

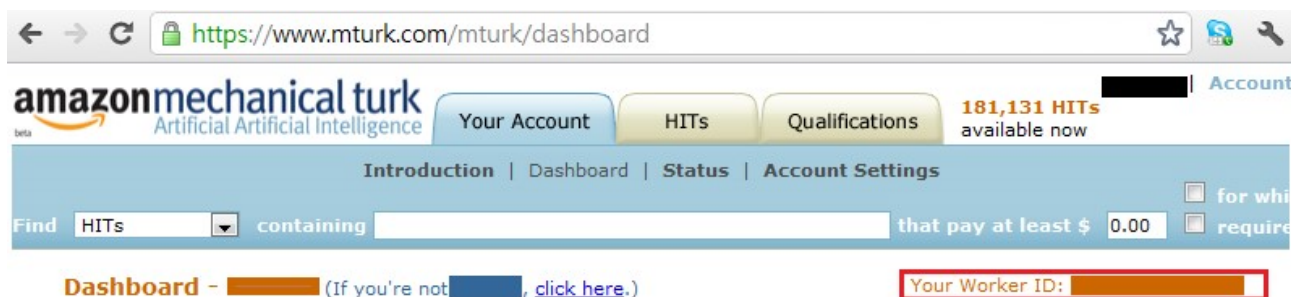
welcome

To begin, please enter your Amazon Mechanical Turk WorkerID here:

(Please see below for where you can find your WorkerID.)

Your WorkerID starts with the letter A and has 12-14 letters or numbers. It is NOT your email address. If we do not have your correct WorkerID we will not be able to pay you.

Note that your WorkerID can be found on your dashboard page:



In which state do you currently reside?

Intro

CARNEGIE MELLON UNIVERSITY

Consent for Participation in Research

Individual decision making study

Principal Investigators: Giovanna d'Adda, Yu Gao, Russell Golman and Massimo Tavoni

This is a study being conducted by researchers at Carnegie Mellon University and Milan Polytechnic. We are studying individual decision making. In order to participate in this online study, you must satisfy the following conditions:

1. You are 18 or older
2. You are currently at home
3. You have AC in your home, and **your AC has a thermostat** for controlling the temperature
4. You have a camera and are willing and able to **upload a photo of your AC** display.

We will use the information that our subjects provide in published articles or academic presentations, but no information regarding your personal identity or your involvement as a research subject will be published or revealed.

Information collected during this study will be retained by these researchers and may be used in future research projects, but this information will not be linked to you in any way. Please be aware that any work performed on Amazon MTurk can potentially be linked to information about you on your Amazon public profile page, depending on the settings you have for your Amazon profile. We will not be accessing any personally identifying information about you that you may have put on your Amazon public profile page. We will store your mTurk worker ID separately from the other information you provide to us.

What is the temperature outdoors right now (F)? If you don't know, you can check the weather on your phone or on the web.

At what temperature is your AC currently set (F)?

Treatment: cost of action

SET YOUR THERMOSTAT 1 DEGREE HIGHER

Did you know? Setting your thermostat **EVEN JUST 1 DEGREE HIGHER** on a hot day helps you save energy and money, and reduce your emissions of greenhouse gases, such as CO₂, which contribute to global warming.

SET YOUR THERMOSTAT 5 DEGREES HIGHER

Did you know? Setting your thermostat **5 DEGREES HIGHER** on a hot day helps you save energy and money, and reduce your emissions of greenhouse gases, such as CO₂, which contribute to global warming.

Treatment: moral obligation



We will shortly ask you to send us a picture of your AC thermostat or AC remote control display.

Naomi Swerdlow will observe your survey responses and the picture of your AC thermostat. Naomi volunteers with the Sierra Club, the nation's largest and most influential grassroots environmental organization. She cares about the environment because she believes, "Everyone deserves clean water and clean air. People need to stay healthy and breathe free. Our planet needs to stay nice for our future."



We will shortly ask you to send us a picture of your AC thermostat or AC remote control display.

Perception of impact

On a scale of 1-10, in your best guess, how much impact does your AC thermostat setting have on the environment?

1. No impact	2	3	4	5	6	7	8	9	10. Very large impact
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Guess how much you would reduce your yearly CO2 emissions (in pounds) if you raised your thermostat setting by 1 degree F for 8 hours a day from its normal setting. (For reference, recycling 3 aluminum cans reduces your CO2 emissions by 1 pound.)

Please enter an integer number between 0 and 1000

Guess how much you would reduce your yearly CO2 emissions (in pounds) if you raised your thermostat setting by 5 degrees F for 8 hours a day from its normal setting. (For reference, recycling 3 aluminum cans reduces your CO2 emissions by 1 pound.)

Please enter an integer number between 0 and 1000

Info avoidance

Would you like to know more about the environmental impacts of AC use and estimate the reduction in your CO₂ emissions from raising your thermostat setting?

- ☐ Yes
- ☐ No

MAIN SOURCES OF AC'S IMPACT ON THE ENVIRONMENT

Energy Use

In the Annual Energy Outlook 2019, the U.S. Energy Information Administration (EIA) estimates that the residential sector's electricity use for cooling was about 214 billion kWh in 2018, which was equal to about 15% of total residential sector electricity consumption and 5% of total U.S. electricity consumption (for more details, see [here](#)).

The electricity generated to power air conditioning carries both global and personal health consequences. In burning fossil fuels such as coal to supply electricity to homes and workplaces, power plants discharge clouds of soot and other pollutants into the atmosphere. Among these are mercury and carbon dioxide (CO₂). Air conditioner use in the U.S. results in an average of about 100 million tons of CO₂ emissions from power plants every year.

HCFCs

Formerly used as cooling agents, ozone-depleting chlorofluorocarbons (CFCs) have been replaced by hydrochlorofluorocarbons (HCFCs), which deplete 95 percent less ozone. However, booming demand for air conditioners in hot climates such as India and China has upped the chemical's output in developing

countries 20 to 35 percent each year, causing damage at an alarming rate and possibly setting back ozone recovery by 25 years. In industrial countries, HCFCs are being replaced with ozone-safe cooling agents and will be banned in the U.S. by 2010. But HCFCs will be allowed in developing countries through 2040, and because they're still cheaper to use than ozone-safe chemicals, production in developing countries is expected to increase fivefold by 2010.

WHAT IMPACT DO YOUR ACTIONS HAVE?

Beyond the average impact of AC use and of setting AC thermostats higher, you can estimate the reduction in your CO₂ emissions from raising your thermostat setting, thanks to the EPA calculator that you can find at this [link](#).

These page timer metrics will not be displayed to the recipient.

First Click: *0 seconds*

Last Click: *0 seconds*

Page Submit: *0 seconds*

Click Count: *0 clicks*

Action

Are you willing to raise the temperature of your AC by 1 degree F?

- ☐ Yes
- ☐ No

Are you willing to raise the temperature of your AC by 5 degrees F?

- ☐ Yes
- ☐ No

We now request that you take and upload a photo of your AC thermostat or your AC remote control. Please note that your compensation does not in any way depend on the temperature setting you choose.

INSTRUCTIONS FOR SENDING A VALID PHOTO:

1. Make sure that the temperature, at which your thermostat is set, is clearly visible on the display you are taking a picture of
2. Take a photo of the display and upload it below. Try to match the following photo as closely as possible:



Please indicate here the temperature reported on your AC thermostat in the picture that you uploaded.

Survey

Are you alone in the house?

- ☐ Yes
- ☐ No

At what temperature do you typically set your AC on a hot day(F)?

Do you normally raise your AC temperature or turn it off completely when you leave the house?

- ☐ Turn off AC
- ☐ Raise AC temperature
- ☐ Do nothing (leave on at unchanged temperature)

Is your AC energy star?

- ☐ Yes
- ☐ No
- ☐ I don't know

Do you try to limit AC use?

- ☐ Yes
- ☐ No

What is your ZIP code?

What is your gender?

- ☐ Male
- ☐ Female

What year were you born?

Do you have children?

- ☐ Yes
- ☐ No

What is your marital status?

- ☐ Single, never married
- ☐ Married or domestic partnership
- ☐ Widowed
- ☐ Divorced
- ☐ Separated

What is the highest level of education that you have completed?

- ☐ Some high school
- ☐ High school
- ☐ Some college
- ☐ Associate's degree
- ☐ Bachelor's degree
- ☐ Master's degree
- ☐ Professional or doctoral degree

Please indicate your approximate yearly household income before taxes. (Include total income of all adults living in your household.)

- ☐ Under \$25,000
- ☐ \$25,001 - \$49,999
- ☐ \$50,000 - \$74,999
- ☐ \$75,000 - \$99,999
- ☐ \$100,000 - \$149,999
- ☐ \$150,000 and over

Which political party do you most strongly support and/or identify with?

- ☐ Democrat
- ☐ Republican
- ☐ Independent
- ☐ Libertarian
- ☐ Green
- ☐ Socialist
- ☐ Tea Party
- ☐ Other
- ☐ None

Please indicate to what extent you agree with the following statements (1= strongly disagree ; 7= strongly agree)

	1. Strongly disagree	2. Disagree	3. Somewhat disagree	4. Neither agree nor disagree	5. Somewhat agree	6. Agree	7. Strongly agree
a. Considering the ways people grossly misrepresent themselves, it's hardly a sin to inflate your own accomplishments a bit.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. People shouldn't be held accountable for doing questionable things when they were just doing what an authority figure told them to do.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. People can't be blamed for doing things that are technically wrong when all their friends are doing it too.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Recently you may have noticed that global warming has been getting some attention in the news. Global warming refers to the idea that the world's average temperature has been increasing over the past 150 years, may be increasing more in the future, and that the world's climate may change as a result.

What do you think? Do you think that global warming is happening?

- ☐ Definitely not
- ☐ Probably not
- ☐ I don't know
- ☐ Probably yes
- ☐ Definitely yes

Assuming global warming is happening, do you think it is ...

- ☐ Caused mostly by human activities
- ☐ Caused mostly by natural changes in the environment
- ☐ Other
- ☐ None of the above because global warming isn't happening

How much do you personally worry about global warming?

- ☐ Not at all
- ☐ Only a little
- ☐ A fair amount
- ☐ A great deal

How often do you play the lottery?

- ☐ Daily
- ☐ Weekly
- ☐ Monthly
- ☐ Yearly
- ☐ Rarely (only a few times in my life)
- ☐ I've never done it

Now I will briefly describe some people. Would you please indicate for each description whether that person is very much like you, like you, somewhat like you, not like you, or not at all like you? (Code one answer for each description):

	Very much like me	Like me	Somewhat like me	A little like me	Not like me	Not at all like me
a. It is important to this person to have a good time; to "spoil" oneself.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
b. It is important to this person to do something for the good of society.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
c. It is important to this person to always behave properly; to avoid doing anything people would say is wrong.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
d. Looking after the environment is important to this person; to care for nature and save life resources.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

For this study, it was important that you paid attention to all the descriptions and carefully read the question text. From the choices below, please select the city that begins with the letter B to indicate that you have been reading the questions.

- ☐ San Francisco
- ☐ New York
- ☐ Baltimore
- ☐ Chicago
- ☐ Pittsburgh

Did any part of this survey seem familiar to you?

- ☐ Yes
- ☐ No

Please explain what part of the survey seemed familiar to you and why it seemed familiar:

Do you have a guess for what the research question of this survey is?

