 108(S5), S378-S380. DOI: 10.2105/AJPH.2018.304703

- El Vilaly, AE, **Arora M**, Butterworth MK, El Vilaly MA, Jarnagin W, Comrie AC. 2013. Climate, environment, and disease: The case of Rift Valley Fever. *Progress in Physical Geography*. Volume 37, Issue 2. DOI: 10.1177/0309133313478315
- Ernst KC, **Arora M**, Munga S. 2012. Ownership and disuse of bed nets in Kenyan children under five years of age. *Malaria Reports*. Volume 2:e1., DOI:10.4081/malaria.2012.e1.
- Sarkar A, Panigrahi SK, **Anand M**. 2007. *Vector Borne Disease in India - Environmental Health and Policy Perspective*. Manak Publications.

Non-peer reviewed Publications

- [Arizona Public Health Workforce: Recruitment and Retention](#). Report (September 2023)
- [Public Health System Capacity in Arizona: Learning from the COVID-19 Pandemic Response](#). Report (August 2023)
- [Pathways to Improve Arizona's Public Benefits Enrollment Report](#). Arizona Department of Health Services. (September 2022)
- Grocery workers suffer the mental health effects of customer hostility and lack of safety in their workplace. *The Conversation*. (November 2021)
- University of Arizona Has Distributed Hundreds of Thousands of COVID-19 Vaccines *United Educators*. (May 2021)
- Issue Paper for CEPH inclusion of Climate into Workforce Training. (March 2021)
- Lancet Countdown on Health and Climate Change: Policy Brief for the United States of America. *Reviewer*. (December 2020)
- Heat Response Plans: Summary of Evidence and Strategies for Collaboration and Implementation. Climate and Health Technical Report Series. *Reviewer*. (July 2019)
- NACCHO Fact Sheet Essential Actions for Climate Resilience in Local Health Departments. *Contributor*. (June 2018)

Reviewer

- Lancet Countdown on Health and Climate Change Policy Brief for the United States of America. October [2020](#), [2021](#), [2022](#), [2023](#).

Conference & Invited Presentations

- COP28 United Nations Climate Change Conference. UArizona Delegate. (December 2023)
- [Resilience Informatics Workshop](#). (November 2023)
- 2023 Arizona Heat Planning Summit. *Invited panel presenter*. (October 2023)
- Arizona Health Equity Conference. Arizona Librarians Fostering Resilient Rural Communities *Presentation*. (September 2023).
- 49th Annual Arizona Rural Health Conference. Arizona Librarians Fostering Resilient Rural Communities. *Presentation*. (June 2023).
- National Rural Health Association Health Equity Conference. Collaborative Community Engagement to Address Substance Use and Opioid Use Disorders in Rural Arizona *Poster*. (May 23).
- Arizona Public Health Association- 2023 Annual Conference. COVID Lessons Learned for Climate-driven Disaster Preparedness. *Presenter*. (February 2023)
- Arizona Public Health Association Conference. [COVID Lessons Learned for Climate-driven Disaster Preparedness](#). *Presenter* (February 2023).
- 103rd Annual American Meteorological Society Meeting. [Joint Panel Discussion JPD8- Panel on Climate, Environment, Health, and Early Warning](#). *Invited Presenter*. (January 2023)

- APHA 2022 Annual Meeting and Expo. [Academic-LHD Partnerships: Lessons Learned & Recommendations for Enhancing Preparedness Post COVID](#). *Presenter* (November 2022)
- APHA 2022 Annual Meeting and Expo. [Strategies & Perspectives: Integrating Climate Change Into Graduate Public Health Courses](#). *Presenter*. (November 2022)
- APHA 2022 Annual Meeting and Expo. [Board 2 - The Covid-19 pandemic and rural public health system capacity in Arizona](#). *Poster*. (November 2022)
- [France-Arizona Meeting on Health & Environment](#). *Presentation*. (November 2022)
- Arizona Library Association Annual Conference 2022. [Exploring Partnership Opportunities between the UArizona Center for Rural Health and Libraries](#). *Presenter*. (October 2022)
- Arizona Center for Rural Health and Arizona State Office of Rural Health Webinar Series. [Mobilizing Partnerships to Advancing Health Equity and Addressing Disparities \(AHEAD\) in Arizona](#). *Presenter*. (January 2022)
- Supporting an educational system that addresses climate change, health, and equity. American Public Health Association Conference. *Invited Presenter*. (October 2021)
- Mental Health Impacts of COVID-19 on Grocery Store Workers in Arizona: Results from Online Surveys. American Public Health Association Conference. *Presenter*. (October 2021)
- Urban Heat Resilience Webinar. UArizona Wonder At Home Series. *Panelist*. (July 2021)
- EcoAmerica Ambassador Training. *Invited panelist*. (June 2021)
- Phenology: What's Public Health got to do with it? *American Geophysical Union*. (December 2020)
- Climate change preparedness: Where does public health currently stand? American Public Health Association Conference. *Presenter*. (November 2020)
- Climate change preparedness: Where does public health education currently stand? American Public Health Association Conference. *Presenter*. (November 2020)
- Preparing the next generation of the public health workforce for addressing the health impacts of climate change: A framework for schools and programs of public health. American Public Health Conference. *Presenter*. (November 2019)
- CDC Health Equity Office Webinar: Developing Your COVID-19 Reopening Plan: A Webinar for Minority Serving IHEs. *Invited speaker*. (October 2020)
- MEZCOPH Public Health Poster Forum. Climate change and Human Health. *Panelist*. (March 2020)
- Preparing the next generation of the public health workforce for addressing the health impacts of climate change: A framework for schools and programs of public health. American Public Health Conference. *Presenter*. (November 2019)
- Community Food Bank Climate Change Impacts & Planning. *Invited speaker*. (October 2019)
- NACCHO Webinar: Integrating Climate Change and Public Health Preparedness. *Panelist*. (May 2013)
- CDC PERLC Webinar: Designing and Delivering Relevant Public Health Preparedness Training: Adapting Tier I Training for State and Local Health Departments. *Panelist*. (February 2013)

Media & Podcasts

- [Rooted in Change: the Environmental Health and Climate Workgroup Explores Climate Action Policies](#). Blogpost (January 2023)
- [Faculty Collaborate in Climate Change Events to Prepare for Health Risks](#). *MEZCOPH Website*. (November 2022)

- [COVID, Climate Change, & Preparedness: Lessons Learned.](#) *MEZCOPH Website.* (October 2022)
- [College Researchers Contribute to Annual Lancet Countdown Health and Climate Report.](#) *MEZCOPH Website.* (October 2022)
- [Dr. Mona Arora Named to National Public Health Workgroup.](#) *Health Sciences Connect.* (August 2022)
- [Students Use Art to Grapple With Climate Change Challenges.](#) *MEZCOPH Website.* (August 2022)
- Reframing Public Health Crisis Resilience. *Health Sciences Connect.* (October 2021)
- COVID-19 Vaccine Distribution | The University of Arizona POD. *UArizona Featured Video.* (March 2021)
- Addressing Wicked Problems in Public Health: Climate Change (Episode 18). Western Region Public Health Center. *Podcast series.* (July 2020)
- University of Arizona Has Distributed Hundreds of Thousands of COVID-19 Vaccines. United Educators Profiles in Management Risk. *Interview Article.* (May 2021)
- NACCHO Blog: Building Public Health Capacity for Climate Action. *Invited author.* (September 2019)

Works in Progress

- Paper submission: Resilience Informatics for Public Health. *Journal of Medical Internet Research*
- Paper submission: Promoting Equitable Access to COVID-19 Vaccination in Rural and Underserved Arizona. *American Journal of Public Health*
- Paper submission: Retail Businesses' Commitment to Public Health – Lessons from the COVID-19 Pandemic. *Business and Society*