



# CLIMATE ACTION AT A CROSSROADS

2024-25 BIENNIAL REPORT

Yale SCHOOL OF PUBLIC HEALTH  
*Center on Climate Change and Health*

# *Protecting health in a warming world*



**PREPARED BY**

Jennifer Wang  
Alixandra Rachman

**Yale SCHOOL OF PUBLIC HEALTH**  
*Center on Climate Change and Health*

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# A MESSAGE FROM OUR FACULTY DIRECTOR

We are living through a pivotal moment for climate and health. In 2024, global average temperatures surpassed 1.5°C above pre-industrial levels for the first time. The consequences are no longer projections. They are measurable, and they are falling hardest on those least able to bear them.

This report captures YCCCCH's progress in 2024–2025. Our faculty, students, postdocs, and partners published consequential research on the health toll of extreme heat, air pollution, wildfire smoke, floods, and compound climate events. We launched new tools to make that evidence accessible, from the Health Attribution Library to the XToll extreme weather toll tracker, and we continued to train the next generation of leaders: 52 MPH graduates with a concentration in climate change and health, and nearly 1,000 cumulative completers of our online certificate program from 60 countries around the world.

The Center grew in meaningful ways. We welcomed new faculty program leads in urban health, mental health, and attribution science. We hosted the inaugural Yale Forum on Climate Change and Health and the first ever, in-person Connecticut Symposium on Climate Change and Health. Our joint report with the Resilient Cities Network found that proven urban interventions could save up to 725,000 lives annually and cut \$70 billion in health care costs. The evidence for action has never been stronger.

This report also marks a moment of transition and gratitude. After a decade of visionary leadership, Dr. Robert Dubrow – YCCCCH's founding Faculty Director – has retired. Rob built this center from a spark of conviction: that protecting human health is the most powerful yet under-tapped force for climate action. He set a standard of scientific rigor and moral purpose that will guide us for years to come. We owe him an enormous debt of gratitude.

It is both humbling and energizing to step into the Faculty Director role at this moment. Climate and public health are at a crossroads. The science has never been more compelling. The policy environment has never been more contested. That tension is exactly why the work of this center matters, and why the community around it – researchers, educators, clinicians, policymakers, students, and partners – is so essential.

We hope this report reflects the depth of that community's commitment, and that you are as motivated as we are to protect human health from the adverse impacts of climate change. We welcome your feedback, and we look forward to your continued collaboration in the critical decade ahead.



*Kai Chen*

Dr. Kai Chen, *Faculty Director, Associate Professor of Epidemiology*  
*Yale Center on Climate Change and Health, Yale School of Public Health*

## NEW HORIZONS EMERGING FROM TWO PIVOTAL YEARS

Between 2024 and 2025, the Yale Center on Climate Change and Health (YCCCCH) solidified its position as a leader in climate-health research, education, and policy translation. This progress comes at a pivotal moment. Amidst geopolitical headwinds, climate change remains one of the greatest public health challenges—and opportunities—of the century. As global temperatures surpassed 1.5°C above pre-industrial levels in 2024, YCCCCH's research revealed the alarming consequences for human health, along with opportunities for prevention and health improvement:

- A 53% rise in heat-related mortality in the contiguous U.S. from the periods 2000-2009 to 2010-2020
- 22,376 excess U.S. deaths attributable to flooding between 2001-2020
- Heat exposure was associated with increased risk of mortality from drug overdoses
- Significant cardiovascular and neurological health benefits from stronger air quality standards
- Policy gaps and opportunities for protecting low-income households, farmworkers, and other populations at risk

At the same time, the Center continued to strengthen its core pillars of research, education, and policy and practice in 2024-2025:

- Core faculty published 78 new papers on climate change and health in peer-reviewed journals
- Trained new leaders at Yale and around the world, with 22 graduates of its MPH concentration (52 cumulative) and 251 completers (nearly 1,000 cumulative) of its online certificate program for working professionals
- Hosted the largest full-day annual climate and health event at Climate Week NYC to advance low-carbon, climate-resilient health systems
- Expanded local and global partnerships, including with the Connecticut local and state health departments, CDC, community-based organizations, and the Resilient Cities Network
- Launched innovative data tools, such as mapping the economic toll of extreme weather
- Supported junior faculty research projects on 1) ambient temperature exposure and childhood epilepsy and 2) building a climate-responsive integrated model for malaria surveillance and interventions in Chad
- Convened scholars and practitioners at dynamic seminars, symposia, and workshops highlighting the latest research and policy opportunities

Together, these achievements underscore YCCCCH's vital role in advancing evidence-based solutions at the intersection of climate and health. As climate risks intensify, the Center remains committed to translating rigorous research into action that protects communities, strengthens health systems, and advances health equity worldwide.

## VISION

A world in which the health benefits of climate action are fully realized for all people.

## MISSION

To promote health and protect all people, especially vulnerable populations, in climate change mitigation and adaptation efforts through high-impact research, education, policy, and practice.

## VALUES

1

### **INNOVATION**

We commit to leadership in the field of climate change and health through innovative thinking, methodologies, partnerships, and applications.

2

### **COLLABORATION**

We work to build respectful and sustainable collaborations with academic, government, civil society, and community partners.

3

### **JUSTICE**

We integrate health equity and social justice throughout our work, recognizing and addressing the disparate health impacts of climate change.

4

### **COMMUNITY**

We aim to nurture a diverse, vibrant, and welcoming culture for staff, faculty, students, alumni, and partners.



## OUR TEAM



**Michelle L. Bell, PhD**

Core Faculty at Large; Mary E. Pinchot Professor at the School of the Environment and Professor of Environmental Health



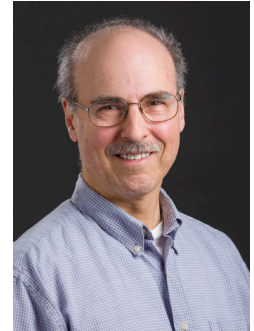
**Colin J. Carlson, PhD**

Director of Program on Attribution Science; Assistant Professor of Epidemiology (Microbial Diseases)



**Daniel Carrión, PhD, MPH**

Director of Education; Assistant Professor of Epidemiology (Environmental Health Sciences)



**Robert Dubrow, MD, PhD**

Founding Faculty, Professor Emeritus, Senior Research Scientist in Epidemiology (Environmental Health)



**Kai Chen, PhD**

Faculty Director, Director of Research; Associate Professor of Epidemiology (Environmental Health Sciences)



**Jeannette Ickovics, PhD**

Director of Program on Climate Change and Urban Health; Samuel and Liselotte Herman Professor of Social and Behavioral Sciences



**Sarah Lowe, PhD**

Director of Program on Climate Change and Mental Health; Associate Professor of Public Health (Social and Behavioral Sciences)



**Jodi Sherman, MD**

Director of Yale Program on Health Care Environmental Sustainability (Y-PHES); Associate Professor of Anesthesiology



**Alixandra Rachman, MPH**

Program Administrator



**Jennifer Wang, MS**

Executive Director

# KEY MOMENTS

**2015**

Yale Climate Change and Health Initiative established with Dr. Robert Dubrow as Faculty Director and Dr. Martin Klein as Executive Director.

**2017**

YCCCH launches the practicum course, Clinic in Climate Justice, Law, and Public Health.

**2018**

YCCCH launches the Online Climate Change and Health Certificate Program for working professionals.

**2019**

Dr. Kai Chen joins YCCCH as Director of Research.

Dr. Jodi Sherman launches the Program on Healthcare Environmental Sustainability.

**2020**

YCCCH is recognized by Provost as an official Yale center.

YCCCH launches the Climate Change and Health concentration for MPH students.

## EVOLVING INTO A NEW DECADE

Ten years since YCCCH's inception as the Yale Climate Change and Health Initiative, 2025 marked both a milestone and a transition for YCCCH. In its first decade, YCCCH honed its craft in educating students, training a global workforce, conducting world-class research to inform policy, and working with communities.

## CELEBRATING TRANSFORMATIVE LEADERSHIP

Dr. Robert Dubrow, YCCCH's founding Faculty Director, stepped down after a decade of visionary leadership. Under his innovative direction with Dr. Marty Klein (Executive Director through 2023), the Center:

- Expanded climate-health research at Yale from Connecticut to the Caribbean and globally
- Recruited Dr. Kai Chen as Director of Research, and Dr. Daniel Carrión as Director of Education
- Graduated 52 MPH students with a concentration in Climate Change and Health
- Created the first-of-its-kind Yale Online Climate Change and Health Certificate Program, which has trained nearly 1,000 professionals from 60 countries
- Initiated a pilot grant program that has awarded \$198,000 for 7 projects; the endowed Yuet Mei Chin Innovation Fund for Junior Faculty now ensures annual pilot grant funding in perpetuity
- Launched a practicum course in Climate Justice and Public Health, in which transdisciplinary student teams have completed 43 projects with community partners

*Photo: Dr. Robert Dubrow giving a talk at the Yale Forum on Climate Change and Health*



## EMBRACING GROWTH AND EVOLUTION

The Center entered its second decade with Dr. Kai Chen stepping into the role of Faculty Director in July 2025, supported by a core staff team consisting of Jennifer Wang, YCCCH Executive Director, and Alixandra Rachman, Program Administrator, both of whom joined in 2023. With ambitions to expand the Center's reach and impact, the team has:

- Welcomed new faculty leads for Programs on Climate Change and Urban Health, Climate Change and Mental Health, and Attribution Science
- Elevated the profile of its longstanding Program on Healthcare Environmental Sustainability (Y-PHES) by initiating a new Lancet Commission on Sustainable Healthcare with the University of British Columbia Planetary Healthcare Lab, and launching an annual flagship event at Climate Week NYC with the New York Academy of Medicine
- Launched the YCCCH Student Research Fellowship to provide training opportunities for students mentored by junior faculty
- Hosted the first-ever Yale Forum on Climate Change and Health in February 2025, bringing together faculty across Yale to share research and explore collaboration
- Shared the latest state-specific research and celebrated community partnerships at the first in-person Connecticut Symposium on Climate Change and Health

With a diverse group of dedicated leaders, the Center is positioned for an even greater impact in this next critical decade for climate and public health.

**2022**

Dr. Daniel Carrión joins YCCCH as Director of Education.

**2023**

YCCCH welcomes Jennifer Wang as Executive Director and Alixandra Rachman as Program Administrator.

**2024**

YCCCH launches a new strategic plan for 2024-2029.

Dr. Jeannette Ickovics launches the program on Climate Change and Urban Health

Dr. Colin Carlson launches the Program on Attribution Science.

**2025**

Dr. Sarah Lowe launches the Program on Climate Change and Mental Health.

Dr. Robert Dubrow retires.

Dr. Kai Chen becomes Faculty Director.

Photo: Lingzhi Chu and Ying Hu, YCCCH postdoctoral associates, at the Yale Forum on Climate Change and Health



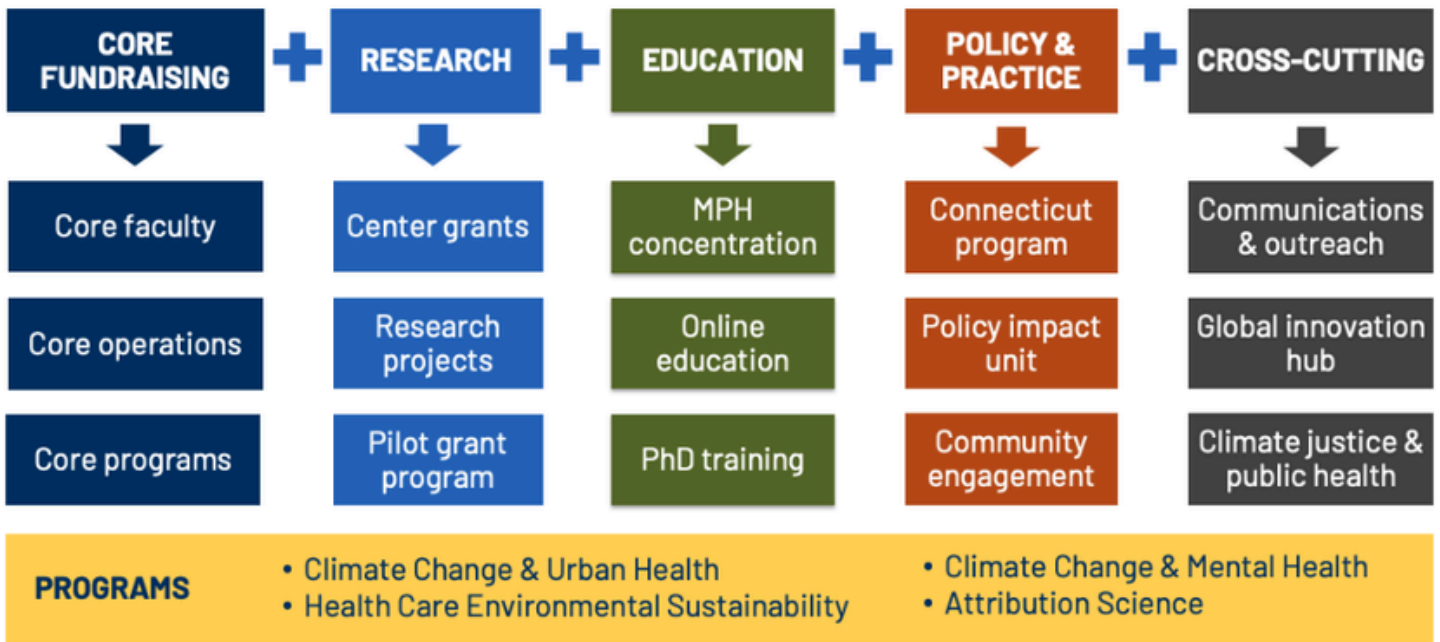
# KEY MOMENTS



Photo: Students sitting outside of the Yale School of Public Health building.

## CHARTING THE NEXT FIVE YEARS

In 2024, the Center developed its second 5-year strategic plan in consultation with affiliated faculty, students, and its advisory board. The plan outlines goals and milestones across five areas of focus: Core fundraising, research, education, policy and practice, and cross-cutting initiatives.



## UNDERSTANDING THE HEALTH TOLL OF CLIMATE CHANGE, ADVANCING PROVEN SOLUTIONS

YCCCCH faculty, post-docs, students, and partners published numerous consequential studies, commentaries, and tools aimed at quantifying the health impacts of climate change, revealing lived experiences, and accelerating interventions.

### Health impacts attributable to climate change

The Health Attribution Library is a living resource that compiles end-to-end attribution studies on the human health impacts of human-caused climate change (Carlson Lab, 2026). A renewed effort to quantify the full global burden of climate change will advance the field of Attribution Science and support legal and policy efforts to combat climate change (Carlson et al., 2025b) and treat it like a global public health emergency (Carlson 2024).

### The growing threat of heat

A review article by Bell et al. (2024) summarizes the evidence on the broad range of health conditions, vulnerabilities, and disparities associated with extreme heat, along with individual- and population-level interventions. A U.S.-wide analysis showed that while cold remains responsible for more total deaths, heat-related mortality increased 53% between the study periods of 2000-2009 to 2010-2020 (Chu et al., 2025a), and that joint exposure to heat and ozone significantly increase the risk of heart attacks among younger adults (Chu et al., 2025b). Moreover, greater heat exposure was found to be associated with increased risk of dying from drug overdose (Dennett et al., 2025), and with crime and violence (Hayon et al., 2024).

### Drivers of heat vulnerability

As populations grow older around the world, they will experience greater temperature-related mortality burden (0.5%, 1.0%, and 2.5%) that will be exacerbated by greater levels of global warming (1.5 °C, 2 °C, and 3 °C, respectively) (Chen et al., 2024). The rise in hotter nights around the world also contributes to heat-related mortality risk (Royé et al., 2025). Black and Latino people in the U.S. consistently experience hotter summers, which may in part be due to present-day residential segregation (Carrión et al., 2024). Qualitative research with socially vulnerable populations found that financial strain, limited green space, and housing restrictions increase vulnerability to heat-related illness in New Haven's Dwight neighborhood (Malhotra et al., 2025), and that migrant farmworkers in Connecticut struggle with heat-related adverse health outcomes in addition to other health risks related to their working conditions and limited healthcare access (Smith et al., 2025).

### Compound climate events and cardiovascular health

As wildfires, prolonged drought, and extreme weather events amplify cardiovascular health risks – both individually and as co-occurring or successive compound events – cardiologists are urged to respond through clinical practice,

research, and interdisciplinary dialogue (Chen et al., 2025).

### **Climate impacts on maternal and child health**

In a scoping review, the majority of studies documented associations between climate drivers and adverse maternal and perinatal health outcomes, including miscarriage, preeclampsia, gestational diabetes, preterm birth, and stillbirth (Masters et al., 2025). An analysis using data from California birth records and the California Cancer Registry showed an association between high ambient temperature in early pregnancy and risk of childhood acute lymphoblastic leukemia (Rogne et al., 2024).

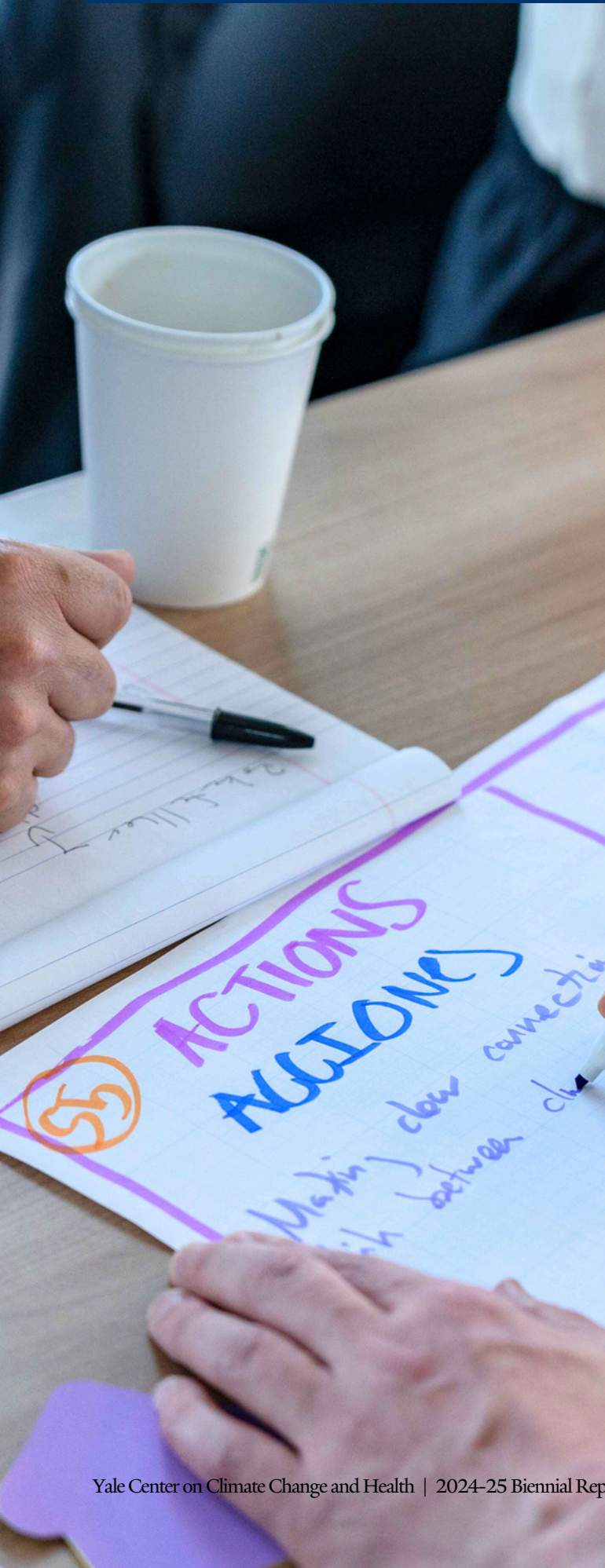
### **Long-term impacts of floods and wildfire smoke**

A study based on 20 years of U.S. data found 22,376 excess deaths linked to flooding, primarily due to respiratory diseases, external causes, and circulatory diseases, with persistent health effects beyond immediate disaster periods (Chu et al., 2025c). Long-term exposure in the contiguous U.S. to wildfire smoke PM<sub>2.5</sub> was found to be associated with cardiovascular, ischemic heart disease, digestive, endocrine, diabetes, mental, and chronic kidney disease mortality (Ma et al., 2024).

### **Mental health impacts of acute and chronic climate change**

Structured interviews with survivors of Hurricanes Maria and Irma in Puerto Rico revealed the complex relationship between how individuals experienced the disasters and their levels of post-traumatic stress as well as post-traumatic growth (Meadows et al., 2025). With





chronic, slow-onset climate change, a systematic review by Burrows et al. (2024) elucidated adverse mental health outcomes, including symptoms of depression and anxiety, suicidality, and feelings of worry, grief, and frustration.

## **Health-related economic losses from extreme weather**

The “XToll: eXtreme-weather Toll Tracker” dashboard provides national- and state-level estimates of economic losses from premature mortality from extreme weather to support public awareness, policy action, and resilience planning (CHEN Lab, 2026).

## **Mitigating infectious disease risk in the face of climate change**

Human-caused climate change is increasing the risk of infectious disease outbreaks and pandemics; for example, it may explain as much as 73.6% of the dengue risk related to hydrometeorological conditions in Brazil and up to 26.5% in China (Yu et al., 2025). Preventing the next crisis will require improving viral monitoring, strengthening health systems, and protecting key ecosystems to limit risky human-wildlife contact (Carlson et al., 2025).

## **Health benefits of lower air pollution exposure through climate and housing policy**

Using large datasets from the UK Biobank, hypothetical interventions to reduce fine particulate matter (PM<sub>2.5</sub>) yielded reduced risk of hospitalization for stroke, heart failure, and heart attack (Lin et al., 2025b), and reduced risk of dementia (Lin et al., 2025a). Likewise, a simulated intervention to reduce residential

segregation showed reduced mortality among low-income Connecticut residents, including from lower exposure to ambient NO<sub>2</sub> (Prasanth et al., 2024).

## Health care climate action yielding results, further ambition needed

As reported in the 2025 Lancet Countdown on Health and Climate Change, health care sector greenhouse gas emissions fell by 162% from 2021 to 2022 but remain at 4.2% of global emissions (Romanello et al., 2025).

Operational and clinical measures are critical to continued progress in reducing health care's climate impact, guided by resources such as Greening the Operating Room and Perioperative Arena (Sherman et al., 2024) and the Healthcare Supply Chain Emissions Calculator (Sherman and Eckelman, 2025).

## Climate risks and health system responses across U.S. states

The Commonwealth Fund State Scorecard on

Climate, Health, and Health Care ranks U.S. states on eight indicators of health system environmental risk, preparedness for extreme weather events, and state health system carbon emissions (Marino et al., 2025).

## Health, economic, and climate benefits of urban climate solutions

A report with the Resilient Cities Network and Sustainable Markets Initiative showed that interventions such as urban greening, cool roofs, active transport, and community resilience measures could save up to 725,000 lives annually, reduce \$70 billion in health care costs, and cut millions of tons of CO<sub>2</sub> (Resilient Cities, Reimagining Health, 2025). A survey with leaders from 118 cities revealed gaps and opportunities for implementing solutions to enhance resilience, reduce climate emissions, safeguard public health, and promote social equity (Ickovics et al., 2025).



*Photo: Aline Baybank collecting air quality data in Connecticut.*



*Photo: Aringe Agu, MPH '25, graduated with a concentration in climate change and health.*

## TRAINING NEW LEADERS IN THE SCIENCE AND PRACTICE OF CLIMATE CHANGE AND HEALTH

### MPH Concentration in Climate Change and Health

As of 2025, **52 MPH students** have graduated with a concentration in Climate Change and Health. They are now working in leadership, research, and programmatic roles such as the following across government, academia, and the nonprofit and private sectors:

- Director of the Office of Climate and Health at the Connecticut Department of Public Health
- Climate and Health Program Manager at the Michigan Department of Health and Human Services
- Life Scientist in the Air and Radiation Division at the U.S. Environmental Protection Agency
- Fellow at the European Commission in Brussels
- Program Coordinator at MIT Energy and Climate
- Research Assistant in the Climate, Environment, and Health Programme at National University of Singapore's Saw Swee Hock School of Public Health
- Technical Analyst at Environmental Defense Fund
- Program Coordinator for the Breaking Barriers Collaborative at Climate Solutions
- Research Assistant at Abt Global
- Associate Public Health Consultant at BME Strategies

## Online Certificate Programs for Working Professionals

The 21-week Yale Climate Change and Health Certificate, launched in 2018, welcomed its **11<sup>th</sup> through 14<sup>th</sup> cohorts** in 2024 and 2025:

- Nearly 1,000 professionals have now been trained through the program, hailing from **over 60 countries**, with backgrounds in public health, medicine and allied fields, mental health, health education, policy, environmental protection, energy, sustainability, government, advocacy, insurance, and other related fields.
- The program boasts a **98.6% “would recommend” rating** from participants (Carrión et al., 2025).
- Scholarships have helped to expand access for professionals from low- and middle-income countries.

The next offering of the Certificate program will open for enrollment in April 2026, and run from September 2026 through March 2027.

As someone in government working on climate policies and programs, I valued the opportunity to be amongst public health professionals, those working in medical and mental health related professions to help me integrate a stronger public health and policy analysis into my work on climate change.

*Lylianna Allala, Director, Seattle Office of Sustainability & Environment, Cohort 11*



The online Climate Change and Health Certificate course by Yale enabled me to, confidently, communicate and plan interventions with colleagues and communities in my day-to-day public health practice.

*Lawrence Mbae, Integrated HIV/TB Specialist, Cordaid International, South Sudan, Cohort 9*

## BUILDING A COMMUNITY OF ENGAGED LEARNERS

Reflecting its values of innovation, collaboration, justice, and community, YCCCCH continually offers opportunities for students to engage with each other and the Center's faculty, staff, and partners:

- Monthly seminars with leading researchers and practitioners
- Fellows program with paid opportunities to assist with research, communications, and policy engagement
- Internship program where students work with partners around the country to create quality summer internship opportunities
- Social events that to build community and network with each other
- Poster sessions, lightning talks, and networking opportunities at major events such as Climate Week, Forum, and Symposium

## Short Course in Climate Change and Mental Health

In 2024, YCCCCH launched an online short course in climate change and mental health for mental health and primary care clinicians. The course provides an accessible format for clinicians to develop actionable knowledge and skills to provide psychiatric and psychological treatment and therapeutic support for patients in the context of climate change. The next offering of the short course is open for enrollment and will begin in late April 2026.



*Photos: Short course taught by Dr. Laelia Benoit (L), Clinical Fellow, Yale Child Study Center, and Dr. Joshua Wortzel (R), Attending Psychiatrist, Institute of Living, Hartford Healthcare, and Adjunct Assistant Professor of Psychiatry, Yale School of Medicine.*

## PARTNERING, COMMUNICATING, AND CONVENING FOR REAL-WORLD IMPACT

### Clinic in Climate Justice and Public Health

Since its launch in 2017, YCCCCH's Clinic in Climate Justice and Public Health has engaged hundreds of students across Yale to complete **43 real-world projects** with nonprofit and government partners. In 2024 and 2025, transdisciplinary student teams undertook projects to:

- Examine barrier to engagement in the passive tick surveillance program (Connecticut Agricultural Experiment Station)
- Assess the air quality impacts and practical implications of providing people who have asthma or respiratory issues with electric induction cooktops (City of New Haven, Office of Climate and Sustainability)
- Understand the impacts of extreme heat on people with severe mental illness (Connecticut Mental Health Center)
- Conduct pilot research on health issues related to air pollution, noise, and heat to inform street vendor electrification efforts (NYC Mayor's Office for Climate and Environmental Justice and the Street Vendor Project)
- Evaluate New Haven residents' perceptions of electric cooking stoves and home heating systems (City of New Haven, Office of Climate and Sustainability)
- Develop a template and toolkit for local heat and air quality preparedness and response planning (Connecticut Department of Public Health)





*Photo: Group photo at the CityXChange meeting in Mexico City.*

### **Climate change and urban health**

The Yale Program on Climate Change and Urban Health within YCCCH, led by Dr. Jeannette Ickovics, is a co-host to the Urban Pulse initiative, dedicated to putting health and equity at the heart of climate action. Urban Pulse is a transdisciplinary collaboration between the Resilient Cities Network and Yale University to identify urban climate and health priorities. The initiative has launched major reports at Climate Week NYC, including *The Case for Action: The Power of Prevention to Support Health in a Changing Climate with the Sustainable Markets Initiative (2025)* and *Urban Pulse: Identifying Resilience Solutions at the Intersection of Climate, Health and Equity (2024)*.

The program also partnered with the Resilient Cities Network to co-host the CityXChange meeting in Mexico City in 2024, with facilitation by Dr. Ickovics and Dr. Carrión. The three-day exchange aimed to address issues at the intersection of climate change, health, and equity through discussions, workshops, and sessions focused on transforming challenges into actionable solutions. Representatives from cities across eight countries and four Mexican states shared their city-led initiatives to combat climate change and promote public health.

## Health Systems Implementing Climate Action

In 2024, in partnership with The New York Academy of Medicine, YCCCCH launched the annual Health Systems Implementing Climate Action, the largest full-day event on climate change and health at Climate Week NYC. Co-chaired by Dr. Jodi Sherman, director of the Yale Program on Healthcare Environmental Sustainability, the event drew hundreds of health sector and business leaders to share innovative solutions for building low-carbon, resilient healthcare systems that provide quality care and protect communities from climate-related health impacts.

## Policy advocacy

YCCCCH partnered in international, national, and state policy advocacy initiatives to address the health impacts of climate change:

- Joined over **47 million health professionals** worldwide in WHO's clean air call-to-action
- Joined over **85 health organizations** supporting OSHA's proposed heat injury prevention standard
- Joined dozens of health professionals across Connecticut at the 2024 and 2025 climate-health advocacy days at the Connecticut State Capitol



Photo: Health Systems Implementing Climate Action conference at 2025 Climate Week NYC

## SCALING IMPACT AND EXPANDING OUR REACH

As federal investment declines and political uncertainty grows, YCCCH’s work is more essential than ever. Our next phase will prioritize scalable climate-health adaptation, policy translation tools, urban resilience partnerships, and equity-centered research.

Major goals for the coming years include:

- Secure investment in core faculty, core operations, core programs, and students
- Conduct rigorous, transdisciplinary, policy-relevant research
- Train current and future leaders and workforce in climate change and health
- Advance policy engagement and the practice of public health and health care
- Develop new cross-cutting initiatives that integrate research, education, policy, and practice
- Launch a training webinar on climate change and cardiovascular health

None of this is possible without the community that surrounds this work. We are grateful for every collaborator, funder, student, partner, and ally who shares our conviction that climate action is, at its core, a public health imperative. There is hard work ahead – and we are ready for it.



*Photo: Pargool Arab in Joanne McGovern’s course entitled, “Public Health Emergencies: Disaster Planning and Response.”*

# SELECTED PUBLICATIONS

Names of YCCCCH core team members are **bolded**. Names of YCCCCH Affiliated Faculty and trainees are underlined.

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