**Client 25-039**

**4/02/25 9:30 AM**

**Goal: Journal Article**

**Phase: Design (No data collected)**

**Deadline: 4/30/25**

Background:

* The client is a PhD student in the EEE department who is creating a survey to understand the needs and experiences of households who were impacted by the 2025 LA fires.
* This survey will ask about

1. Property and household characteristics. (MC, integer questions)
2. Experiences and attitudes when participant first returned to their property (MC and select all that apply questions)
3. Property cleanup perceptions and activities taken (MC, select all that apply)
4. Experience and interactions with insurance companies (MC, binary)
5. Unanswered questions and unanswered future plans. (MC, Binary, select all that apply, Likert scale)

* The households and participants who will answer the survey are individuals who lived within and adjacent to the fire perimeters.

Design

* The survey has a variety of questions regarding property characteristics, household characteristics, property impacts and cleaning/remediation, pools and cleaning, safety attitudes, insurance, thinking of the future and perspectives.
* It is expected to generate large data information allowing for many correlations
  + I.e.: 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.
* They are interested in checking and accounting for as many statistical correlations for their journal publication.

Hypotheses:

* 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 client doesn’t know which the best correlations and statistical approaches are to use in the research for this project.

Questions to ask client:

1. Which hypotheses are the most important in this study? She gave like 18 however which ones are she most interested in?
2. What are her specific research questions for this survey.
3. Did she have a specific sample size computed already for this survey design, or does she need power analysis to be completed?