**Research Plan**

1. Introduction:
   1. Provide an overview of climate change scenarios, focusing on RCP 8.5.
   2. Introduce the Mexico-U.S. border region and its historical context.
   3. Establish the link between climate change, migration, and policy responses.
2. Research Question:
   1. Clearly stating the research question:
      1. How will climate change under the RCP 8.5 scenario impact migration patterns and policy responses in the US-Mexico border region, leading to potential bottleneck scenarios in Mexico?
3. Literature Review:
   1. Climate Change and Migration:
      1. Literature on this topic with a focus on the RCP 8.5 scenario.
      2. Identify key theories and concepts relevant to climate-induced migration.
   2. Mexico-U.S. border Region:
      1. Review literature on historical and contemporary migration patterns in the region.
      2. Analyze current policy responses and their effectiveness.
4. Methodology:
   1. Data Collection:
      1. RCP 8.5: Identify relevant climate data sources for the RCP 8.5 scenario, such as the next paper: <https://pubmed.ncbi.nlm.nih.gov/23928946/>
      2. Migration: Gather information from relevant sources, such as: <https://trac.syr.edu/>
      3. Immigration Policy Responses: Collect policy responses from both US and Mexico.
   2. Data Analysis:
      1. Use of statistical methods to analyze climate data and project future scenarios.
      2. Apply qualitative analysis o understand migration patterns and policy responses.
      3. Consider different techniques to anticipate potential bottleneck scenarios.
5. Case Studies/Focalizing (to be considered):
   1. Choose a specific region/state for in-depth case study.
6. Policy Analysis:
   1. Examine current immigration policies and their adaptation to climate-induced migration in both Mexico and U.S.
   2. Analyze Mexico’s capacity to handle increased migration.
   3. Explore policy collaborations between Mexico and U.S.
7. Ethical Considerations:
   1. Consider minimizing bias in the analysis.
8. Results:
   1. Hypothesis:
      1. Provide a conclusive response to the initial hypothesis.
   2. Policy:
      1. Provide concise policy recommendations for both Mexico and U.S.

**Proposed Analysis**

The topic of the study is about how climate change under the RCP 8.5 (high-emissions) scenario will impact migration patterns and policy responses in the US-Mexico border region. In turn, this will create a bottleneck scenario in Mexico, where immigrants may choose to seek refuge or asylum seeker status to remain in Mexico, rather than attempting to cross into the US.

**Description of the Data Needed**

Given the nature of the research, the data needed falls into the category of “Immigration Enforcement: CBP and ICE”. All data provided, ideally, should be in CSV format and have a Timestamp column to adjust accordingly each data point into the time-series model.

The datasets needed are as follows:

1. Border Patrol Arrests (Oct 2007 – Jul 2002)
2. “Inadmissibles” at entry Ports (Oct 2011 – Jul 2023)
3. ICE Arrests (Oct 2014 – May 2018)
4. ICE Detention (March 2015 – July 2019)
5. Detention Facilities (Aung 2019 – Nov 2022)
6. Alternatives to Detention (ATD) (Aug 2019 – Dec 2022)
7. ICE Detainers (Oct 2002 – Sep 2021)
8. ICE Removals (Oct 2002 – Jun 2020)
9. ICE Removals- Under Secure Communities (Nov 2008 – Jul 2020)

**Project Proposed Beginning and End Dates**

The work is set to be done during December 2023 and June 2024.

**List of Collaborators and co’authors with their affiliations**

This thesis will be written exclusively by me, Fernando Corral Lozada, and Asya Magazinnik will be acting as the thesis advisor.