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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• Our NRT program began in 2017

URBAN Boston University Graduate Program in Urban Biogeoscience & Environmental Health

NSF

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Boston University Graduate Program in Urban Biogeoscience & Environmental Health
How URBAN Prepares Students for Climate Workforce
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- Provide interdisciplinary training to graduate students to tackle urban environmental challenges
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- Provide **interdisciplinary training** to graduate students to tackle urban environmental challenges
- **Courses** in Biogeoscience, Environmental Health, and Statistics
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- **Workshops** in city governance and science communication
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- **Courses** in Biogeoscience, Environmental Health, and Statistics
- **Workshops** in city governance and science communication
- **Internships** with governments, non-governmental organizations, private sector
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>January 10</td>
<td>Faculty &amp; Staff Research Retreat</td>
</tr>
<tr>
<td>10:00-11:45am</td>
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<tr>
<td>February 10</td>
<td>State of the City (SotC) Viewing Party</td>
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<tr>
<td>5:00-6:30pm</td>
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<tr>
<td>February 15</td>
<td>SotC Debrief with Katharine Lusk</td>
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<tr>
<td>4:00-5:00pm</td>
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<tr>
<td>February/March</td>
<td>Civic Meeting Observations</td>
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<tr>
<td>March 3</td>
<td>Engaging with Decoloniality Workshop</td>
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<tr>
<td>3:30-5:00pm</td>
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<tr>
<td>March 22</td>
<td>Communicating Science, Shaping Policy Workshop</td>
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<tr>
<td>3:30-5:00pm</td>
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<tr>
<td>March 30</td>
<td>Deadline for BU URBAN Research &amp; Travel Awards</td>
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<tr>
<td>5:00pm</td>
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<tr>
<td>April 5</td>
<td>Bridging the Research-Policy Divide:</td>
</tr>
<tr>
<td>1:00-2:30pm</td>
<td>Lessons from Cities Tackling Extreme Heat</td>
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<tr>
<td>April 14</td>
<td>Faculty &amp; Staff Meeting</td>
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<tr>
<td>3:30-4:30pm</td>
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<tr>
<td>April 26</td>
<td>External Advisory Board Meeting</td>
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<tr>
<td>9:00-10:15am</td>
<td>Professional Networking Fair</td>
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<td></td>
<td>10:30am-12:30pm</td>
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<tr>
<td>May 6</td>
<td>Trainee Feedback Session</td>
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<tr>
<td>8:30-9:30am</td>
<td>Advisor Feedback Session</td>
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<tr>
<td>2:00-3:00pm</td>
<td>Pastries with Pam</td>
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<td>4:00-5:00pm</td>
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<tr>
<td>June 2</td>
<td>Faculty &amp; Staff Research Retreat</td>
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<tr>
<td>June 9</td>
<td>Building the Next Generation</td>
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<tr>
<td>12:00-1:00pm</td>
<td>Climate Workforce Congressional Briefing</td>
</tr>
<tr>
<td>June 14-16</td>
<td>Science Policy Trip to Washington, DC</td>
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# Program Examples

**SPRING 2022 CALENDAR**

Event details at [sites.bu.edu/urban](http://sites.bu.edu/urban)

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**State of the City (of Boston) Address and Debrief**

[Image of a speaker at a podium with an American flag in the background.]

- [Image of a man giving a speech at a podium with microphones in the background.]

- [Image of a group of people at a table with flags and microphones.]
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](#)

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**Professional Networking Fair**

**Program Examples**

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**State of the City (of Boston) Address and Debrief**

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**Professional Networking Fair**
Funded Internships with Private Sector, Government, and Non-government Organizations
Boston University Graduate Program in Urban Biogeoscience & Environmental Health

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Please reach out!
Yasmin Romitti

Ph.D. Candidate
Department of
Earth and Environment
Yasmin Romitti

Ph.D. Candidate
Department of Earth and Environment
Boston University Graduate Program in Urban Biogeoscience & Environmental Health

Yasmin Romitti
Ph.D. Candidate
Department of Earth and Environment

Background

Research interests

- Temperature
- Energy Demand
- Air Conditioning
- Human Health
Understanding the role of buildings in environmental justice

Dr. Jalonne White-Newsome

EGE²
EMPOWERING A GREEN ENVIRONMENT AND ECONOMY
Delivering people-centered solutions to transform communities

IMT
INSTITUTE FOR MARKET TRANSFORMATION

INSTITUTE FOR
Sustainable Communities
Understanding the role of buildings in environmental justice

City of Los Angeles

Compliance status of buildings required to report annual emissions (2019):
- Not complied
- Complied

Dr. Jalonne White-Newsome

URBAN internship
The value of BU URBAN
Community that wants to do things differently
The value of BU URBAN
Community that wants to do things differently

Interdisciplinary research

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)
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