

Yale University

President's Public Service Fellowship

Proposal for Fellowship Placement Summer 2024

Organization information

<i>Name of organization</i>	Yale Urban Design Workshop (YUDW) and Yale Center on Climate Change and Health (YCCH)
<i>Full street address</i>	YUDW Offices, 1221 Chapel Street, 2nd Floor, New Haven, CT 06511
<i>Website or link to social media page</i>	www.udw.architecture.yale.edu ; www.ysph.yale.edu/yale-center-on-climate-change-and-health/program-background

PPSF Fellow's direct supervisor

<i>Name</i>	Andrei Harwell, YUDW and Rob Dubrow, YCCH
<i>Title</i>	AH, Director, YUDW and Senior Critic, YSoA RD, Director, YCCH, and Professor of Epidemiology, YSPH
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What is the best way for prospective student applicants to contact you with questions about your proposal?

- Send an e-mail to set up a 15-meeting phone call to discuss

Placement dates (8-11 weeks between Tuesday, May 28, 2024 through Friday, August 9, 2024)

May 28-August 9 2024

Are placement dates flexible? Are there any dates on which your Fellow must work?

Yes

Proposed work schedule (*work week should equal (and not exceed) 37.5 hours per week*)

Typically M-F, 9:00 to 5:00, with lunch break. See note below regarding after-hours responsibilities.

If a hybrid schedule is offered at your site, please describe:

One remote work day may allowed with permission of supervisors.

Organization description

The Yale Center on Climate Change and Health (CCCH) utilizes research, education, public health practice, and service to help achieve a world with a stable and safe climate; one in which the public's health and diverse ecosystems can thrive.

The Yale Urban Design Workshop (YUDW) is a community design center affiliated with the Yale School of Architecture. Since its founding in 1992, the YUDW has worked with communities across the state of Connecticut and around the world, providing planning and design assistance on projects ranging from comprehensive plans, economic development strategies and community visions to the design of public spaces, streetscapes, and individual community facilities. YUDW has worked with New Haven's Dwight neighborhood since 1995.

Write a 1-2 sentence summary of the work that the Fellow would be conducting.

The Fellow will manage, support, coordinate, and execute, under the supervision of the principal investigators from the School of Architecture and the School of Public Health, summer 2024 activities of the community-based research project "Addressing Urban Heat in the Dwight Neighborhood of New Haven: A Prototype for Neighborhood-Level Planning," building on work completed in

2023 under a grant from the Climate Innovation Fund of the Yale Planetary Solutions Project.

Write a more complete description of the specific project you propose and list the duties/outcomes expected of the Fellow.

Low-income communities of color living in inner-city neighborhoods are disproportionately impacted by heat that is worsening due to climate change, making heat vulnerability a critical climate justice issue. In this project, faculty from the School of Public Health and the School of Architecture are developing and testing a model six-component methodology for research and analysis of environmental heat exposure, its impacts, and potential solutions in the low-income, inner-city Dwight neighborhood of New Haven. We aim to 1) test the hypothesis that there is meaningful heterogeneity in temperature exposure even within a small neighborhood such as Dwight; 2) to show that a deep-dive assessment of heat exposure, impacts, and potential solutions at the “micro” neighborhood scale will inform cooling solutions in a way that cannot be done using more “macro” approaches; 3) to provide a model that will be transferable to other neighborhoods in New Haven and in other cities; and 4) to provide primary data as scientific input into a Dwight neighborhood planning process, contributing directly to the development and siting of specific strategies and project proposals to mitigate the impacts of urban heat.

The Yale President’s Public Service Fellow will work with faculty during the summer of 2024 to continue and build on research carried out in summer and fall of 2023. The duties of the Fellow will be to help carry out the following two primary goals:

1. Household Heat Exposure. We will collect continuous indoor temperature and humidity data during the summer months from 20 Dwight households representing a range of demographic and housing characteristics. We also will use electricity usage monitors to continuously monitor usage by window air conditioners and will collect electric bills from the 20 households.
2. Quantitative Survey. We also will conduct a quantitative survey about participants’ experience of heat exposure, its impacts, concerns and challenges, and potential solutions. The goal is 200 responses.
3. Assist in the analysis and preparation of findings from these two components of the study, as well as assisting with preparation of findings from 2023 focus groups and research on heat heterogeneity.

The fellow will interact with community members and may have the opportunity to present findings in public community venues, such as the Dwight Central

Management Team meetings. The fellow may also have the opportunity to be co-author on academic papers the result from this research.

List any specific skills/experience required for the project

The fellow will receive practical and technical training and professional mentorship on techniques of community engagement and advocacy around health, urban design, sustainability, climate change resilience, and urban research methods, with particular emphasis on advanced principles of neighborhood design and climate adaptation, instrumentation and data gathering.

The ideal candidate for this position will be a student whose academic interests and experience bridge between health, environmental science, and urban design in exploring community- and place-based strategies for improving community health outcomes through data gathering, community engagement, and urban design. Students in public health, epidemiology, medicine, urban planning, environmental management, architecture, and other related fields will be considered.

- Study in an appropriate field, such as public health, environmental management, urban planning, architecture, or urban design, from an outstanding program
- Experience and interest in community engagement and public education
- Strong qualitative and quantitative research, organizational, and interpersonal skills
- Strong written and communication skills in English
- Collaborative and team-oriented personality, while also independent and self-motivating
- Fluency in Spanish preferred
- Experience working with a range of software tools.
- Strong project management skills with attention to detail
- Experience collecting and managing quantitative and qualitative data preferred
- Professional experience in a related field preferred
- Experience working with underserved urban and minority communities preferred
- Experience developing maps and data visualization using Geographic Information Systems (GIS) preferred
- Urban and environmental research experience preferred
- Public Health research experience preferred

Additional requirements

Occasional evening and weekend hours may be required to attend community meetings, presentations, and events, and to accommodate the availability of community members who may work during the day. Comp time can be provided to offset after-hours work.

Briefly describe any work that Yale PPSF Fellows and/or Yale students have done with your organization.

The Yale Urban Design Workshop has hosted a number of PPS Fellows to work with the Dwight neighborhood on planning and advocacy issues, most recently to assist with the 2007 revision to the grass-roots based Dwight neighborhood plan.