

## Transportation Survey

The following pages contain an anonymous questionnaire, which we invite you to complete. This questionnaire was developed as part of a research project at HEC Montréal that assesses general knowledge of automobiles.

If you agree to take part in this study, you will be directed to a Google form to answer the survey questions. Since your first impressions best reflect your true opinions, we would ask that you please answer the questions included in this questionnaire without any hesitation. There is no time limit for completing the questionnaire, although we have estimated that it should take about 5 minutes.

The survey responses received by the research team will be anonymous and the researchers will do their best to keep your information strictly confidential. It may be used for the advancement of knowledge and the dissemination of the overall results in academic or professional forums. No personal identifiable information will be collected.

The online survey service that informed you of this study, Prolific, agrees to refrain from disclosing any personal information (or any other information concerning participants in this study) to any other users or to any third party, unless the respondent expressly agrees to such disclosure or unless such disclosure is required by law.

You are free to refuse to participate in this project and you may decide to stop answering the questions at any time. By completing this questionnaire, you will be considered as having given your consent to participate in our research project and to the potential use of the anonymous data collected from this questionnaire in future research.

All survey data collected will be securely stored on encrypted cloud-based hosting services. If you have any questions about this research, please contact the principal investigator, Katalin Springel, at the telephone number or email address indicated below.

HEC Montréal's Research Ethics Board has determined that the data collection related to this study meets the ethics standards for research involving humans. If you have any questions related to ethics, please contact the REB secretariat at (514) 340-6051 or by email at [cer@hec.ca](mailto:cer@hec.ca).

Thank you for your valuable cooperation!

Katalin Springel.  
Assistant Professor  
HEC Montréal  
514-340-6463  
[katalin.springel@hec.ca](mailto:katalin.springel@hec.ca)

Jing Li  
Assistant Professor  
Tufts University  
617-627-3560  
[j.li@tufts.edu](mailto:j.li@tufts.edu)

## Online Appendix: Survey Details

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If you give your consent to take part please click "I agree" below. \*

☐ I agree

☐ I do not agree

### Prolific ID

Please enter your Prolific ID \*

Your answer

### Main Survey

Each vehicle below is either an electric vehicle (i.e. a vehicle powered by an electric motor) or a gasoline-powered vehicle. We have not included any plug-in hybrid, conventional hybrid, or other types of vehicles.

## Online Appendix: Survey Details

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What is this? \*



- ☐ Electric Vehicle
- ☐ Gasoline Vehicle

## Online Appendix: Survey Details

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What is this? \*



- ☐ Electric Vehicle
- ☐ Gasoline Vehicle

## Online Appendix: Survey Details

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What is this? \*



- ☐ Electric Vehicle
- ☐ Gasoline Vehicle



## Online Appendix: Survey Details

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What is this? \*



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### Additional Questions

Answer each question the best you can but please don't search online for the answers.

With an electric vehicle, what is Level 2 charging? \*



- ☐ The fastest type of charging available
- ☐ Charging at a standard household outlet
- ☐ Charging using a 240-volt outlet, typically found in homes and public charging stations
- ☐ Charging using renewable energy sources

## Online Appendix: Survey Details

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What is the most common battery type used in electric vehicles today? \*

- ☐ Lead-acid batteries
- ☐ Nickel-metal hydride batteries
- ☐ Lithium-ion batteries
- ☐ Solid-state batteries

With an electric vehicle, approximately how many miles do you get for 30 minutes \*  
of Level 3 (DC Fast) charging?

- ☐ 0-5 miles
- ☐ 10-20 miles
- ☐ 40-50 miles
- ☐ 100-200+ miles



## Online Appendix: Survey Details

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In a gasoline-powered vehicle, what is the purpose of the alternator? \*



- ☐ To improve steering stability
- ☐ To transmit power from the engine to the wheels
- ☐ To cool the engine
- ☐ To charge the battery

## Online Appendix: Survey Details

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If the inner edges of a vehicle's tires look worn, what is the most likely cause? \*



- ☐ The vehicle's tires are underinflated
- ☐ The vehicle is too heavy for the tires
- ☐ The vehicle's wheel alignment is off
- ☐ The vehicle's shock absorbers need replacing

## Online Appendix: Survey Details

What does an odometer measure? \*



- ☐ Distance
- ☐ Speed
- ☐ Fuel level
- ☐ Engine temperature

## Online Appendix: Survey Details

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### End of Survey

Please complete the following steps to record your survey response and receive your reward:

- 1) Make a note of this completion code: C1I3EEYK
- 2) Click 'Submit'.
- 3) Enter the completion code on Prolific.