

EMORY GLOBAL HEALTH INSTITUTE & GEORGIA TECH

# HACKATHON

FALL 2023

## CLIMATE CHANGE & HEALTH



EMORY  
UNIVERSITY

Emory Global Health Institute



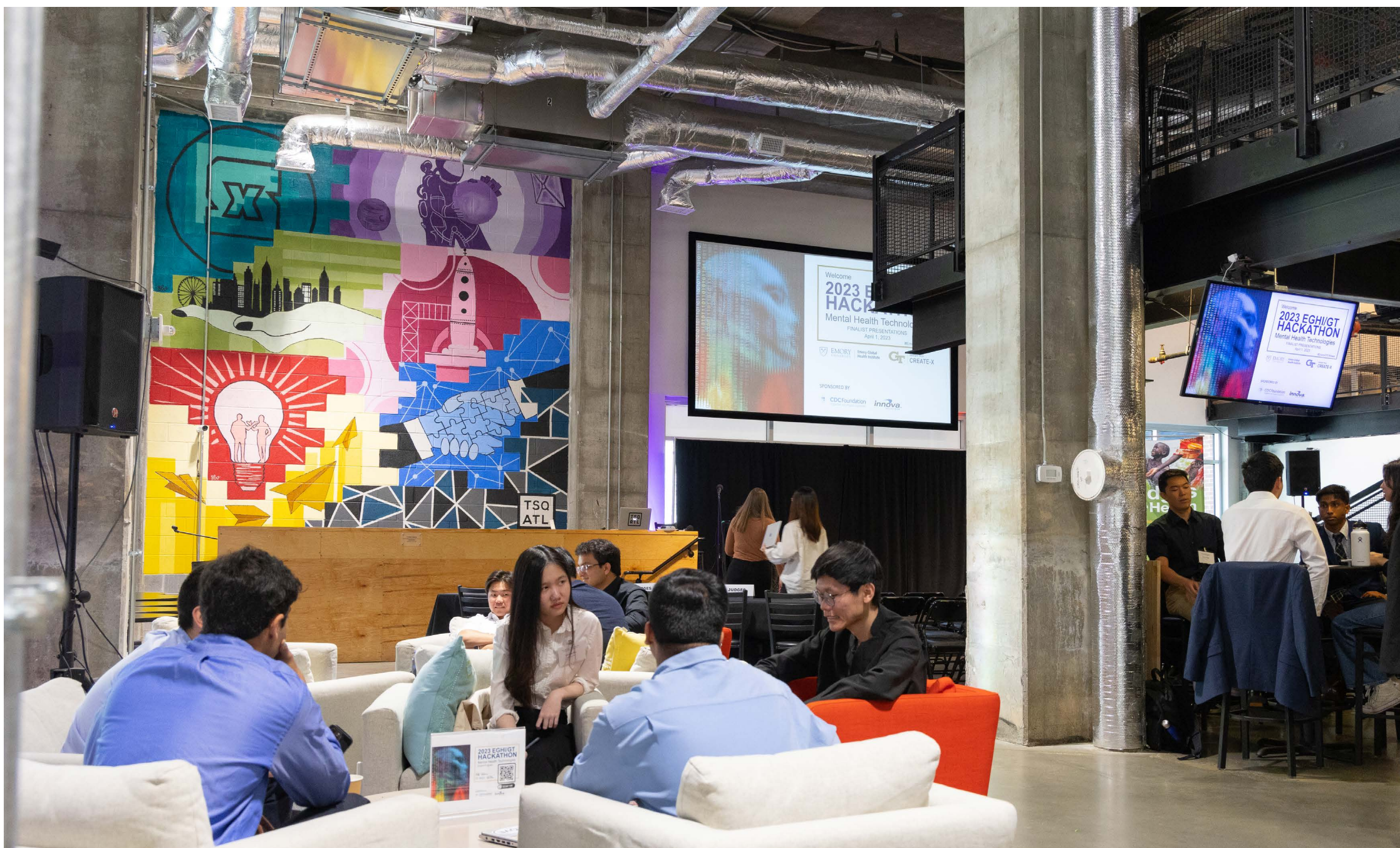
Georgia Tech  
CREATE-X

# WELCOME.

In 2019, Emory Global Health Institute and Georgia Tech's CREATE-X launched a global health hackathon to offer a cross-institutional, interdisciplinary experience to students interested in developing innovative technologies to address global health challenges.

The Fall 2023 Eghi/GT Hackathon prompted student teams to envision solutions that address one of the following threats to health, safety, and security: *urban flooding* or *urban heat* in Atlanta or *global sea-level rise* in densely populated, low-resource urban settings.

We welcome you to the final round of the Fall 2023 competition during which the top 5 finalist teams present their solutions for mitigating the impact of climate change on health, a massive global health challenge and opportunity to protect health through innovation and cooperation at local, regional, and global levels.



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NOVEMBER 11, 2023 • TECH SQUARE ATL SOCIAL CLUB

# FINAL ROUND AGENDA

**1 PM** TEAM CHECK IN

**2 PM** WELCOME & OPENING REMARKS

**2:15 PM** FINAL PRESENTATIONS

**3:30 PM** RECEPTION

**4 PM** ANNOUNCEMENT OF WINNING TEAMS

**1:15 PM** JUDGES BRIEFING

**3:30 PM** JUDGES DELIBERATION



# FINALIST TEAMS



10

**FloodWise**

Ansh Gupta  
Dimi Deju  
Mukund Chidambaram  
Sahit Mamidipaka

11

**Canopy**

Deesha Panchal  
Kruthik Ravikanti  
Vaibhav Mishra  
Nicholas Swanson  
Jennifer Samuel  
Vaishnavi Sanjeev

13

**EHAUS**

Microl Chen  
Rahul Komatineni  
Ishan Kulkarni  
Kathy Ning  
Kush Mehta

20

**Conquering Heat Islands**

Rida Akbar  
DJ Louis  
Edward Zheng  
Dmitri Kalinin  
Jade Bondy

22

**Real-Time Computational Modeling of Urban Flooding & Evacuation in Local Atlanta Communities**

Imran Shah  
Leonardo Molinari  
Jiaqi Yang

# THANK YOU FIRST ROUND JUDGES

for your time and expertise  
in selecting the top 5  
finalist teams.

**Anna Baggett, MS, AICP**  
TSW

**Vikas Kapil, DO, MPH**  
Center for Global Health, CDC

**Wesley Longhofer, PhD**  
Goizueta Business School, Emory University

**Nakia Melecio, PhD, MA**  
ATDC, Georgia Tech

**Dori Pap, MBA, MS**  
Ideas-to-Serve, Georgia Tech

**Karthik Ramachandran, PhD, MS**  
Sustainable-X, Georgia Tech

**Brian Stone, PhD**  
School of City and Regional Planning, Georgia Tech

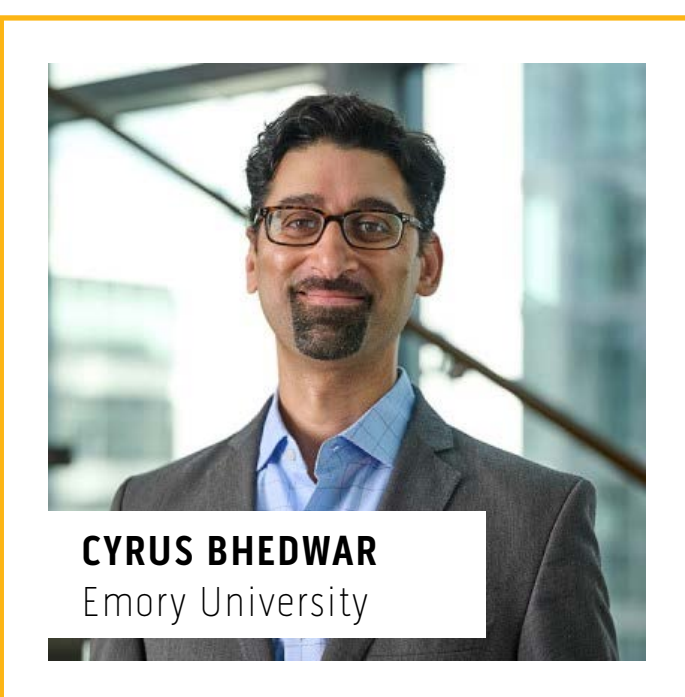


*Spring 2023 EGIH/GT Hackathon winning team*

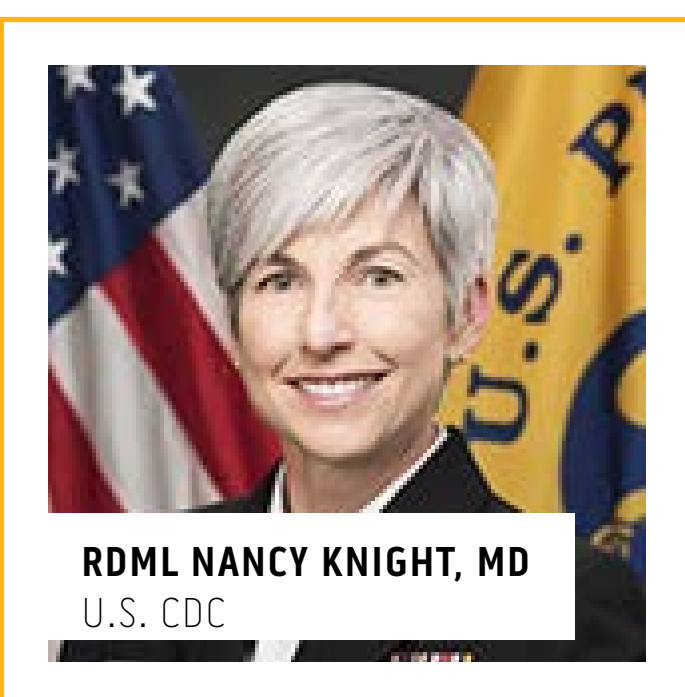
THANK YOU TO OUR  
**FINAL ROUND JUDGES**



**Anirvan Acharya** is Vice President & Healthcare Solutions Leader at Innova Solutions. With over 19 years of industry-experience and a strong consulting acumen, Anirvan helps healthcare organizations utilize the best-fit digital levers to reengineer their business processes, optimize the core administrative platforms, create meaningful insights from data, and deliver best health outcomes for members.



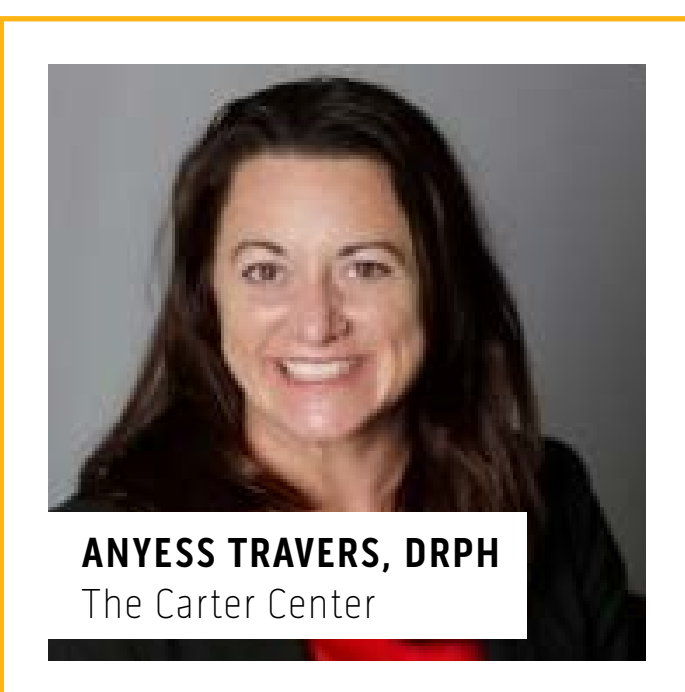
**Cyrus Bhedwar** joined Emory's Office of Sustainability Initiatives team in 2023. His career has focused on advancing energy efficiency and sustainability at the local, state, and regional levels. As the Director of Energy Efficiency Policy at the Southeast Energy Efficiency Alliance, he worked with state and local policymakers to advance energy efficiency across the Southeast.



**Rear Admiral Nancy Knight** is CDC's National Security Liaison and currently serving within the U.S. Department of Health and Human Services as Senior Advisor to the Assistant Secretary for Health and the Surgeon General. With over 22 years of public health experience, Nancy has led the implementation of global programs and developed U.S. government policies for global health security utilizing a multi-sector, One Health approach. She has helped strengthen public health workforce capacity and laboratory, surveillance, and response systems to identify and mitigate against threats to the health of individuals and communities.



**Kalpesh Nanji** is a product and technology executive with over 25 years of experience. As Global Chief Product Officer for Honeywell's Building Management Systems Group, Kalpesh leads a team of talented product leaders who develop breakthrough ideation and incubation of new product offerings, drive portfolio management, and collaborate with customers and partners to deliver solutions that elevate experience, health, safety, and sustainability in the built environment.



**Dr. Anyess Travers** is the Associate Director of Special Health Programs at The Carter Center. Anyess leads implementation of the unit's strategic plan by incubating cross-cutting innovative initiatives specific to climate change, peace through health, health systems strengthening, and mental health that pose challenges to meeting the Center's global health commitments.

# WITH SPECIAL THANKS TO OUR SPONSORS



Fall 2023 EGIH/GT Hackathon was made possible with their support

