

FOR OFFICE USE ONLY

DATE RECEIVED: **03/12/2025**

DATE APPROVED: **03/12/2025**

FILE NUMBER: **#25-039**

APPLICATION FOR STATISTICAL CONSULTING

LAST NAME: **FERRAREZZI**

FIRST NAME: **Cristiane**

DEPARTMENT (full name): **Environmental and Ecological Engineering**

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YOUR PRIMARY POSITION AT PURDUE: **PhD Student**

Other:

(if a student) MAJOR PROFESSOR LAST NAME: **Whelton** FIRST NAME: **Andrew**

PHONE NUMBER: **5402306069**

MAJOR PROFESSOR CAMPUS ADDRESS (BLDG & DEPT): **Civil Engineering and Environmental and Ecological Engineering / Hampton**

MAJOR PROFESSOR EMAIL: **awhelton@purdue.edu**

HOW DID YOU FIND US: **Recommendation of my advisor or committee member**

LIST STATISTICS COURSES TAKEN AND STATISTICAL COMPUTING EXPERIENCE: **Introductory, but more than 20 years ago.**

STAGE OF RESEARCH: **Design (no data collected yet)**

IF DESIGN STAGE IS COMPLETE, WAS A STATISTICIAN CONSULTED FOR DESIGN?

PREVIOUS CONSULTANT – INSTITUTION/DEPARTMENT:

ESTIMATED NUMBER OF CONSULTING HOURS NEEDED THIS SEMESTER: **5 - 15 hours**

EXPECTED COMPLETION DATE OF PROJECT: **4/30/2025**

IMPORTANT DEADLINE OR DUE DATES RELATED TO YOUR PROJECT: **The survey is supposed to be for beta test before spring break**

THE RESULTS OF THIS RESEARCH WILL PROBABLY BE PUBLISHED AS:

Journal Article

IS THIS RESEARCH SUPPORTED BY A GRANT OR CONTRACT? **No**

If so, give grant/contract title:

GIVE A BRIEF DESCRIPTION OF YOUR RESEARCH INCLUDING:

PURPOSE:

The goal of this survey is to understand the experiences and needs of households who were impacted by the 2025 Palisades Fire and Eaton Fire. This survey will ask about (1) property and household characteristics, (2) your experiences and attitudes when you first returned to your property, (3) property cleanup perceptions and activities taken, (4) your experience and interactions with insurance companies, and (5) unanswered questions and future plans. The households that are sought for participation are those who lived within and adjacent to the fire perimeters.

DESCRIPTION OF VARIABLES TO BE MEASURED:

The survey will have different questions, regarding property characteristics, household characteristics, property impacts and cleaning/remediation, pools and cleaning, safety attitudes, insurance, thinking of the future and perspectives.

The survey is expected to generate large data information that will allow many correlations, for example, the different health symptoms according to the distance of the fire zone, which insurance company provides the best support, what are the biggest concerns in terms of contamination, and much more.

As many statistical correlations we can do, the better it is (for publication purposes).

RESEARCH QUESTIONS THAT YOU WANT TO ADDRESS USING STATISTICAL METHODS:

The hypothesis are:

H: After the fire, most households of standing homes have returned to live on their property

H: After the fire, higher levels of air safety concern were present in the community

H: After the fire, higher levels of beach and ocean safety concern were present in the community

H: After the fire, higher levels of drinking water safety concern were present in the community

H: Households in the fire perimeter have greater levels of concern than others farther away

H: Households with children have greater levels of concern about potential health concerns than persons without children

H: Local information sources will be deemed more credible than state or national information sources

H: Insurance Companies and Remediation Companies for the same Standing Home household do not agree on how to handle/remediate personal items after a fire

H: There is no consensus on what actions were most often taken to clean fire-impacted pools

H: Ash inside the home was primarily visually observed on windowsills and near doors

H: More than 20% of the respondents self-reported health impacts associated with being inside their home after the fire

H: Households that had a EV or powerwall which burned have greater levels of concern about property safety than those households that do not have either an EV or powerwall on their property

H: Domestic workers were asked to clean indoor properties after the fire

H: Domestic workers were asked to clean pools after the fire

H: The majority of household insurance companies will not pay for pool cleaning.

H: Certain insurance companies chose to support specific cleaning activities which others do not

H: Households in the fire perimeter were more likely to self-report health symptoms than those households farther away

H: Households who were displaced were financially impacted to access housing and other critical resources, such as food, water, and personal goods.

H: Households in LA wildfires have greater levels of concern about po

STATISTICAL ISSUES:

The best correlations and statistical approaches to use in the research.

ADDITIONAL INFORMATION YOU THINK WOULD BE HELPFUL:

ATTACHMENTS:

[Attachment in Clients Folder](#)

