

## Self-driving cars survey questionnaire

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**Citation to *this Version*:** Wang, Sicheng, Jiang, Zhiqiu, Noland, Robert B. & Mondschein, Andrew S. *Self-driving cars survey questionnaire*, 2018. Retrieved from <http://dx.doi.org/doi:10.7282/t3-9d68-0k53>.



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## Self-Driving Cars Survey

Self-driving cars are being developed by several technology companies and are expected to be available for purchase in a few years. These cars will offer large safety improvements and allow people to easily travel without taking charge of the steering wheel. Some vehicles will operate as on-demand taxis, while some may be owned just as cars currently are. This survey is designed to find out how people view self-driving cars and sharing vehicles and whether these offer a solution to our transportation problems.

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### CONSENT FORM

You are invited to participate in a research study that is being conducted by Sicheng Wang, who is a Ph.D. student in the Planning and Public Policy Department at Rutgers University. The purpose of this research is to learn about attitudes towards self-driving vehicles that are currently being developed and tested by a large number of companies.

This research is anonymous. Anonymous means that I will record no information about you that could identify you. There will be no linkage between your identity and your response in the research. This means that I will not record your name, address, phone number, date of birth, etc. If you agree to take part in the study, you will be assigned a random code number that will be used on each test and the questionnaire. Your name will appear only on a list of subjects, and will not be linked to the code number that is assigned to you. There will be no way to link your responses back to you. Therefore, data collection is anonymous.

The research team and the Institutional Review Board at Rutgers University are the only parties (please modify if others will have access to the data) that will be allowed to see the data, except as may be required by law. If a report of this study is published, or the results are presented at a professional conference, only group results will be stated. All study data will be kept for three years.

There are no foreseeable risks to participation in this study. In addition, you may receive no direct benefit from taking part in this study.

Participation in this study is voluntary. You may choose not to participate, and you may withdraw at any time during the study procedures without any penalty to you. In addition, you may choose not to answer any questions with which you are not comfortable.

If you have any questions about the study or study procedures, you may contact myself at 33 Livingston Avenue, 466, New Brunswick, NJ 08901, tel: 443-449-9376, email: [sicheng.wang@rutgers.edu](mailto:sicheng.wang@rutgers.edu). You can also contact my faculty advisor Dr. Robert Noland, at 33 Livingston Avenue, 466, New Brunswick, NJ 08901, 848-932-2859, email: [rnoland@rutgers.edu](mailto:rnoland@rutgers.edu).

If you have any questions about your rights as a research subject, please contact an IRB Administrator at the Rutgers University, Arts and Sciences IRB:

Institutional Review Board  
Rutgers University, the State University of New Jersey  
Liberty Plaza / Suite 3200  
335 George Street, 3<sup>rd</sup> Floor  
New Brunswick, NJ 08901  
Phone: 732-235-2866

Email: [humansubjects@orsp.rutgers.edu](mailto:humansubjects@orsp.rutgers.edu)

Please retain a copy of this form for your records. By participating in the above stated procedures, then you agree to participation in this study.

If you are 18 years of age or older, understand the statements above, and will consent to participate in the study, click on the "I Agree" button to begin the survey/experiment. If not, please click on the "I Do Not Agree" button which you will exit this program.

- Agree (1)
- I Do Not Agree (2)

*Skip To: End of Survey If = 5*

**End of Block: Informed Consent**

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Q1 **Are you?** (Please select one):

- Female (1)
  - Male (2)
  - Other (3)
  - Prefer not to say (4)
-

**Q2 Are you of Hispanic, Latino, or Spanish origin?** (Please select one).

- Yes (1)
- No (2)
- Prefer not to say (3)

**Q3 Please tell me your race (Check one or more boxes).**

- American Indian or Alaska Native (1)
- Asian (2)
- Black or African American (3)
- White (4)
- Native Hawaiian or Pacific Islander (5)
- Other (please specify) (6) \_\_\_\_\_
- Prefer not to say (7)

**Q4 In what year were you born?**

\_\_\_\_\_

*Display This Question:*

*If In what year were you born? Text Response Is Equal to*

**Q4a We realize that some people do not like to share their age. Would you be willing to share with us whether it is between...**(Please select one).

- 18 to 24 (1)
- 25 to 34 (2)
- 35 to 44 (3)
- 45 to 54 (4)
- 55 to 64 (5)
- 65 to 74 (6)
- 75 and over (7)
- Prefer not to say (8)

**End of Block: Basic Information**

**Start of Block: Perceptions about Fully Self-Driving Cars**

**Q5 Have you heard or read about self-driving cars?** (Please select one).

- Yes (1)
- No (2)

*Display This Question:*

*If Q5 = 1*

**Q5a How familiar are you with self-driving cars?** (Please select one).

- I am very familiar with self-driving cars and regularly keep up on the latest developments (1)
- I am somewhat familiar with self-driving cars (2)
- I occasionally hear about self-driving cars (3)
- I am aware that self-driving cars are being developed, but have not paid much attention to them (4)

*Skip To: Q6 If Q5a = 1*

*Skip To: Q6 If Q5a = 2*

*Skip To: Q6 If Q5a = 3*

*Skip To: Q6 If Q5a = 4*

Display This Question:  
If Q5 = 2

**Q5b A self-driving car is a computerized vehicle that can drive itself and does not need a person operating the vehicle.**

Do you have a positive or negative view of self-driving cars? (Please select one).

- Positive (4)
- Neutral (5)
- Negative (6)

---

**Q6 Do you have a positive or negative view of self-driving cars?** (Please select one).

- Positive (1)
- Neutral (2)
- Negative (3)

---

**Q7 Would you be likely to purchase a fully self-driving car when these are available?** (Please select one).

- Yes (1)
- No (2)
- Uncertain (3)

---

**Q8 Do you think a self-driving car will \_\_\_\_\_ ? (Check all that apply).**

- Make driving safer for me (1)
- Make driving safer for all road users (such as other vehicles, pedestrians, and cyclists) (2)
- Allow me to relax and travel longer distances (3)
- Allow me to work while commuting to my job (4)
- Allow me to read, watch videos, or use a computer (5)
- Allow me to get to work faster since there will be less congestion (9)
- Allow me to travel more easily when I am unable to drive, e.g., drinking too much alcohol (10)
- Provide a pleasant experience (6)
- I do not think self-driving cars will benefit me (7)
- Be too expensive to purchase (8)

End of Block: Perceptions about Fully Self-Driving Cars

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Start of Block: Ridesharing Use

**Q9 Have you ever used a smartphone app-based ridesharing service such as Uber or Lyft?** (Please select one).

- Yes (1)
- No (2)

Skip To: Q12 If Q9 = 2

**Q10 How often do you use Uber, Lyft, or another ridesharing service?** (Please select one).

- Several times per week (1)
- Once per week (2)
- Once per month (3)
- A few times per year (4)
- Never (5)

Q11 When did you first use a smartphone app-based ridesharing service such as Uber or Lyft? (Please select one).

- When they were first offered (1)
- Before most people I know started to use them (2)
- Just as most people I know started to use them (3)
- After most people I know had already used them (4)

Q12 If you were to use Uber or Lyft for the following trips, how many MINUTES would you be willing to wait?

	(1)
To travel from my HOME to WORK or SCHOOL (2)	
To travel from my HOME to a GROCERY STORE (3)	
To travel from my HOME to a RESTAURANT (4)	

Q13 If you were to use Uber or Lyft for the following trips, how many MINUTES would you be willing to wait?

	(1)
To travel from WORK or SCHOOL to my HOME (2)	
To travel from a GROCERY STORE to my HOME (3)	
To travel from a RESTAURANT to my HOME (4)	

Q14 Would you use a taxi service, such as Uber or Lyft, that was self-driving, with no driver in the vehicle? (Please select one).

- Yes (1)
- Maybe (2)
- No (3)

Q15 Would you use a self-driving taxi that is shared with someone you do not know? (Please select one).

- Yes (1)
- Maybe (2)
- No (3)

Display This Question:  
If Q15 != 1

Q15a Would you share a ride in a self-driving taxi if it costs less than traveling alone? (Please select one).

- Yes (1)
- Maybe (2)
- No (3)

End of Block: Ridesharing Use

Start of Block: Do you agree or disagree with following statements?

To understand how people view self-driving cars we would like to understand attitudes towards safety, driving, and your viewpoints on some issues. Please state your level of agreement or disagreement with each of the statements on the following pages, ranging from “strongly agree” to “strongly disagree”.

**Q16 I believe that the government should develop regulations for self-driving cars. (Please select your level of agreement or disagreement).**

- Strongly agree (1)
  - Agree (2)
  - Neither agree nor disagree (3)
  - Disagree (4)
  - Strongly disagree (5)
- 

**Q17 I believe that the technology companies developing self-driving cars should have the freedom to test their vehicles on city streets. (Please select your level of agreement or disagreement).**

- Strongly agree (1)
  - Agree (2)
  - Neither agree nor disagree (3)
  - Disagree (4)
  - Strongly disagree (5)
- 

**Q18 When I am driven by someone I know (such as a family member or friend) I am not concerned about my safety. (Please select your level of agreement or disagreement).**

- Strongly agree (1)
  - Agree (2)
  - Neither agree nor disagree (3)
  - Disagree (4)
  - Strongly disagree (5)
- 

**Q19 When I am driven by someone I do not know (such as a cab driver, limo driver, or Uber or Lyft driver) I am not concerned about my safety. (Please select your level of agreement or disagreement).**

- Strongly agree (1)
  - Agree (2)
  - Neither agree nor disagree (3)
  - Disagree (4)
  - Strongly disagree (5)
- 

**Q20 I think speed limits are too high. (Please select your level of agreement or disagreement).**

- Strongly agree (1)
  - Agree (2)
  - Neither agree nor disagree (3)
  - Disagree (4)
  - Strongly disagree (5)
- 

**Q21 Fines for speeding should be higher. (Please select your level of agreement or disagreement).**

- Strongly agree (1)
  - Agree (2)
  - Neither agree nor disagree (3)
  - Disagree (4)
  - Strongly disagree (5)
- 

**Q22 I prefer to avoid risky activities. (Please select your level of agreement or disagreement).**

- Strongly agree (1)
- Agree (2)
- Neither agree nor disagree (3)
- Disagree (4)
- Strongly disagree (5)

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**Q23 I really dislike not knowing what is going to happen.** (Please select your level of agreement or disagreement).

- Strongly agree (1)
- Agree (2)
- Neither agree nor disagree (3)
- Disagree (4)
- Strongly disagree (5)

End of Block: Do you agree or disagree with following statements?

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Start of Block: Technology Acceptance

**Q24 When did you first buy a smart phone that can access websites?** (Please select one).

- 2007-2009, when smart phones were new (1)
- 2010 - 2012 (2)
- 2013 - 2015 (3)
- 2016 - 2018 (4)
- I don't own a smartphone (5)

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**Q25 Do you own an interactive home assistance device, such as Amazon Echo or Google Home?** (Please select one).

- Yes (1)
- No, but I am interested in having one in the future (3)
- No, and I am not interested in having one (2)

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**Q26 Do you own a wearable smart device, such as a smart watch or fitness monitor, that records your daily activity?** (Please select one).

- Yes (1)
- No, but I am interested in having one in the future (3)
- No, and I am not interested in having one (2)

End of Block: Technology Acceptance

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Start of Block: Travel Behavior

**Q27 How do you usually get to work/school? (If you usually use more than one method of transportation during the trip, choose the one used for most of the distance).**

- Car, truck, or van (1)
- Bus or trolley bus (2)
- Streetcar or trolley car (3)
- Subway or elevated (4)
- Train (5)
- Ferryboat (6)
- Taxi, Uber, or Lyft (7)
- Motorcycle (8)
- Bicycle (9)
- Walking (10)
- Work at home (11)
- Other method (12) \_\_\_\_\_

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**Q28 How many MINUTES does it usually take you to get from your home to work or school?**

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**Q29 How many motor vehicles are kept at home for use by members of your household?** (Please select one).

- None (1)
- 1 (2)
- 2 (3)
- 3 (4)
- 4 (5)
- 5 (6)
- 6 or more (7)

*Skip To: Q31 If Q29 = 1*

**Q30 I chose my vehicle because it fits my personality and represents who I am as a person.** (Please select your level of agreement or disagreement).

- Strongly agree (1)
- Agree (2)
- Neither agree nor disagree (3)
- Disagree (4)
- Strongly disagree (5)

**Q31 I prefer to drive when I am in a motor vehicle.** (Please select your level of agreement or disagreement).

- Strongly agree (1)
- Agree (2)
- Neither agree nor disagree (3)
- Disagree (4)
- Strongly disagree (5)

**Q32 I love to drive and driving seems fun.** (Please select your level of agreement or disagreement).

- Strongly agree (1)
- Agree (2)
- Neither agree nor disagree (3)
- Disagree (4)
- Strongly disagree (5)

End of Block: Travel Behavior

Start of Block: Demographic Questions

**Q33 What is the highest degree or level of school you have completed? If currently enrolled, highest degree received.** (Please select one).

- Less than high school (1)
- High school or GED (2)
- Some college (3)
- Two-year college degree (4)
- Four-year college degree (5)
- Master's degree (6)
- Graduate or professional degree (7)
- Prefer not to say (8)



**Q34-0 How many people live in your household?** (Please select one).

- 1 (4)
  - 2 (5)
  - 3 (6)
  - 4 (7)
  - 5 (8)
  - 6 or more (9)
  - Prefer not to say (10)
- 

**Q34 How many children under 18 live in your household?** (Please select one).

- 0 (4)
  - 1 (5)
  - 2 (6)
  - 3 (7)
  - 4 or more (8)
  - Prefer not to say (9)
- 

**Q35 Which of the following categories best reflects your household's total annual income in 2017?** (Please select one).

- Under \$25,000 (1)
- \$25,000 to under \$50,000 (2)
- \$50,000 to under \$100,000 (3)
- \$100,000 to under \$150,000 (4)
- \$150,000 to under \$200,000 (5)
- \$200,000 or greater (6)
- Don't know (7)
- Prefer not to say (8)

**Q36 What is the zip code of your home address?**

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End of Block: Demographic Questions

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Start of Block: Ending

**Q37 Thank you for taking this survey!**

**If you have any additional comments , please let us know:**

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End of Block: Ending

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