AV_Perspective_E12_separate measures for self [others] and AV

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consent **Informed Consent**

 Participation is voluntary
 It is your choice whether or not to participate in this research. If you choose to participate, you may change your mind and leave the study at any time. Refusal to participate or stopping your participation will involve no penalty or loss of benefits to which you are otherwise entitled.

 What is the purpose of this research?
 The purpose of this research is to examine human visual performance and judgments. All data from this experiment are gathered for scientific purposes and will contribute to our eventual understanding of brain and visual function. These data may be published in scientific journals so that other researchers may have access to these data.

 How long will I take part in this research?
 Your participation will take approximately 15 minutes to complete.

 What can I expect if I take part in this research?
 As a participant, you will be asked to look at images presented on a video display and give responses with key presses or movements of a mouse pointing device. Your response may involve responding as quickly as you can, memorizing what you saw, making a judgment, or completing a questionnaire. You will also be asked to complete a demographics form.

 What are the risks and possible discomforts?
 If you choose to participate, the effects should be comparable to those you would experience from viewing a computer monitor for 15 minutes and using a mouse or keyboard, e.g., eye fatigue. You are free to take breaks throughout the session. Some of the images and stories are mildly emotional, and some of the written stories are disgust-inducing.

 Will I be compensated for participating in this research?
 You will be compensated $2.00 for this study. You will still receive payment if you withdraw early.

 If I take part in this research, how will my privacy be protected? What happens to the information you collect?
 Your participation in this experiment will remain confidential, and your identity will not be stored

with your data.

If I have any questions, concerns or complaints about this research study, who can I talk to?

The researcher for this study is Julian De Freitas who can be reached at 626.559.6401; #161 Morgan Hall, 15 Harvard Way, Boston MA, 02163; jdefreitas@hbs.edu. If you have questions, concerns, or complaints,   If you would like to talk to the research team,   If you think the research has harmed you, or If you wish to withdraw from the study.   This research has been reviewed by the Committee on the Use of Human Subjects in Research at Harvard University. They can be reached at 617-496-2847, 1350 Massachusetts Avenue, Suite 935, Cambridge, MA 02138, or cuhs@harvard.edu for any of the following: If your questions, concerns, or complaints are not being answered by the research team,   If you cannot reach the research team,   If you want to talk to someone besides the research team, or   If you have questions about your rights as a research participant.

○ I agree (1)

○ I don't agree (2)

End of Block: consent

Start of Block: attention_checks

att_1 This is an attention check.

John is 45 years old and Paul is 42 years old. Who is younger?

○ John (1)

○ Paul (4)

○ Neither John nor Paul (2)

○ Both John and Paul (3)

att_2 What color is the sky when it is clear?

Please make sure to select green, so that we know you're paying attention.

○ Green (1)

○ Blue (2)

safety **Please carefully read the following background to the current study**

More than 90% of all accidents are caused by human error.

According to experts, one of the main benefits of self-driving cars is that transportation will become much safer for all Americans. Currently, 100 people die on American roads every day, and many more are injured.

Self-driving cars will specifically eliminate the human factor - distractions, drunk driving and simple human error while driving - leading to far fewer accidents and safer roads.

- -

comp_0 **According to what you've just read, which of the following is true?**

○ Self-driving cars will be more safe than regular vehicles (1)

○ Self-driving cars will be less safe than regular vehicles (2)

Q143 Unfortunately, you have failed to answer at least one of the attention check questions correctly and have been redirected to the end of the survey.
Please click the button to below to be redirected back to Prolific and register your submission.

vign
Below is a table depicting 6 possible types of vehicles. The different types are based on how many driving tasks are controlled by the human driver ('HUMAN') versus the self-driving system ('MACHINE').

In level 1, the <u>human</u> controls all driving tasks, whereas in level 6, the <u>machine</u> controls all driving tasks. The levels in-between differ in which driving tasks are controlled by the human versus the machine.

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pref_you **Imagine that automobile companies are selling vehicles of all types at the same price.**

Which level would **you** prefer to buy?

○ 1 (1)

○ 2 (2)

○ 3 (3)

○ 4 (4)

○ 5 (5)

○ 6 (6)

---

pref_you_explain **In one sentence, please explain why you chose this particular level.**

_____

---

purchase_you **Imagine that automobile companies are selling automated vehicles with Level 6 automation (fully automated) in compliance with road laws and regulations.**

How much would **you** prefer to buy a Level 6 (fully automated) vehicle?

	Low preference No preference High preference
	0 10 20 30 40 50 60 70 80 90 100
()	

vign

comp_2 **You were shown a table. What did the table represent?**

○ The number of typical daily tasks controlled by humans vs. machines (1)

○ Different types of vehicles based on how many driving tasks are controlled by humans vs. machines (2)

○ Six people's preferences for humans vs. machines (3)

comp_3 **What were the values for vehicle type #1 (the one at the top of the table)?**

○ MACHINE, HUMAN, HUMAN, MACHINE (1)

○ HUMAN, MACHINE, MACHINE, HUMAN (2)

○ MACHINE, MACHINE, MACHINE, MACHINE (3)

○ HUMAN, HUMAN, HUMAN, HUMAN (4)

scale_you **Please rate the extent to which you agree with the following statements.**

AV = automated vehicle.

---

safety_you **I am a safe driver.**

	Completely disagree	Neither agree nor disagree	Completely agree
	0 10 20 30 40 50 60 70 80 90 100		
()			

---

safety_AV_1 **AVs are safe drivers.**

	Completely disagree	Neither agree nor disagree	Completely agree
	0 10 20 30 40 50 60 70 80 90 100		
()			

---

trust_you **I would be willing to trust my own driving ability.**

	Completely disagree	Neither agree nor disagree	Completely agree
	0 10 20 30 40 50 60 70 80 90 100		
()			

trust_AV_1 **I would be willing to trust an AV's driving ability.**

	Completely disagree	Neither agree nor disagree	Completely agree
	0 10 20 30 40 50 60 70 80 90 100		
()			

End of Block: av_you

Start of Block: mediators_you

agree **Please rate the extent to which you agree with the following statements.**

identity_you **Being a driver is relevant to <u>my identity</u>**

	Not at all	Very much
	0 10 20 30 40 50 60 70 80 90 100	
1 ()		

skills_you **It is important to maintain <u>my driving skills</u> over time.**

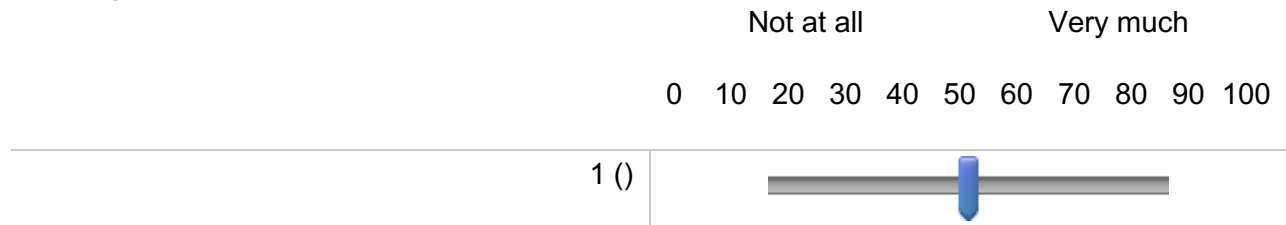|	Not at all	Very much
	0 10 20 30 40 50 60 70 80 90 100	
1 ()		

control_you **It is important for <u>me</u> to have complete control over <u>the vehicle</u> during driving.**

	Not at all									Very much
	0 10 20 30 40 50 60 70 80 90 100

1 ()

vign
Below is a table depicting 6 possible types of vehicles. The different types are based on how many driving tasks are controlled by the human driver ('HUMAN') versus the self-driving system ('MACHINE').

In level 1, the <u>human</u> controls all driving tasks, whereas in level 6, the <u>machine</u> controls all driving tasks. The levels in-between differ in which driving tasks are controlled by the human versus the machine.

----

pref_others **Imagine that automobile companies are selling vehicles of all types at the same price.**

Which level would you prefer <u>**other people**</u> to buy?

○ 1 (1)

○ 2 (2)

○ 3 (3)

○ 4 (4)

○ 5 (5)

○ 6 (6)

pref_others_explain **In one sentence, please explain why you chose this particular level.**

_____

purchase_others **Imagine that automobile companies are selling automated vehicles with Level 6 automation (fully automated) in compliance with road laws and regulations. .**

How much would you prefer **other people** to buy a Level 6 (fully automated) vehicle?

	Low preference	No preference	High preference
	0 10 20 30 40 50 60 70 80 90 100		
()			

scale_others **Please rate the extent to which you agree with the following statements.**

AV = automated vehicle.

safety_others **Other drivers are safe drivers.**

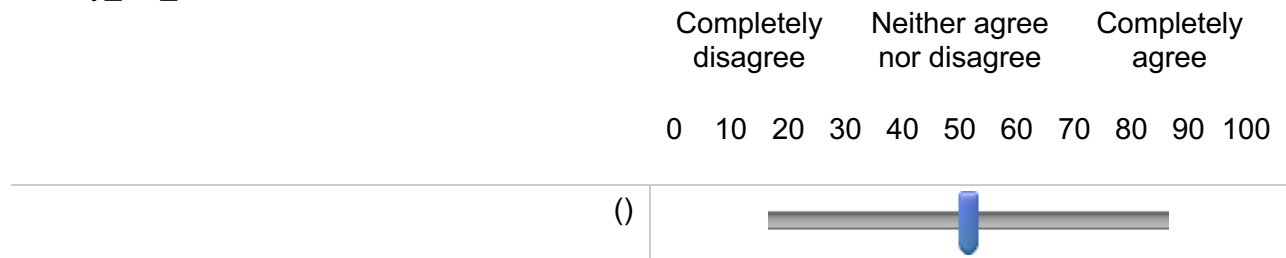|	Completely disagree	Neither agree nor disagree	Completely agree
	0 10 20 30 40 50 60 70 80 90 100		
()			

safety_AV_2 **AVs are safe drivers.**

	Completely disagree	Neither agree nor disagree	Completely agree
	0 10 20 30 40 50 60 70 80 90 100		
()			

---

trust_others **I would be willing to trust the driving ability of other human drivers.**

	Completely disagree	Neither agree nor disagree	Completely agree
	0 10 20 30 40 50 60 70 80 90 100		
()			

---
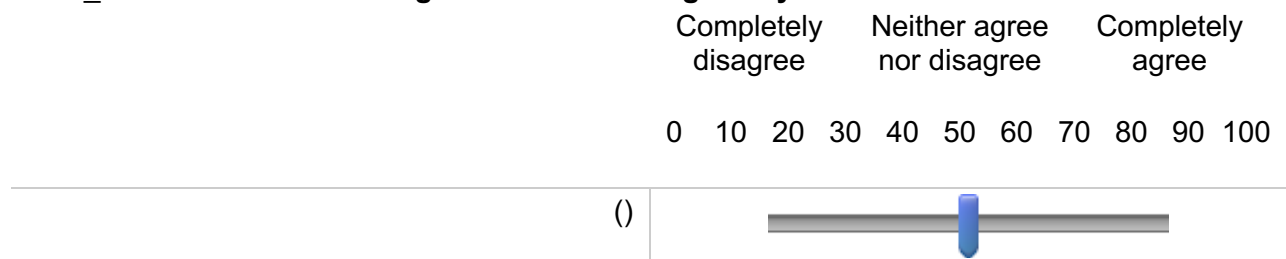
trust_AV_2 **I would be willing to trust an AV's driving abilities.**

	Completely disagree	Neither agree nor disagree	Completely agree
	0 10 20 30 40 50 60 70 80 90 100		
()			
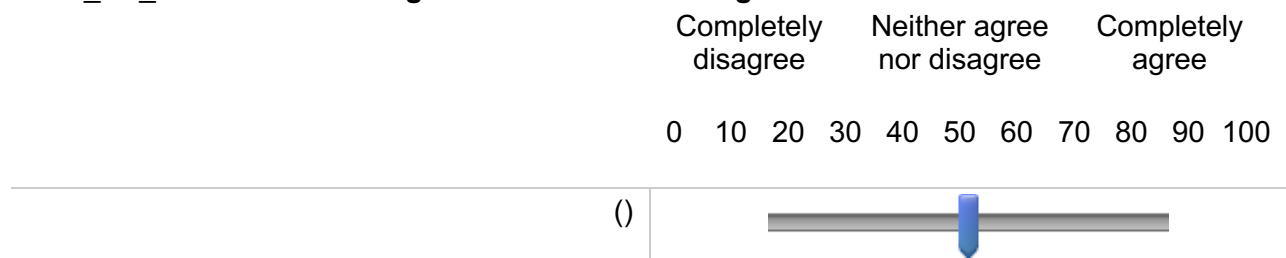
End of Block: av_others

Start of Block: mediators_others

agree2 **Please rate the extent to which you agree with the following statements.**

identity_others **Being a driver is relevant to <u>other people's</u> identity.**

Not at all   Very much

0   10   20   30   40   50   60   70   80   90   100

1 ()

skills_others **It is important <u>to other drivers</u> that they maintain <u>their driving skills</u> over time.**

Not at all   Very much

0   10   20   30   40   50   60   70   80   90   100

1 ()

control_others **It is important to <u>other drivers</u> that <u>they</u> have complete control over <u>their vehicle</u> during driving.**

Not at all   Very much

0   10   20   30   40   50   60   70   80   90   100

1 ()

End of Block: mediators_others

Start of Block: demographics

gender What is your gender?

○ Male (1)

○ Female (2)

○ Prefer not to disclose (3)

○ Other (please specify) (4)

_____

ethnicity What is your ethnicity?

○ Black or African American (1)

○ Asian (2)

○ White or European (3)

○ Hispanic or Latino (4)

○ Mixed (5)

○ Other (please specify) (6)

_____

age What is your age (in years)?

_____

education Please indicate the highest level of education completed.

- ○ High School or Equivalent (1)

- ○ Vocational/Technical School (2 year) (2)

- ○ Some College (3)

- ○ College Graduate (4 year) (4)

- ○ Masters Degree (MS) (5)

- ○ Doctoral Degree (PhD) (6)

- ○ Professional Degree (MD, JD, etc.) (7)

- ○ Other (please specify) (8)

_____

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license **Do you have a driving license?**

- ○ Yes (1)

- ○ No (2)

---

dr_history **For how many years have you been driving?**

	0 10 20 30 40 50 60 70 80 90 100
()	

---

ai_knowledge **How much would you say you know about self-driving cars?**

Very little   A lot

0   10 20 30 40 50 60 70 80 90 100

()	

code **SECRET COMPLETION CODE: 3YNNiuoomqNF**

 Please ENTER THE COMPLETION CODE into CloudResearch to complete the HIT.

 DO NOT FORGET TO CLICK THE NEXT BUTTON AT THE BOTTOM OF THIS PAGE TO REGISTER YOUR SUBMISSION