

**2021 CLIMATE, HEALTH,
& EQUITY SUMMIT***Mobilizing Epidemiologists toward Action***May 3-4, 2021****Final Program Packet****Table of Contents**

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Event Overview

The Council of State and Territorial Epidemiologists (CSTE), in collaboration with the Centers for Disease Control and Prevention's (CDC) Climate and Health Program, will virtually convene the **2021 Climate, Health, and Equity Summit** on **May 3-4, 2021**. The event will be held on CSTE's Ring Central platform during the following dates and times:

- **Monday, May 3, 2021** – 1:00-5:00 p.m. EDT || 10:00 a.m. – 2:00 p.m. PDT
- **Tuesday, May 4, 2021** – 1:00-5:00 p.m. EDT || 10:00 a.m. – 2:00 p.m. PDT

CSTE has partnered with Urban Health Solutions, LLC to provide an engaging and interactive virtual experience for attendees to hear from both the federal and state, tribal, local, and territorial (STLT) levels to empower epidemiologists at STLT health departments. This two-day virtual Summit will be an opportunity for colleagues to share new information and data, communicate ways they are working with their agencies to prioritize vulnerable populations, and identify opportunities to work together to advance action on climate, health, and equity.

Summit Theme, Goal, and Objectives

2021 Climate, Health, Equity Summit Theme:

The 2021 CSTE Climate, Health & Equity Summit was developed surrounding the theme of ***Mobilizing Epidemiologists toward Action***.

2021 Climate, Health, Equity Summit Goal: D-19 & Climate:

The Summit aims to empower epidemiologists at STLT health departments to identify their role and utilize their skills in strategically addressing climate, health, and equity.

2021 Climate, Health, Equity Summit Learning Objectives:

By the end of the 2021 CSTE Climate, Health, & Equity Summit, attendees will be able to:

1. Communicate new trends and models for tracking data and indicators related to climate, health, and equity;
2. Understand how to prioritize health and equity within climate change action; and
3. Identify their scope and role in advancing positive climate, health, and equity within their agencies.

RingCentral Meeting Information

The 2021 CSTE Climate, Health, and Equity Summit is being held **virtually** via **RingCentral Meetings**. Instructions and tips on how to join are included below.

Join Here: <https://meetings.ringcentral.com/j/1486815773>

Note: This link will be used for Day I and Day II of the Summit.

Information for Joining Event Sessions

Joining the Meeting:

- The web link will take you to a landing page that should prompt a download of the RingCentral Meetings software. If you are unable to install the software due to security protocols, you can still join the meeting using a web browser – do so by clicking “join from your browser” on the same page.
 - *Note: We have found issues when using Internet Explorer – we highly recommend joining via Chrome, Edge, Safari, or Firefox instead.*
 - *Note: If you join RingCentral using the web browser, you may be unable to participate and view any launched polls.*

Adding Your Jurisdiction/Organization Name:

- Once you have joined, we ask that attendees rename themselves to include their jurisdiction/organization. Please see the following instructions on how to edit your webinar username.
 - Click the **“Participant”** button to open the Participant panel, hover your mouse over your name to reveal the **“Rename”** button. Click this button.
 - A pop-up window will appear. Enter your name and jurisdiction/organization in parentheses (e.g., “Alyaa Altabbaa (CSTE)”).
 - Click the **“OK”** button to save.

Summit Engagement:

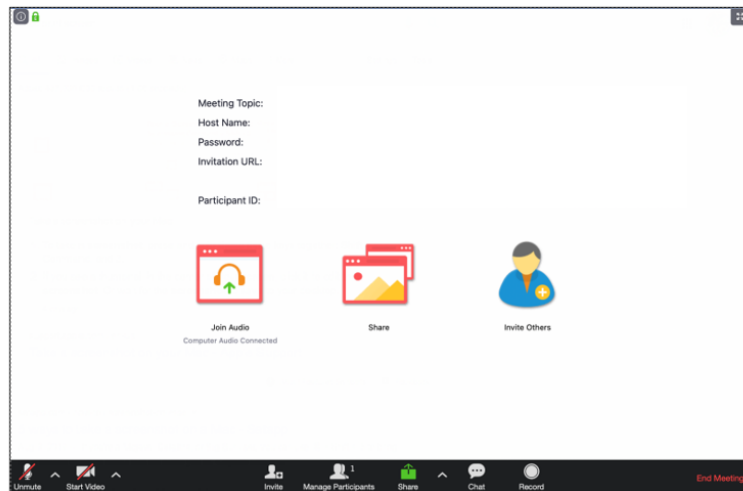
- All attendees will be muted upon entry.
- If you join through the RingCentral Meetings platform, you may unmute by clicking the **“Unmute”** button and clicking.
- If you join by phone-only, you may unmute by pressing ***6** (star + the number six).
- To avoid background noise, please be sure to mute your line when not speaking.
- Use the chat function to ask questions or share resources.
- We encourage all attendees to turn on their webcams during the event for greater engagement.

Recording:

- Note that all sessions are being recorded for later viewing purposes.

RingCentral Functions:

Make sure your line is muted (both computer and phone)



↑ Share your video while speaking

↑ Use the Chat Box for questions or comments
**send to a host, not speaker*

Technical Assistance:

- If you encounter issues when attempting to join the Summit, please review the [system requirements](#) and the RingCentral [troubleshooting webpage](#). You may also email CSTE staff lead Alyaa Altabbaa (aaltabbaa@cste.org).
- *Note: We have found issues when using Internet Explorer – we highly recommend joining via Chrome, Edge, Safari, or Firefox instead.*

Day I Agenda – Monday, May 3, 2021

1:00 PM EDT

Daily Open, Meeting Logistics, and Overview

Speakers:

- **Anamarie Ferreira de Melo, MPH** – Urban Health Solutions, Summit Facilitator
- **Anthony Olivieri, MURP** – Urban Health Solutions, Summit Facilitator

1:15 PM EDT

Welcoming Remarks

Speakers:

- **Janet Hamilton, MPH** – CSTE, Executive Director
- **Jason Vargo, PhD** – California Department of Health, CSTE Climate, Health, & Equity Subcommittee Co-Chair

1:30 PM EDT

Session I: COVID-19 & Climate Change

Presenters:

- **Ali Hamade, PhD** – Oregon Health Authority, Deputy State Epidemiologist
- **Matt Roach, MPH** – Arizona Department of Health Services, Climate and Health Program Manager

2:30 PM EDT

Session II: COVID-19 & Air Quality

Presenter:

- **Kevin Berg, PhD** – Colorado Department of Public Health and Environment, GIS Epidemiologist

3:30 PM EDT

15-Minute Break

3:45 PM EDT

Session III: Advancing Climate, Health, & Equity Through Pilot Projects

Presenters:

- **Meredith Barrett, PhD** – ResMed/Propeller Health, Vice President of Population Health Research
- **Julie Fox, PhD** – Washington Department of Health, Air Quality Epidemiologist

4:30 PM EDT

Session IV: Applied Epidemiologists Propel to Action

Speakers:

- **Anamarie Ferreira de Melo, MPH** – Urban Health Solutions, Summit Facilitator
- **Anthony Olivieri, MURP** – Urban Health Solutions, Summit Facilitator
- **Alyaa Altabbaa, MPH** – CSTE, 2021 Climate, Health, and Equity Summit Staff Lead

5:00 PM EDT

Adjourn + Social Hour

Day II Agenda – Tuesday, May 4, 2021

1:00 PM EDT

Daily Open, Meeting Logistics, and Overview

Speakers:

- **Anthony Olivieri, MURP** – Urban Health Solutions, Summit Facilitator

1:05 PM EDT

Welcoming Remarks

Speakers:

- **Patrick Breyse, PhD** – CDC, National Center for Environmental Health, Director
- **Erik Svendsen, PhD** – CDC, National Center for Environmental Health, Division of Environmental Health Science and Practice, Director

1:30 PM EDT

Session I: Wildfire and Smoke Syndromic Surveillance

Presenters:

- **Kali Turner, MPH** – Washington State Department of Health, Epidemiologist
- **Hayleigh McCall, MPH** – CSTE, Program Analyst III

2:30 PM EDT

Session II: Occupational Health & Climate

Presenters:

- **Eric Berg, MPH** – California Division of Occupational Safety and Health, Deputy Chief of Health
- **Ira Cuello-Martinez, BA** – Pineros Y Campesinos Unidos del Noroeste, Climate Policy Associate
- **Brenda Jacklitsch, PhD** – CDC, National Institute for Occupational Safety and Health, Research Health Scientist
- **Andrea Wilkinson, MS** – CDC, National Institute for Occupational Safety and Health, Research Health Scientist

3:30 PM EDT

15-Minute Break

3:45 PM EDT

Session III: Climate Health Across the Lifespan

Presenters:

- **Claire L. Barnett, MBA** – Healthy Schools Network, Executive Director
- **Aaron Bernstein, MD** – Harvard T.H. Chan School of Public Health, Center for Climate, Health and the Global Environment, Interim Director
- **Adriana Perez, PhD** – University of Pennsylvania School of Nursing, Leonard Davis Institute of Health Economics, Assistant Professor of Nursing

4:55 PM EDT

Closing Remarks

Speaker:

- **Asante' Hilts, DrPH** – Georgia Department of Public Health, CSTE Climate, Health, & Equity Subcommittee Co-Chair

5:00 PM EDT

Adjourn

Day I Session Materials - Monday, May 3, 2021

Daily Open, Meeting Logistics, and Overview

[Recording](#) | [Slides](#)

Speakers:

- **Anamarie Ferreira de Melo, MPH** – Urban Health Solutions, Summit Facilitator
- **Anthony Olivieri, MURP** – Urban Health Solutions, Summit Facilitator

Welcoming Remarks

[Recording](#) | [Slides](#)

Speakers:

- **Janet Hamilton, MPH** – CSTE, Executive Director
- **Jason Vargo, PhD** – California Department of Health, CSTE Climate, Health, & Equity Subcommittee Co-Chair

Session I: COVID-19 & Climate Change

[Recording](#) | [Slides](#) |

Description:

This session will include presentations and a discussion on lessons learned during COVID-19 to address climate, health, and equity from the federal and state perspectives. Panelists will share common and conflicting considerations for the COVID-19 response and natural disaster responses. Attendees will hear about this intersection as it relates to one of the worst wildfire events in recent history and the application of the CDC's Building Resilience Against Climate Effects Framework (BRACE) model on extreme weather events.

Presenters:

- **Ali Hamade, PhD** – Oregon Health Authority, Deputy State Epidemiologist
- **Matt Roach, MPH** – Arizona Department of Health Services, Climate and Health Program Manager

Additional Resources:

- **Notes from the Field: Amphetamine Use Among Workers with Severe Hyperthermia — Eight States, 2010–2019:** <https://www.cdc.gov/mmwr/volumes/69/wr/mm6930a5.htm>
- **CDC Natural Disasters, Severe Weather, and COVID-19:** https://www.cdc.gov/disasters/covid-19/disasters_severe_weather_and_covid-19.html
- **CDC Interim Guidance for General Population Disaster Shelters During the COVID-19 Pandemic:** <https://www.cdc.gov/coronavirus/2019-ncov/php/eh-practitioners/general-population-disaster-shelters.html>
- **CDC Hurricane Key Messages: COVID-19 Annex:** https://www.cdc.gov/disasters/covid-19/hurricane_key_messages_covid-19_annex.html
- **CDC Environmental Health Assessment for Disaster Shelters during COVID-19:** <https://emergency.cdc.gov/shelterassessment/>

- **CDC Tips on Going to a Public Disaster Shelter During the COVID-19 Pandemic:**
<https://www.cdc.gov/disasters/hurricanes/covid-19/public-disaster-shelter-during-covid.html>

Session II: COVID-19 & Air Quality

[Recording](#) | [Slides](#)

Description:

Previous nationwide studies have reported links between long-term PM2.5 concentrations and COVID-19 infection and mortality rates. This session will include a presentation on collecting and analyzing COVID-19 and air-quality outcome data to inform climate, health, and equity prioritization and decision-making processes.

Presenter:

- **Kevin Berg, PhD** – Colorado Department of Public Health and Environment, GIS Epidemiologist

Additional Resources:

- **Long-term air pollution and other risk factors associated with COVID-19 at the census-tract-level in Colorado (Pre-publication Manuscript):**
<https://www.medrxiv.org/content/10.1101/2021.02.19.21252019v1>
- **Supplemental material:**
<https://www.medrxiv.org/content/10.1101/2021.02.19.21252019v1.supplementary-material>

Session III: Advancing Climate, Health, and Equity Through Pilot Projects

[Recording](#) | [Slides](#)

Description:

This session will include grantee presentations on CDC/CSTE funded pilot projects that used technology to address climate, health, and equity. Attendees will learn about the findings and implications for populations with asthma and COPD and the utilization of low-cost air sensors in schools to inform wildfire smoke exposure decisions.

Presenters:

- **Meredith Barrett, PhD** – ResMed/Propeller Health, Vice President of Population Health Research
- **Julie Fox, PhD** – Washington Department of Health, Air Quality Epidemiologist

Session IV: Applied Epidemiologist Propel to Action

[Recording](#) | [Slides](#) | [Additional Resources](#)

Description: This session will include an interactive activity that aims to empower epidemiologists toward climate health action and discuss the future of climate health.

Speakers:

- **Anamarie Ferreira de Melo, MPH** – Urban Health Solutions, Summit Facilitator
- **Anthony Olivieri, MURP** – Urban Health Solutions, Summit Facilitator

Day II Session Materials - Tuesday, May 4, 2021

Daily Open, Meeting Logistics, and Overview

[Recording](#) | [Slides](#)

Speaker:

- **Anthony Olivieri, MURP** – Urban Health Solutions, Summit Facilitator

Welcoming Remarks

[Recording](#) | [Slides](#)

Speakers:

- **Patrick Breyse, PhD** – CDC, National Center for Environmental Health, Director
- **Erik Svendsen, PhD** – CDC, Division of Environmental Health Science and Practice, Director

Session I: Wildfire & Smoke Syndromic Surveillance

[Recording](#) | [Slides](#)

Description:

Syndromic surveillance is an effective public health tool for responding to environmental threats, due to the near real-time data acquisition. This session will include a presentation on two newly developed queries for wildfire and smoke, a validation example from Washington State, and an overview of the National Syndromic Surveillance Program Community of Practice.

Presenters:

- **Hayleigh McCall, MPH** – CSTE, Program Analyst III
- **Kali Turner, MPH** – Washington State Department of Health, Epidemiologist

Additional Resources:

- **National Syndromic Surveillance Program (NSSP) Knowledge Repository:**
<https://knowledgerepository.syndromicsurveillance.org/>
- **National Syndromic Surveillance Program (NSSP) Community of Practice (CoP) Website:**
<https://nsspcommunityofpractice.org/>
- **Contact to join CoP or obtain additional information:** syndromic@cste.org

Session II: Occupational Health & Climate

[Recording](#) | [Slides](#)

Session Description:

Climate change may increase the occurrence and severity of some existing occupational hazards and lead to new and unanticipated risks. Some workers also encounter unique hazards related to climate change, such as firefighters' exposure to wildfires. How do frontline workers ensure equity in protecting themselves? This session will include a panel discussion on the intersection of occupational health and climate from the federal, state, and employee perspective.

Presenters:

- **Eric Berg, MPH** – California Division of Occupational Safety and Health, Deputy Chief of Health
- **Ira Cuello-Martinez, BA** – Pineros Y Campesinos Unidos del Noroeste, Climate Policy Associate
- **Brenda Jacklitsch, PhD** – CDC, National Centers for Disease Control and Prevention, Research Health Scientist
- **Andrea Wilkinson, MS** – CDC, National Centers for Disease Control and Prevention, Research Health Scientist

Additional Resources

- **NIOSH Heat Stress:** <https://www.cdc.gov/niosh/topics/heatstress/default.html>
- **NIOSH Occupational Health Equity Program:** <https://www.cdc.gov/niosh/programs/ohe/default.html>
- **Advancing the framework for considering the effects of climate change on worker safety and health:** <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5017900/>
- **Climate Change and Occupational Safety and Health: Establishing a Preliminary Framework:** <https://www.tandfonline.com/doi/full/10.1080/15459620903066008>
- **CDC Impact of Climate on Workers:** <https://www.cdc.gov/niosh/topics/climate/how.html>

Session III: Climate Health Across the Lifespan

[Recording](#) | [Slides](#)

Description:

Climate change carries the potential to alter the epidemiology of most diseases and poses unique risks to infant, child, and adult health. This session includes presentations and discussions on emerging risks across the lifespan and suggestions for epidemiologists to conduct better surveillance, preparedness, and participation in consensus building and policy development.

Presenters:

- **Claire L. Barnett, MBA** – Healthy Schools Network, Executive Director
- **Aaron Bernstein, MD** – Harvard T.H. Chan School of Public Health, Center for Climate, Health and the Global Environment, (Harvard Chan C-CHANGE), Interim Director
- **Adriana Perez, PhD** – University of Pennsylvania School of Nursing, Leonard Davis Institute of Health Economics, Assistant Professor of Nursing & Senior Fellow

Additional Resources

- **Healthy Schools Network (HSN):** www.HealthySchools.org
- **HSN Indicator report Towards Healthy Schools: Reducing Risks to Children:** <http://www.healthyschools.org/data/files/TowardsHealthySchools-Risks.pdf>



- **National Healthy Schools Summit Report on COVID, Climate, Children, and Schools:**
https://drive.google.com/file/d/1f2yyQ4foTNxyiEwTF_E3Sk_BTfTOGIl/view
- **Pandemic v Schools, 55 pp playbook. National Call to Action for states to assist schools with adopting Infection Prevention and Control Plans, July 2020:**
<http://healthyschools.org/data/files/PandemicvSchools.pdf>

Closing Remarks

[Recording](#) | [Slides](#)

Speaker:

- **Asante' Hiltz, DrPH** – Georgia Department of Public Health, CSTE Climate, Health, and Equity Subcommittee Co-Chair

Presenter Biographies

Day I – Monday, May 3, 2021

Session I: COVID-19 & Climate Change

Ali Hamade, PhD

Oregon Health Authority, Public Health Division, Deputy State Epidemiologist

Ali Hamade serves as the Deputy State Epidemiologist at the Oregon Health Authority Public Health Division. His work focuses on several statewide public health topics related to environmental exposures and health, climate change, and data strategy. He is a senior health advisor for both the COVID-19 response and recovery effort and wildfire events.

Matthew Roach, MPH

Arizona Department of Health Services, Climate and Health Program Manager

Matthew Roach is an epidemiology program manager with the Arizona Department of Health Services. Mr. Roach oversees several CDC grant initiatives, including the Climate and Health Program, Environmental Public Health Tracking Program, and Environmental Health Capacity Program. Since 2012 he has led climate and health initiatives in Arizona, including developing Arizona's first Climate and Health Adaption Plan and improving heat-related illness prevention. He has an MPH in Epidemiology from the University of South Florida.

Session II: COVID-19 & Air Quality

Kevin Berg, PhD

Colorado Department of Public Health & Environment, GIS Epidemiologist

Kevin Berg is a statistical analyst and co-program manager for the Colorado Environmental Public Health Tracking program. He holds a master's degree in Geography and Geographic Information Science from the University of Illinois at Urbana-Champaign.

Session III: Advancing Climate, Health, & Equity Through Pilot Projects

Meredith Barret, PhD

ResMed/Propeller Health, Vice President of Population Health Research

Meredith Barrett is the Vice President of Population Health Research at ResMed, a global digital health company focused on improving outcomes in respiratory disease and sleep. She spent over six years as VP of Research at Propeller Health, which was acquired by ResMed in 2019, developing its clinical and population health research efforts. She leverages data from digital devices to generate insights about how social and environmental factors, such as air pollution and the built environment, influence spatiotemporal patterns of respiratory disease. She received her PhD from Duke University.

Julie Fox, PhD

Washington Department of Health, Air Quality Epidemiologist

Julie Fox is the ambient air epidemiologist at the Washington State Department of Health. Dr. Fox investigates health impacts and provides health recommendations for outdoor air pollutants, which increasingly centers on wildfire smoke. She obtained a master's and doctoral degree from Johns Hopkins Bloomberg School of Public Health. She was a postdoctoral fellow in the Department of Environmental & Occupational Health Sciences at the University of Washington.

Day 2 – Tuesday, May 4, 2021

Session I: Wildfire and Smoke Syndromic Surveillance

Hayleigh McCall, MPH

Council of State and Territorial Epidemiologists (CSTE), Program Analyst III

Hayleigh McCall is a Program Analyst at the Council of State and Territorial Epidemiologists (CSTE) – she leads many of CSTE's syndromic surveillance (SyS) projects, including facilitation of the National Syndromic Surveillance Program (NSSP) Community of Practice (CoP) and coordination of SyS policy discussions. Before her current role, Ms. McCall supported CSTE's environmental health, disaster epidemiology, climate and health, and health disparities activities.

Kali Turner, MPH

Washington State Department of Health, Epidemiologist

Kali Turner is a Washington State Department of Health Epidemiologist on the syndromic surveillance team. She splits her time between onboarding and validating new facilities to their syndromic surveillance interface and on various COVID-related activities. Ms. Turner conducted surveillance for wildfire-related health conditions in Washington during the 2020 wildfire season and will do so again this season.

Session II: Occupational Health & Climate

Eric Berg, MPH

California Division of Occupational Safety and Health (Cal/OSHA), Deputy Chief of Health

Eric Berg leads the Cal/OSHA Research and Standards Unit. The Research and Standards Unit develops occupational health regulations. These regulations protect workers from exposures to harmful substances, harmful physical agents, and infectious diseases.

Ira Cuello-Martinez, BA

Pineros y Campesinos Unidos del Noroeste (PCUN), Oregon's Farmworker Union, Climate Policy Associate

Ira Cuello-Martinez is a climate policy associate with PCUN and works at the intersection of farmworker justice, immigrant rights, and environmental justice. Previously, Ira worked on Oregon State Representative Teresa Alonso Leon's reelection campaign as her Field Director. Additionally, he served as a Community Organizer at Voz Workers' Rights Education Project in Portland, OR. Ira earned his Bachelor's in Political Science from Willamette University.

Brenda Jacklitsch, PhD

Centers for Disease Control and Prevention, National Institute for Occupational Safety & Health (NIOSH), Research Health Scientist

Dr. Brenda Jacklitsch is a research health scientist and serves as Coordinator for the Small Business Assistance Program within NIOSH. She recently led the newly formed NIOSH Climate Change Workgroup and is a NIOSH representative on the CDC Climate and Health Task Force. In addition, she is a subject matter expert on occupational heat stress and other outdoor worker hazards. Dr. Jacklitsch has a PhD in Health Education from the University of Cincinnati, and an MS in Epidemiology, and a BS in Biomedical Science from Texas A&M University.

Andrea Wilkinson, MS

Centers for Disease Control and Prevention, National Institute for Occupational Safety & Health (NIOSH), Research Health Scientist

Andrea Wilkinson, MS LAT/ATC, is a Health Scientist for the National Institute of Occupational Safety and Health (NIOSH), specializing in work with First Responders. Currently, Ms. Wilkinson is working on the National Firefighter

Registry to better understand cancer and exposures in firefighters better. Her work also focuses on investigating firefighter PPE efficacy as it relates to physiology and carcinogens. Outside of NIOSH, Andrea has extensive experience in sports medicine as well as cardiac rehabilitation.

Session III: Climate Health Across the Lifespan

Claire Barnett, PhD

Healthy Schools Network, Executive Director

Claire L. Barnett is the Executive Director of Healthy Schools Network, which advocates for children's environmental health in schools by pushing a consensus agenda, fostering environmental health coalitions, and landing policy reforms. She previously reported for TIME Magazine in NYC, administered rural NY health services, and assisted Adirondack communities with sustainable development. She pivoted to children's issues after her child's exposures at school. She has an MBA from Rensselaer Polytechnic Institute and her BA from Mount Holyoke College.

Aaron Bernstein, MD

Harvard T.H. Chan School of Public Health (Harvard Chan C-CHANGE), Center for Climate, Health and the Global Environment, Interim Director

Aaron Bernstein is the Interim Director of The Center for Climate, Health, and the Global Environment at the Harvard T.H. Chan School of Public Health (Harvard Chan C-CHANGE), a pediatrician at Boston Children's Hospital, and an Assistant Professor of Pediatrics at Harvard Medical School. Dr. Bernstein focuses on the health impacts of the climate crisis on children's health and advancing solutions to address its causes to improve children's health and well-being around the world.

Adriana Perez, PhD, ANP-BC, FAAN

Leonard Davis Institute of Health Economics University of Pennsylvania School of Nursing, Assistant Professor of Nursing & Senior Fellow

Adriana Perez is an Assistant Professor and Senior Fellow at the Leonard Davis Institute of Health Economics at the University of Pennsylvania, School of Nursing. Her research, funded by the National Institute on Aging, is focused on the influence of community, multi-level factors on physical activity, cognitive health, cardiovascular health, and sleep among older Latinos with Alzheimer's Disease. She is a board-certified Adult-Nurse Practitioner, providing community-based long-term care for diverse/frail elders in North Philadelphia. Dr. Perez served as a Congressional Fellow supported by Atlantic Philanthropies/Centers for Disease Control and Prevention to work on environmental policies that promote healthy aging.