

Statistics Group Assignment - Team 2

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The list of topics for the group assignment:

S.No	Topic Name	Details of the topic	Potential Data to be used	Link for the data (web)	Potential research questions
1.	Nationalism and perception towards globalization	<ul style="list-style-type: none">Looking at whether perceptions of globalization have changed significantly throughout 3 decadesLooks at three types of globalization: (1) economic; (2) social; (3) politicalLooking at whether greater nationalism is associated with more negative perception towards each type of	ISSP 1995 (24 countries), 2003 (34 countries), and 2013 (34 countries)	<ul style="list-style-type: none">1995 – ISSP (gesis.org)2003 – ISSP (gesis.org)2013 – ISSP (gesis.org)	<ol style="list-style-type: none">Have perceptions of globalization changed significantly throughout 3 decades?Is greater nationalism associated with more negative sentiments towards economic, social, and political globalization?Are the relationships (if any) mediated by certain respondent characteristics – such as their income, education or age?

S.No	Topic Name	Details of the topic	Potential Data to be used	Link for the data (web)	Potential research questions
		<p>globalization; nationalism could be defined multiple ways – how close does someone feel with their country, how proud is someone to be a citizen of their country, etc.</p> <ul style="list-style-type: none"> Looking at whether effects are mediated by respondent's characteristics – their income or education levels, for example 			
2.	Minimum wages	OECD Country level panel study	OECD minimum wage, educational attainment, industry wise labour force participation, trade union density. Basically OECD data has everything	https://stats.oecd.org/index.aspx?DataSetCode=RMW	Can increase in minimum wages decrease income inequality

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3.	Sustainable Development				
4.	Economy Recession	-Predict on economy recession in US		https://github.com/westerley/recession_predictR	https://www.kaggle.com/code/andrad-aolteanu/is-a-recession-coming-us-yield-curves-can-tell-us/notebook
	American Dream				

TIMELINES

S. No	Checkpoints	Target date of completion	Date for the group discussion
1	Finalizing the research topic		
2	Gathering all the relevant data		
3	Assessing/Discussing the potential questions for analysis		
4	Assigning roles among the team members		
5	Dividing the project into groups/phases with a timeline for each phase		
6	Import - Data input and manipulation		
7	Tidy - Transform		
8	Tidy - Statistical analysis		
9	Visualization		
10	Graphs		
11	Communication - Presentation		
12	First Draft		
13	Review		

S. No	Checkpoints	Target date of completion	Date for the group discussion
14	Final Draft		
15	Final Submission		

Project grading rubric

1. Organization: 20%
2. Flow of content: 20%
3. Use of visuals/data visualization 20%
4. Content clarity: 20%
5. Depth of content engagement: 20%

11/03/2022

Initial/exploratory analysis first:

- National trends

Basic regression \Rightarrow adding control variables

$$\begin{aligned} values_1 &= \beta_0 + \beta \text{country} + \gamma \text{age} + \gamma \text{agesq} + \gamma \text{gender} + \gamma \text{income} + \gamma \text{education} + \alpha \text{year dummies} \\ 4 &= \beta_0 + 0.3 \text{viet} + 0.9 \text{china} + .7 \text{OTHERS} + 2 \text{age} + \end{aligned}$$

$$\begin{aligned} values_2 &= \beta_0 + \beta \text{country} + \gamma \text{age} + \gamma \text{agesq} + \gamma \text{gender} + \gamma \text{income} + \gamma \text{education} + \alpha \text{year dummies} \\ 5 &= \end{aligned}$$

Assignment 5 - group assignment for final project

1. What is the topic of your final project?

Comparison of American and Asian cultural values across economic, social, political and religious domains.

2. What is your research question for the project?

A. **General research question:** how do Vietnamese, Chinese, Indian and Indonesian values differ from that of the US across economic, social, political and religious domains?

B. **Specific research questions:** In our final project, we aim to answer, but are not limited to, the following questions:

- a. On the economic domain, compared to US citizens, are citizens of the four Asian countries more supportive of:
 - i. income redistribution
 - ii. meritocracy
 - iii. privatization
 - iv. competition?
- b. On the social domain, compared to US citizens, are citizens of the four Asian countries:
 - i. placing higher importance on family in their lives?
 - ii. having lesser tolerance towards marginalized communities (drug addicts, LGBTQ, immigrants/foreign workers, among others)
 - iii. having more patriarchal values towards the role of females in the economy
 - iv. in better condition, both physically and mentally?
 - v. more trusting of people around them?
- c. On the political domain, compared to US citizens, are citizens of the four Asian countries:
 - i. more interested in politics?
 - ii. more politically engaged?
 - iii. In different sides of the political spectrum (in terms of “left” and “right”)?
 - iv. Less in favor of having a democratic political systems?
 - v. Placing less emphasis on human rights?
 - vi. Showing greater pride of being citizens of their countries?
- d. On the religious domain, compared to US citizens, are citizens of the four Asian countries

- i. Putting more importance on “God” in their lives?
- ii. Practice their religion more (by attending religious services more often)?
- iii. Showing lesser acceptance of other religions other than their own?

3. Please provide a short description and background of the topic and question and how you plan to study it.

- **Topic background:** The project aims to investigate the differences in various types of “values” of the priorly mentioned countries (China, India, Indonesia, and Vietnam) vis-a-vis the United States. We look at several specific domains: social, economic, political, and religious domains.. The motivation for pursuing this research question is largely based on our experiences as international students in the US. We have often come across situations wherein our values, beliefs or understanding might not fully align with that of our American peers. We want to explore whether our anecdotal experiences in such cultural differences also hold true in aggregate data. Further, we are choosing to focus on these four countries because these are the home countries of our group members, and because these countries are also among the largest countries in terms of population size.
- **Research plan:** We aim to undertake this mini-research project by using data from the **World Values Survey** (WVS), a survey that has been held in more than 50 countries, which is aimed at gauging cultural differences across those countries. The WVS contains respondents’ perceptions on several important aspects of life, including social values, attitudes, stereotypes, economic values, political interests, religious values, happiness and well-being, among others.
- **Proposed method:** We can use two types of methods for this final project:
 - a. **Descriptive analysis:** We can cross-tabulate the respondents’ answers to the survey questions, differentiating across countries and presenting them in graphs
 - b. **Quantitative analysis:** We will do multivariate regressions using the survey perception answers as the dependent variables, and having country dummy variables as the main independent variables. We will also control for individual-level demographics such as their age, gender, education, and income levels.

4. What data will you use?

We plan to use data from the World Values Survey (WVS), a social survey that is held across more than 50 countries. The survey was administered by the World Values Survey Association

5. Provide a description of the data you will use including what kind of data it is, where it comes from, how it is structured, and which variables are of interest to you for your project at this point in time.

The WVS data is a cross-country survey dataset that contains data for respondents of more than 50 countries. The survey primarily elicits respondents' views on multiple aspects of life, including (but not limited to) economic values, social values, views on various types of political participation and political regimes, and the importance of religion in the respondent's life. Each row in the dataset represents different individuals surveyed at a specific WVS round.

For our project, we will primarily focus on several key questions from the following modules:

1. Social Values, Attitudes and Stereotypes
 - a. Q1: How important is family in your life?
 - b. Q18-Q26: Types of groups that you would like to have as your neighbors
 - c. Q28-Q33: Perceptions on women's role in the society
2. Happiness and Well-Being
 - a. Q46: Taking all things together, would you say you are happy?
 - b. Q47: How would you describe your state of health these days?
3. Social Capital, Trust, and Organizational Membership
 - a. Q58-63: How much your trust different types of people from different groups?
4. Economic Values
 - a. Q106: Do you agree that incomes should be made more equal?
 - b. Q107: Do you agree that private ownership of business and industry should be increased?
 - c. Q109: Do you agree that more competition is good?
 - d. Q110: Do you agree that in the long run, hard work usually brings a better life?
5. Religious Values
 - a. Q164: How important is God in your life?
 - b. Q171: How often do you attend religious services these days?
 - c. Q170: Do you agree that the only acceptable religion is your religion?
6. Political Interest and Political Participation
 - a. Q199: How interested would you say you are in politics?
 - b. Q200: When you get together with your friends, would you say you discuss political matters frequently, occasionally or never?

c. Q209-Q212: Which of the following forms of political action have you ever done?

7. Political Culture and Political Regimes

- a. Q235: Would you say that having a strong leader who does not have to bother with parliament and elections is good?
- b. Q238: Would you say that having a democratic political system is good?
- c. Q240: In political matters, people often talk of “the left” and “the right”. How would you place your views on this scale, generally speaking?

8. Demographics

We'll be using these variables mainly as control variables:

- a. Q260: Respondent's sex
- b. Q262: Respondent's age
- c. Q263: Respondent's immigrant status
- d. Q270: Respondent's household size
- e. Q273: Marital status
- f. Q274: Whether having kids
- g. Q275: Education level
- h. Q279: Employment status
- i. Q288: 1-10 perceived income class category
- j. Q289: Religion

6. What is your timeline for the next few weeks in order to be fully prepared to present on 12/5/22?

Week of 10/31/2022: Question formulation, preliminary discussion, timeline estimation, role allocation

Week of 11/07/2022: Literature review, create outline, finalize the research question and details, data collection and processing

Week of 11/14/2022: Exploratory analysis and regression analysis

Week of 11/21/2022: Evaluation of findings, visualization of key insights, discussion of further extensions of the research

Week of 11/28/2022: Consult and finish up the project, presentation preparation.

