AV Scenarios - Proj 1 - Counterfactuals_v2

Start of Block: informed_consent

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 7 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 7 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 $0.5 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.

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consent_q Do you consent

- ○ Yes (1)
- ○ No (2)

End of Block: informed_consent

Start of Block: attention_checks

JS

att1 This is an attention check. **John is taller than Paul. Who is shorter?**

- ○ John (1)
- ○ Paul (2)
- ○ Neither John nor Paul (3)
- ○ Both John and Paul (4)

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att2 **What color is grass?**

The fresh, uncut grass, not leaves or hay. Please make sure to select purple, so that we know you're paying attention.

- ○ Green (1)
- ○ Purple (2)

End of Block: attention_checks

Start of Block: failed_attention_check

failed_checks You failed one of the attention checks. Thanks for considering the surveys!

End of Block: failed_attention_check

Start of Block: scenario

av_instruction
In this study, you will evaluate blame and negligence in a traffic accident scenario.

On the next page, you will watch an animated video of a traffic scenario depicted below. The video shows a four-way intersection in which the driver of Vehicle A runs a stop sign and strikes Vehicle B, seriously injuring Vehicle B's occupant. **Vehicle B is a fully autonomous robocar, which means that it is driven by a computer algorithm. The human occupant of Vehicle B cannot control the vehicle at all.**

Vehicle A is depicted in purple and Vehicle B is depicted in blue.

Page Break

JS

video_av Please watch the following video. As a reminder, the video depicts an intersection in which the driver of Vehicle A runs a stop sign and strikes Vehicle B, seriously injuring its occupant. **Vehicle B is a fully autonomous Robocar, which means that it is driven by a computer algorithm.** After you see the clip once to get a feel for it, you will see it again and answer a few questions about the events that unfolded:

Q88 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

Page Break

JS

vid2_av Here is the video one more time:

Q84 Timing
First Click (1)
Last Click (2)
Page Submit (3)
Click Count (4)

End of Block: scenario

Start of Block: questions_intro

Q148
Now, please answer the questions below about the video you just saw. When answering the questions, please refer to the labels on the image below. **Recall that Vehicle B is a fully autonomous robocar, which means that it is driven by a computer algorithm, and its human occupant has no control of the vehicle.**

End of Block: questions_intro

Start of Block: countf

countf

After the accident, the occupant of Vehicle B often thought and often said “If only…”

Please think about how things could have gone differently if, instead of being a passenger of the Autonomous Vehicle B, the human occupant of Vehicle B had been driving a **regular human-driven** vehicle instead. That is, imagine how things could have turned out differently if the human occupant had had **full control** over Vehicle B.

In the textbox below, please describe how things could have gone differently, starting the sentence with "If the human occupant of Vehicle B had been driving a regular vehicle instead, then..."

End of Block: countf

Start of Block: questions_1

vA_sue_AV

Please rate the extent to which you agree with the following statement (0=completely disagree, 100=completely agree):

How much do you agree: It would be reasonable to sue the **driver of Vehicle A** for the serious injuries sustained by the occupant of Vehicle B.

	Completely disagree				Neither agree nor disagree					Completely agree
	0	10	20	30	40	50	60	70	80	90	100
1 ()											

Page Break

vB_sue_AV

Please rate the extent to which you agree with the following statement (0=completely disagree, 100=completely agree):

How much do you agree: It would be reasonable to sue the **manufacturer of Vehicle B** for the serious injuries sustained by the occupant of Vehicle B.

	Completely disagree / Neither agree nor disagree / Completely agree 0 10 20 30 40 50 60 70 80 90 100
1 ()	

Page Break

defective_AV

Please rate the extent to which you agree with the following statement (0=completely disagree, 100=completely agree):

How much do you agree: **Vehicle B** is defective.

	Completely disagree / Neither agree nor disagree / Completely agree 0 10 20 30 40 50 60 70 80 90 100
1 ()	

End of Block: questions_1

Start of Block: questions_2

Q122
Please answer one more set of questions about the video below. Again, please refer to the following image when answering the questions. **Recall that Vehicle B is a fully autonomous robocar, which means that it is driven by a computer algorithm.**

Page Break

capability_AV

How much do you agree: **Vehicle B** should have been able to avoid this accident.

	Completely disagree				Neither agree nor disagree				Completely agree		
	0	10	20	30	40	50	60	70	80	90	100
1 ()											

End of Block: questions_2

Start of Block: AV_superhuman

superhuman Please rate the extent to which you agree with the following statement: Autonomous robocars should be more aware, more attentive and more reactive than human drivers.

	Completely disagree				Neither agree nor disagree				Completely agree		
	0	10	20	30	40	50	60	70	80	90	100
1 ()											

End of Block: AV_superhuman

Start of Block: comprehension

comp1 **Which of the following was true about Vehicle B?**

- ○ Vehicle B was a Robocar, which means that it was driven by a computer algorithm rather than a human being. (1)
- ○ Vehicle B was a large truck (2)
- ○ None of the above (3)

comp_accident **Which of the following was true about the video?**

- ○ Vehicle A ran a stop sign (1)
- ○ Vehicle B ran a stop sign (2)

End of Block: comprehension

Start of Block: demographics

ai_familiarity **Relative to the average person, how familiar are you with autonomous vehicle accident prevention algorithms?**

No knowledge — Expert-level knowledge

0 10 20 30 40 50 60 70 80 90 100

()

liab_familiarity **Relative to the average person, how familiar are you with the laws regarding who is at fault in a car accident?**

No knowledge — Expert-level knowledge

0 10 20 30 40 50 60 70 80 90 100

()

gender What is your gender?

- ○ Male (1)
- ○ Female (2)
- ○ Prefer not to disclose (3)
- ○ Other (please specify) (4) _____

age What is your age (in years)?

_____

edu What is the highest level of education you have 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) _____

End of Block: demographics