



Boston University Graduate Program in
Urban Biogeoscience & Environmental Health

Building the Next Generation Climate Workforce Through Graduate Student Training

Pamela Templer, PhD

Professor, Department of Biology
Director, BU URBAN Program
ptempler@bu.edu



NSF Research Traineeship (NRT) Program

- Launched in 2014: five-year \$3M grants for graduate programs
- Integrate interdisciplinary research with graduate training
- Broaden participation in STEM education
- Prepare graduate students for variety of career paths



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UCDAVIS

Sustainable Oceans - From Policy To Science To Decisions

A National Science Foundation Research Traineeship (NRT)



ELEVATE @ UMASS AMHERST
ELEVATING EQUITY VALUES IN THE TRANSITION OF THE ENERGY SYSTEM



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- Our NRT program began in 2017

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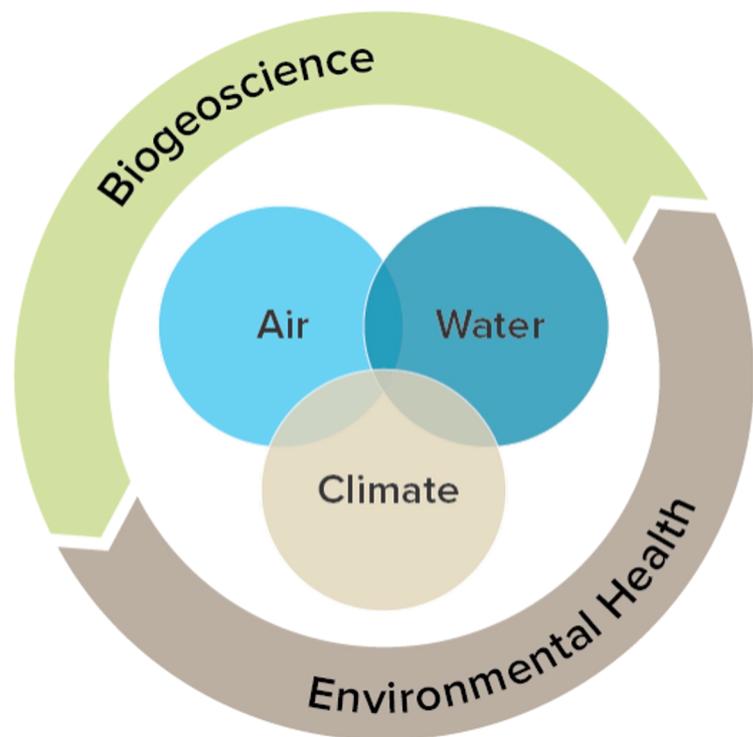


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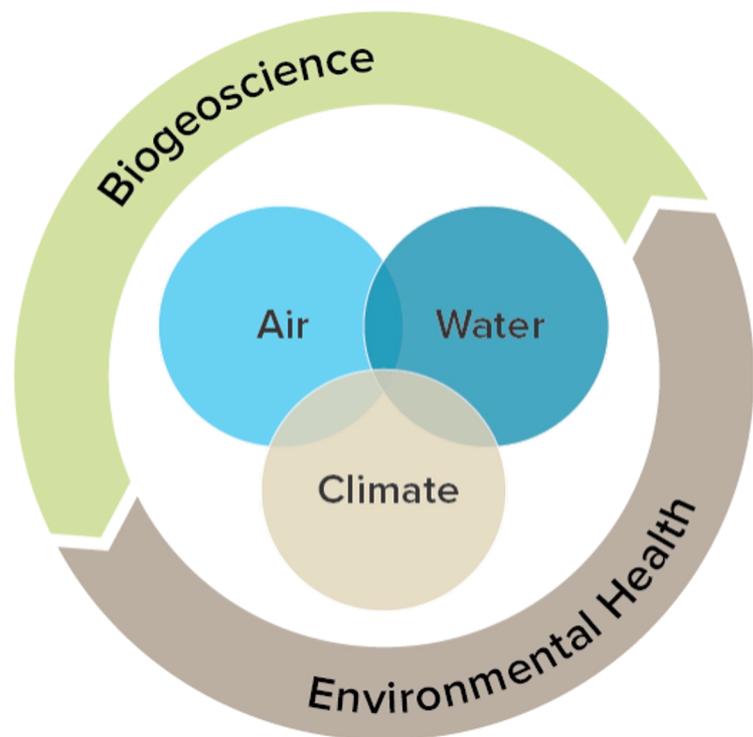
@bu_urban 
@bu_urban 

How URBAN Prepares Students for Climate Workforce



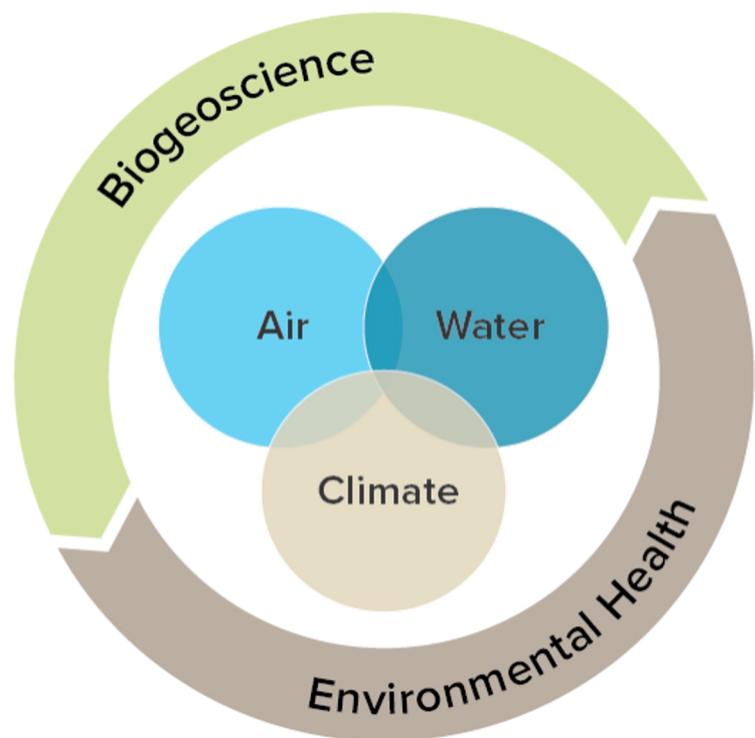
How URBAN Prepares Students for Climate Workforce

- Provide **interdisciplinary training** to graduate students to tackle urban environmental challenges

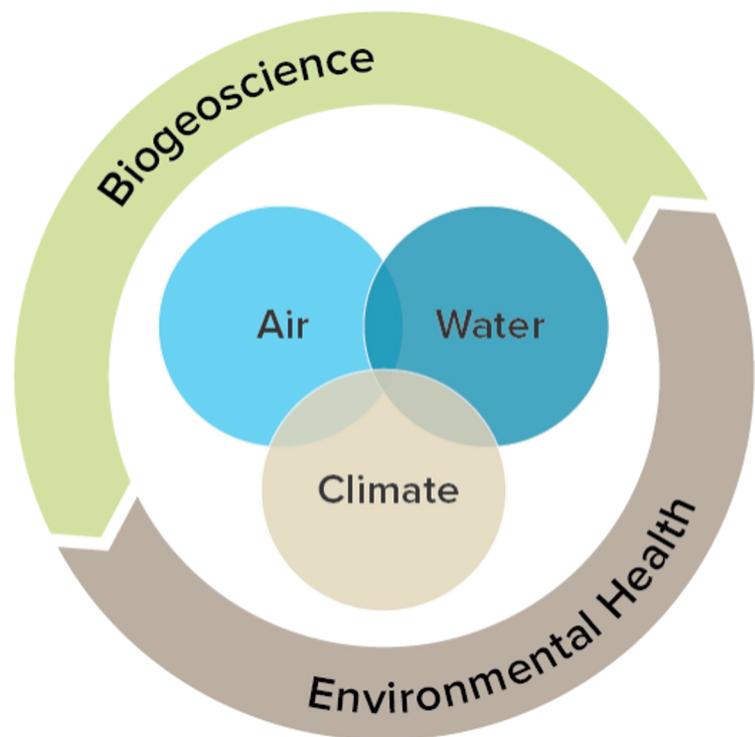


How URBAN Prepares Students for Climate Workforce

- Provide **interdisciplinary training** to graduate students to tackle urban environmental challenges
- **Courses** in Biogeoscience, Environmental Health, and Statistics

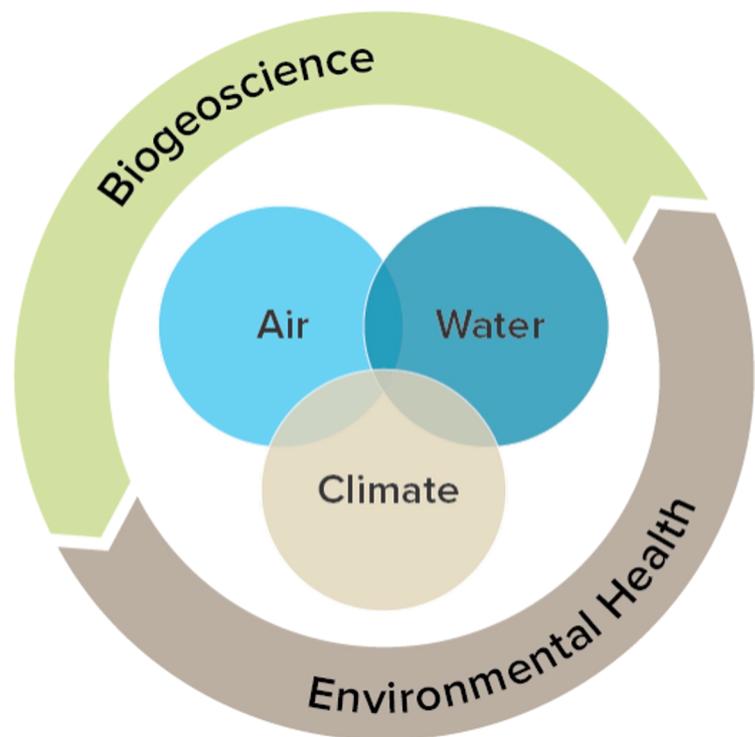


How URBAN Prepares Students for Climate Workforce



- Provide **interdisciplinary training** to graduate students to tackle urban environmental challenges
- **Courses** in Biogeoscience, Environmental Health, and Statistics
- **Workshops** in city governance and science communication

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- Provide **interdisciplinary training** to graduate students to tackle urban environmental challenges
- **Courses** in Biogeoscience, Environmental Health, and Statistics
- **Workshops** in city governance and science communication
- **Internships** with governments, non-governmental organizations, private sector

URBAN Boston University Graduate Program in
Urban Biogeoscience & Environmental Health
SPRING 2022 CALENDAR

Event details at sites.bu.edu/urban

-
- January 10 Faculty & Staff Research Retreat
10:00-11:45am
-
- February 10 State of the City (SotC) Viewing Party
5:00-6:30pm
-
- February 15 SotC Debrief with Katharine Lusk
4:00-5:00pm
-
- February/March Civic Meeting Observations
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- March 3 Engaging with Decoloniality Workshop
3:30-5:00 pm
-
- March 22 Communicating Science, Shaping Policy Workshop
3:30-5:00pm
-
- March 30 Deadline for BU URBAN
5:00pm Research & Travel Awards
-
- April 5 Bridging the Research-Policy Divide:
1:00-2:30pm Lessons from Cities Tackling Extreme Heat
-
- April 14 Faculty & Staff Meeting
3:30-4:30pm
-
- April 26 External Advisory Board Meeting
9:00-10:15am Professional Networking Fair
10:30am-12:30pm
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- May 6 Trainee Feedback Session
8:30-9:30am Advisor Feedback Session
2:00-3:00pm Pastries with Pam
4:00-5:00pm
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- June 2 Faculty & Staff Research Retreat
12:00-4:00pm
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- June 9 Building the Next Generation
12:00-1:00pm Climate Workforce Congressional Briefing
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- June 14-16 Science Policy Trip to Washington, DC

Program Examples

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Program Examples

State of the City (of Boston) Address and Debrief



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Program Examples

**Communicating Science, Shaping Policy:
A Skills-Based Workshop Featuring Union of Concerned
Scientists and GreenRoots**



Presented by:
BU URBAN
BU STEPUP
BU PDPA
Union of Concerned Scientists
GreenRoots

March 22, 2022
3:30-5:00 pm EST
Remote on Zoom

Register [HERE](#)

State of the City (of Boston) Address and Debrief



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Professional Networking Fair



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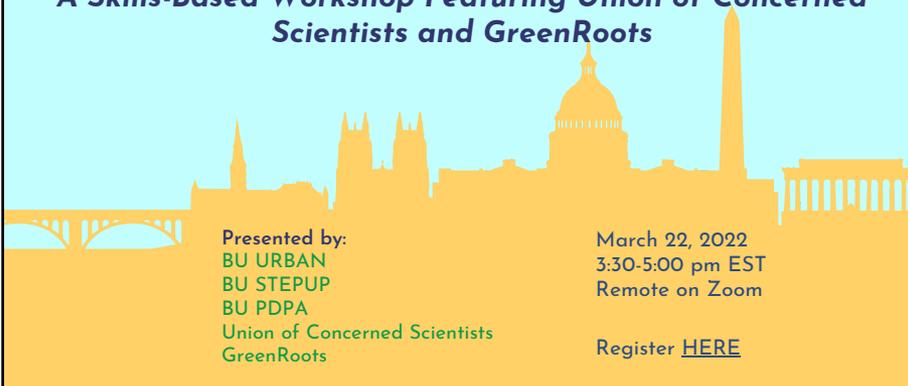
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Professional Networking Fair



Funded Internships with Private Sector, Government, and Non-government Organizations



SPEAK FOR THE TREES

Boston



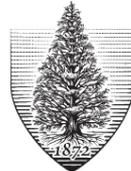
QUANTAQ



DEVELOP National Program
Applied Sciences' Capacity Building

sustainability @ BU
It's what you *do*.

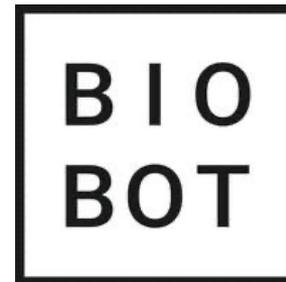
The Nature Conservancy



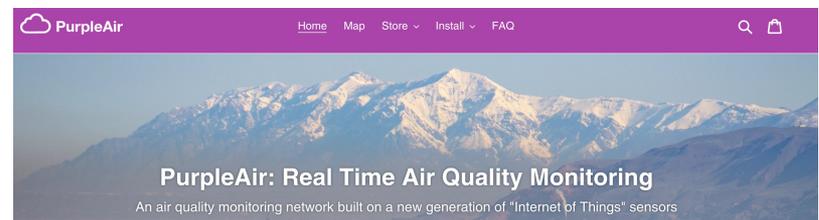
The ARNOLD ARBORETUM
of HARVARD UNIVERSITY



Maine Medical Center
Research Institute



CITY of BOSTON





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Please reach out!



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Yasmin Romitti



Ph.D. Candidate
Department of
Earth and Environment



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Boston University Graduate Program in
Urban Biogeoscience & Environmental Health

Yasmin Romitti Background



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Background



Research interests



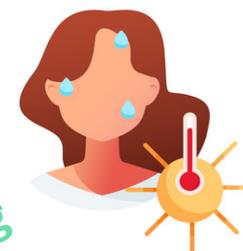
Temperature



Energy Demand



Air Conditioning



Human Health



Ph.D. Candidate
Department of
Earth and Environment



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URBAN internship



Dr. Jalonne
White-Newsome

Understanding the role of buildings in environmental justice



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URBAN internship



Dr. Jalonne
White-Newsome

City of Los Angeles



Compliance status of
buildings required to
report annual
emissions (2019):

- Not complied
- Complied

Understanding the role of buildings in environmental justice



Chicago



Los Angeles



San Francisco



New York



Orlando



Miami

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The value of BU URBAN

Community that wants to do things differently



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Community that wants to do things differently



Interdisciplinary research

Article | [Open Access](#) | [Published: 11 March 2022](#)

Heterogeneous climate change impacts on electricity demand in world cities circa mid-century

[Yasmin Romitti](#)  & [Ian Sue Wing](#)

[Scientific Reports](#) **12**, Article number: 4280 (2022) | [Cite this article](#)

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Professional development

