

Project title: Ada-Pos**Researcher carrying out the research:**

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Location of the research:

Online study.

Aim of the research project:

This project aims to understand how we perceive series of observations and make estimates and predictions from them. For example, daily users of public transport observe the traffic situation every day. From their past observations, they can estimate their chances of enjoying normal traffic (e.g. 2 out of 3 chances). This ability to estimate and anticipate the punctuality of transport is useful, for example, on the day when such a user has an important appointment, they will plan a greater margin to arrive on time as they estimate that transport problems are frequent. How does the human brain process series of past observations to predict what it will observe next? This is the subject of our research.

What is expected of you:

If you agree to take part in this study, you will be presented with a series of images on your computer screen during the experiment. You will have to identify these images, estimate the quantities that characterise the series, and report the result of your estimates by moving a slider with your pointing device (a more detailed explanation will be given to you at the start of the study). The experiment will last about half an hour, and will be divided into several sessions separated by breaks. The first session will serve as a training session.

Your rights to withdraw from the research at any time:

Your participation in this experiment is on a voluntary basis. You can decide at any time to interrupt your participation during the experiment, without having to justify your decision. Such an interruption will have no other consequence for you than to shorten the duration of the experiment.

Your rights to confidentiality and privacy:

The research data collected (your responses during the experiment) are associated with a unique identifier that is not related to your identity. The data is completely anonymised, and we will thus not be able to retrieve, modify or delete data related to you.

Research data will be kept in the laboratory for a minimum of 10 years. They may be made freely available online on dedicated platforms (e.g. osf.org).

Benefits of the study:

The expected benefits of the study fall under the heading of basic research, i.e. it aims to enrich scientific knowledge. In particular, it aims to better understand our perception of observation series and our ability to make successive estimates.

You will not benefit personally from this study beyond the compensation which amounts to £9/h plus a possible bonus of up to 25% of this amount depending on the success rate in the experiment.

Possible risks of the study:

To the best of our knowledge, this research does not involve any risks.

Dissemination:

The results of this research will be disseminated in scientific symposia and freely available academic journal articles.

Your right to ask questions:

You may ask questions about the research at any time (before, during and after your participation) by contacting the project's principal investigator by email at florent.meyniel@cea.fr.

Consent to participate:

By clicking on the accept button in the consent form, you certify that you have read and understood the above information, that the researcher has adequately answered any questions you may have. In particular, you understand that you will be free to withdraw your consent or withdraw from this research at any time, without prejudice.