



JULIO FRENK, M.D., Ph.D., MPH
 President, University of Miami
The science is clear and convincing: Climate change poses a very real risk to our health. The new Master of Science in Climate and Health will provide an exciting interdisciplinary approach to understanding and mitigating the many complex factors that impact this new frontier in public health.



EDWARD ABRAHAM, M.D.
 Executive Vice President for Health Affairs and Chief Executive Officer, UHealth, Leonard M. Miller School of Medicine
The Master of Science in Climate and Health is a unique and highly important interdisciplinary Graduate Program that will train future generations of leaders to manage the emerging health effects of climate change and extreme weather.



University of Miami

U-MSCH

The University of Miami's Miller School of Medicine and Rosenstiel School of Marine and Atmospheric Science (RSMAS) launch a Master of Science in Climate and Health (U-MSCH) graduate program to begin in Fall 2019. The program will train future generations of professionals, research analysts, planners, decision-makers and leaders to address the *intricate relationship* between human health and climate, climate change and weather patterns and weather anomalies (C²W²), and quantify this relationship at multiple scales ranging from gene expression to individual's susceptibility, community response and the regional morbidity and mortality burden.

For more information, contact:
Naresh Kumar, Ph.D., Director
nkumar@miami.edu
Elliot Atlas, Ph.D., Co-Director
eatlas@miami.edu

To Apply please visit:
www.sophas.org

Department of Public Health Sciences,
 Leonard M. Miller School of Medicine
 and
 Department of Atmospheric Sciences,
 Rosenstiel School of Marine and
 Atmospheric Science (RSMAS)

*Program pending final
 Board of Trustees' approval.*

Master of Science in Climate and Health



UNIVERSITY OF MIAMI
 MILLER SCHOOL
 of MEDICINE

UNIVERSITY OF MIAMI
 ROSENSTIEL SCHOOL
 of MARINE AND
 ATMOSPHERIC SCIENCE



Naresh Kumar, PhD
Director
(In)direct health effects
of climate and extreme
weather



Elliot Atlas, PhD
Co-Director
Sources, transport and
transformation of
atmospheric trace gases



John Beier, PhD
Vector-borne disease,
climate and weather



Amy Clement, PhD
Climate systems and
mathematical modeling



Ami Raval, PhD
Neurology, toxicology,
weather and climate



Mehdi Mirsaedi, MD
Pulmonary and infectious
disease and climate



Brian Soden, PhD
Tropical climate change,
climate modeling and
remote sensing



D. Jayaweera, MD
Infectious disease
(HIV/AIDS) and climate



Guan Yangtao, PhD
Spatio-temporal modeling
of climate and health

Core Competencies

- Geophysical principles and processes that regulate global and regional climate and weather patterns
- Intricate direct and indirect relationships between health and climate, climate change, weather and extreme weather (C²W²)
- Biological responses to short- and long-term climate changes and weather patterns
- Time-space models to quantify direct and indirect health effects of C²W²
- Management of the health impacts of C²W²
- Climate and health policy evaluation
- Health inequality in vulnerability to climate, weather and climate health

Program Highlights

- Two-year Master's Degree
- Core Courses
 - Weather and Climate
 - Health and Climate: Intricate Relationship
 - Toxicology, Climate and Weather
 - Climate and Health Data: Sources, Types and Integration
 - Modelling Health Effects of Climate and Weather
 - Policies and Management of the Health Effects of Climate and Weather
- Tracks
 - Public Health Sciences
 - Marine and Atmospheric Sciences
 - Climate and Health - Analytical
 - Toxicology
- Thesis
 - Opportunities to pursue research with interdisciplinary faculty members from five colleges
- Fellowships Available

Eligibility

- Bachelor's Degree (GPA ≥ 3.0)
- Required Prerequisite Courses
 - One year of college calculus and physics courses
 - One biology course
- GRE or MCAT: ≥ 60th percentile
- TOEFL: ≥ 80 percentile (if applicable)
- Three Letters of Recommendation

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