

The Association Between Political Beliefs and **Support for Climate Change Policies**



Aoife Reynolds, Quantitative Analysis Center, Wesleyan University

Introduction

- Only half of Americans think their actions influence climate change while 70% of those who believe in climate change admit individuals need to make lifestyle changes to impact climate change (AP-NORC, 2022).
- Social identity, i.e, education, race, etc., are believed to be influential in determining a person's value-belief system and thus support for climate change policy (Fielding and Hornsey, 2016).
- While the association has been well established in the literature, less is known about different types of policy support, or which social identities play
- One of the most important determinant factors consistently implicated in the support for climate policy is political affiliation (Bumann, 2021).
- People with higher human capital levels, or higher education levels, are believed to be more forward-looking and thus more considerate of climate change conditions (World Bank, 2023).

Methods

- Respondents (n = 429) were interviewed and recorded via a telephone survey on landlines and cell phones by the Muhlenberg College Institute of Public Opinion.
- The sample from the National Surveys on Energy and Environment (NSEE) represents the civilian adult population of the United States.

- Political party was assessed by asking participants to pick a party they identify most with: Democrat, Conservative, Other Party, and Independent
- Support for climate change policies was evaluated through a questionnaire that asked participants "For each idea that I mention please tell me if you strongly support, somewhat support, somewhat oppose or strongly oppose the proposed [policies] including ways states can reduce greenhouse gas emissions, requiring automakers to increase the fuel efficiency of their vehicles, increasing taxes on all fossil fuels, allowing cap and trade and requiring a set portion of electricity to come from renewables. This variable was coded into an index from one to sixteen.
- Income and education were asked directly and coded into a categorical variable ranging from less than \$20, 000 to over \$100, 000 of family income or less than high school to above college, respectively.

Research Questions

- •What is the association between political party and support for climate change policies?
- Does the association between political party and support for climate change policies differ when controlling for income and education?

Results

Univariate

- 31% of respondents identified as democratic, 25% as conservative and 35% independent
- A total of 55% attained a college degree or higher, with 14% only having finished high school
- 20% of respondents fall below the poverty line (\$40, 000 family income or below), while 33% make over \$100, 0000

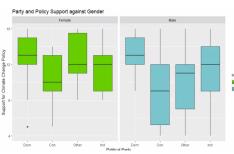
- An ANOVA analysis showed that among U.S. adults, there appears to be a significant relationship between support for climate change policies among different political parties (P = 7.46e-16). This relationship is visualized in Figure
- A second ANOVA analysis shows that among U.S. adults, education does not affect support for climate change policy.
- A further post-hoc test reveals there is a statistically significant difference between democrats and conservatives (P= 0.000) and conservatives and independents (P=0.0000072).
- A third ANOVA analysis shows that among U.S. adults, gender does affect support for climate change policy (P = 0.00351). (Figure 2).

- There was no statistically significantly differences between any education level in terms of level of support for climate change policies
- There was no statistically significantly differences between any income level in terms of level of support for climate change policies
- There was a statistically significant difference of those who identify as "Other Party" between Male and Females

Political Party vs Support for Climate Change Policies

Multivariate (cont.)

In each education level, the predicted number of global warming policies is not different between those who are democrats, conservatives, or independents.



Discussion

- Based on the present analysis, there does not seem to be a significant relationship between education and support for climate change
- Although prior research has suggested there is a significant relationship between income and climate change policy support, this sample may not be accurately representative of the population (refer to univariate analysis).
- When testing for a level of statistical significance for education, there were no representative population for conservatives or other party-identifiers with less than a high school degree.
- Census data shows that 28% of people have a high school degree as their highest level of education. Furthermore, other research shows that only 18% of Americans make more than \$100k a year (Census, 21).
- Notably, the present findings reflect a strong difference in policy support between different political groups but does not when considering education or income
- Further research is needed to determine whether support for climate change policies are associated with education or income levels.

"The Untapped Potential of Education in the Battle against Climate Change." World Bank Blogs, https://blogs.worldbank.org/developmenttalk/untapped-potential-education-battle-against-clim

change. AP-NORC Center for Public Affairs Research. (August 2022). "More Americans are pessimistic about the impact they can have on climate change compared to three years ago."