

# INFORMATION SHEET FOR PARTICIPANTS

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## YOU WILL BE GIVEN A COPY OF THIS INFORMATION SHEET

**“Comparing human and AI behaviour in simulated driving scenarios”**

### **Invitation Paragraph**

I would like to invite you to participate in a research project that will contribute towards my Bachelor's dissertation. Taking part in the study is completely voluntary and you are not obliged to participate. In order to decide whether you want to participate in the study it is vital that you read and properly understand all the information provided on this information sheet. After doing so, if anything remains unclear or you would like more information please ask me using the contact details provided at the end of this information sheet.

### **What is the purpose of the study?**

The purpose of this study is to compare human and AI behavior in simulated driving scenarios. The study will aim to critically investigate how people and AI agents drive cars in virtual road infrastructures, analyze their reaction time to unexpected road incidents, and monitor how correctly they operate the vehicle. The action will take place in the virtual simulator [CARLA](#) where the participants will be asked to operate a car (just like in a racing or open-world video game) through different cities in traffic. Participants can choose if they want to drive the car using a keyboard or a steering wheel and pedals. The gathered data will be used to reason about how good and maybe close to perfect today's self-driving AI implementations are and how they compare to human drivers. In addition, the work will be used to propose possible improvements to the AI models based on the conclusions of the research.

### **Why have I been invited to take part?**

You have been invited to take part as you satisfy the requirement of being a human being who has no disabilities that would prevent you from being able to control the car and see the environment that surrounds it and you also have a driver's license (the country does not matter). The reason that the driver's license is needed is to ensure that you know the road rules and can participate as a driver who has experience driving on the roads.

### **Do I have to take part?**

You do not have to take part. You should make an informed choice of whether or not you wish to participate after you have read and fully understood all the information provided on this information sheet. You should not agree to participate in this research until you have clarified any questions you may have with me and are happy to take part.

### **What will happen to me if I take part?**

If you decide to participate, you must keep this information sheet for reference and inform me about your decision to participate within seven calendar days of receiving this paper. If you choose to participate, you will be given a consent form that you will need to sign. Its purpose is to document that you give consent for me to use the observations from the simulated scenarios and gathered data about the vehicle and its movements in the research. After the permission is given, we will decide on the exact date when you will have to arrive at the Bush House, where you will be given access to the simulator. You can drive the car using a

keyboard, steering wheel, and pedals. The duration of the session is estimated to be around 30 minutes. No preparation is required, and all the necessary equipment will be provided.

**What if I change my mind about taking part?**

You withdraw from the research until the 01/03/2023.

**Incentives**

There is no financial incentive to participate in this research.

**What are the possible risks of taking part?**

There are no foreseeable risks in participating in the study. The main disadvantage to taking part in the study is that you will be donating some of your time.

**Will my taking part be kept confidential?**

The data gathered from your driving will be unidentifiable. It will be held securely both during the research as well as after it is finished. Your participation is entirely voluntary. If you change your mind, you are free to withdraw from the research until the date specified in the consent paper. All data for analysis will remain anonymous and you will not be asked to provide your name, address any contact details. There will be no possibility of you as an individual being linked with the data. All data collected will be protected under the Data Protection Act of 2018.

**What will happen to the results of the study?**

The results of the study will form part of my research and will be analyzed within my Bachelor's dissertation.

**What personal data will be collected?**

The name and signature on the consent form that will never be published.

**Who should I contact for further information or if something goes wrong?**

If you have any questions or require more information about this study, please contact me using the following details:

Vakaris Paulavičius  
vakaris.paulavicius@kcl.ac.uk  
075 0665 8765

If this study has harmed you in any way or if you wish to make a complaint about the conduct of the study, you can contact my dissertation supervisor at King's College London for further advice and information using the details below.

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**Thank you for reading this information sheet and for considering taking part in this research.**