

Participant Information Sheet

Effect of different explanation styles on performance and trust

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Co-Investigator: Paul Festor, Tabea Röber, Prof. Ilker Birbil, Dr. Rob Goedhart

You are being invited to take part in a research study. Before you decide if you'd like to take part, it is important for you to understand why the research is being done and what it will involve. Please take time to read the following information carefully and discuss it with others if you wish.

Part 1 tells you the purpose of this study and what will happen to you if you take part.
Part 2 gives you more detailed information about the conduct of the study.

If there is anything that is not clear or if you would like more information, please email a.faisal@imperial.ac.uk. Take time to decide whether or not you wish to take part.

Thank you in advance for reading this.

Part 1

What is the purpose of the study?

We want to study how different types of explanations for AI predictions impact users' performance on a specific task and their trust in the AI system.

Why have I been invited?

This is an open study for anyone that is interested in taking part. You must be aged 18 years old or older, and able to understand written English.

Do I have to take part?

It is up to you to decide whether or not to take part. If you do decide to take part you can save this information sheet to refer to later, and you will be asked to indicate your consent. If you decide to participate, you are still free to withdraw at any time and without giving a reason. To do this, you can simply exit the webpage without completing the rest of the experiment. If you would like us to remove your data at any point after you complete the experiment, you will need to email us (see contact details) with your unique participant code that you are provided with at the start of the experiment. The data we collect from you will not be personally linked to you in any other way. An exception is if you decide to leave your email address at the end of the survey. This is voluntary and while we store this information separate from your survey responses, we can link them with the unique ID. Nonetheless, to withdraw from the study, please inform us using your unique ID. If you need to take a break at any point during the experiment, you can do so. However, please make sure that you keep the experiment webpage open during this break, as otherwise all your progress will be lost.

What will happen to me if I take part / what do I have to do?

You will be asked to make several predictions on real-world inspired problems based on the information provided on the screen. Your accuracy on these predictions will determine whether you will be rewarded with a monetary bonus after completion of the experiment.

The experiment consists of three blocks. Each block comes with slightly different instructions, but you will be asked to perform a specific task about 20-30 times per block, depending on the block. At the start of the experiment there will be a short questionnaire inquiring demographics and domain expertise. We expect the entire experiment to normally take about 30 minutes, depending on how long you decide to spend on each task. There are no further commitments or lifestyle restrictions associated with participating, and no further involvement will be required of you after completing the online experiment.

The data is pseudonymized and every participant will be associated with a unique ID.

What are possible disadvantages and risks of taking part?

There are no risks associated with taking part in the study.

What are the possible benefits of taking part?

When taking part in the study through Amazon Turk, you will be compensated for your time with £1.50. The last block of the experiment keeps track of a score for each participant. We will send an Amazon gift card of £50 to a random participant with a chance proportional to their score.

What if something goes wrong?

If you are harmed by taking part in this research project, there are no special compensation arrangements. If you are harmed due to someone's negligence, then you may have grounds for a legal action. Regardless of this, if you wish to complain, or have any concerns about any aspect of the way you have been treated during the course of this study then you should immediately inform the Investigator (Prof. Aldo Faisal, a.faisal@imperial.ac.uk). If you are still not satisfied with the response, you may contact the Imperial College Research Governance Integrity Team (rgitcoordinator@imperial.ac.uk).

What will happen to the results of the research study?

Results from this study may be published at a later date, and you can email for any updates on publication at a.faisal@imperial.ac.uk. You will not be identifiable in any publication.

Who is organising and funding the research?

The research is organised by Prof. Aldo Faisal and his team at the Brain and Behaviour Lab, Dept. of Bioengineering and Dept. of Computing, Imperial College London, along with collaborators at the University of Amsterdam.

Who has reviewed the study?

This study was given approval from the Head of Department (Rylie Green) and approval from the Research Governance and Integrity Team (RGIT).

Contact for Further Information

If you would like any further information on this study that is not covered above, please contact a.faisal@imperial.ac.uk.

Part 2 – Transparency Notice

HOW WILL WE USE INFORMATION ABOUT YOU?

Research Study Title: Effect of different explanation styles on performance and trust

Imperial College London is the sponsor for this study and will act as the data controller for this study. This means that we are responsible for looking after your information and using it appropriately. Imperial College London will keep your personal data for:

- 10 years after the study has finished in relation to data subject consent forms.
- 10 years after the study has completed in relation to primary research data.

The study is expected to finish in January 2029.

We will need to use information from you (including personal data and data created as part of the study) for this research project. This information will include your age, gender, level of education, and your familiarity and expertise with AI and the domain we chose to use for the study.

People within Imperial College London and study team (see section ‘Sharing your information with others’) will use this information to do the research or to check your records (see information to be collected) to make sure that the research is being done properly and the information held (such as contact details) is accurate. We will keep all information about you safe and secure. Once we have finished the study, we will keep some of the data so we can check the results. We will write our reports in a way that no-one can work out that you took part in the study.

LEGAL BASIS

As a university we use personal information to conduct research that will either be in the public interest, or the ‘legitimate interests’ of Imperial College whose interests are to conduct world leading research and innovation aiming to deliver transformative impact for society. Our legal basis for using your information under the General Data Protection Regulation (GDPR) and the Data Protection Act 2018, is as follows:

- Imperial College London - “performance of a task carried out in the public interest” or “legitimate interests’ held by the controller”;

We will conduct scientific research in compliance with the law and the recommendations and guidance published by the UK Information Commissioners Office (ICO). Scientific research should serve the public interest, which means that we have to demonstrate that our research has societal impact serving the interests of society as a whole.

INTERNATIONAL TRANSFERS

There may be a requirement to transfer information to countries outside the United Kingdom for example, to a research partner, either within the European Economic Area (EEA) or to other countries outside the EEA. Where this information contains your personal information, Imperial College London will ensure that it is transferred in accordance with data protection legislation. If the data is transferred to a country which is not subject to a UK adequacy decision in respect of its data protection standards, Imperial College London will enter into a data sharing agreement with the recipient organisation that incorporates UK approved standard contractual clauses or use another transfer mechanism that safeguards how your personal data is processed.

SHARING YOUR INFORMATION WITH OTHERS

We will only share your personal data with certain third parties for the purposes referred to in this participant information sheet and by relying on the legal basis for processing your data as set out above.

- Other Imperial College London employees (including staff involved directly with the research study or as part of defined secondary activities which may include support functions, internal audits, ensuring accuracy of contact details etc.), College agents, contractors and service providers (for example, suppliers of printing and mailing services, email communication services or web services, or suppliers who help us carry out any of the activities described above). Our third party service providers are required to enter into data processing agreements with us. We only permit them to process your personal data for specified purposes and in accordance with our policies.
- the following Research Collaborators / Partners in the study
 - University of Amsterdam – this study is conducted with researchers from the University of Amsterdam, the Netherlands. Participants data and task responses may be shared with them for purposes of analyses.

POTENTIAL USE OF STUDY DATA FOR FUTURE RESEARCH

When you agree to take part in a research study, the information collected either as part of the study or in preparation (such as contact details) may, with your consent, be provided to researchers running other research studies in this organisation and in other organisations. These organisations may be universities or organisations involved in research in this country or abroad. Your information will only be used by organisations and researchers to conduct research in accordance with all relevant legislation including the GDPR (UK GDPR and EU GDPR 2016/679), the Data Protection Act 2018.

This information will not identify you and will not be combined with other information in a way that could identify you, used against you or used to make decisions about you.

WHAT ARE YOUR CHOICES ABOUT HOW YOUR INFORMATION IS USED?

You can stop being part of the study at any time, without giving a reason, but we will keep information about you that we already have because some research using your data may have already taken place and this cannot be undone.

We need to manage your records in specific ways for the research to be reliable. This means that we may not be able to let you see or change the data we hold about you if this could affect the wider study or the accuracy of data collected.

WHERE CAN YOU FIND OUT MORE ABOUT HOW YOUR INFORMATION IS USED

You can find out more about how we use your information:

- by asking one of the research team
 - Paul Festor: paul.festor19@imperial.ac.uk
 - Tabea Röber: t.e.rober@uva.nl
 - Ilker Birbil: s.i.birbil@uva.nl
 - Rob Goedhart: r.goedhart2@uva.nl
- by sending an email to a.faisal@imperial.ac.uk or
- by ringing us on +44 (0)20 7594 6373.

COMPLAINT

If you wish to raise a complaint about how we have handled your personal data, please contact the research team first by sending an email to a.faisal@imperial.ac.uk, or by ringing us on +44 (0)20 7594 6373.

Following our response, if you are not satisfied please contact Imperial College London's Data Protection Officer via email at dpo@imperial.ac.uk, via telephone on 020 7594 3502 and/or via post at Imperial College London, Data Protection Officer, Faculty Building Level 4, London SW7 2AZ.

If you remain unsatisfied with our response or believe we are processing your personal data in a way that is not lawful you can complain to the Information Commissioner's Office (ICO) via www.ico.org.uk. The ICO does recommend that you seek to resolve matters with the data controller (us) first before involving them.