

## Third Year Project: “Visualising Bayes’ Theorem” – User Evaluation

### Participant Information Sheet (PIS)

You are being invited to take part in an survey to complete a User Evaluation for a third year Computer Science project. Before you decide whether to take part, it is important for you to understand why the research is being conducted and what it will involve. Please take time to read the following information carefully before deciding whether to take part, and discuss it with others if you wish. Please ask if there is anything that is not clear or if you would like more information. Thank you for taking the time to read this.

### About the research

#### Who will conduct the research?

Research conducted by Thomas Poyser (Computer Science BSc, University of Manchester)  
Supervisor: Jonathan Shapiro (University of Manchester)

#### What is the purpose of the research?

This user evaluation is being conducted to assess the learning effectiveness, usability, and overall satisfaction associated with the use of an educational tool “Visualising Bayes’ Theorem.” The tool is designed to support the teaching and understanding of conditional probability and Bayes’ Theorem using natural frequencies and interactive visualisations.

#### Who has reviewed the research project?

Ethical approval not required (confirmed using the University of Manchester’s ethics decision tool:  
<https://www.manchester.ac.uk/research/environment/governance/ethics/approval/>)

The screenshot shows the 'Outcome: Evaluation' screen of the University of Manchester's ethics decision tool. It features a list of four questions on the left, each with a diamond icon and a 'No' answer. On the right, it states 'Ethical approval not required' with an information icon. Below this, it provides guidance for students to verify the outcome with their supervisor and directs queries to the supervisor or the Ethics Signatory. A final instruction at the bottom asks the user to print a copy of the outcome for their records. A back arrow icon is located at the bottom left of the form.

<b>Outcome:</b> Evaluation	
<b>1</b> Personal information?	No
<b>2</b> Sensitive/confidential?	No
<b>3</b> Vulnerable groups?	No
<b>4</b> Risk of disclosures?	No
	<b>Ethical approval not required</b> ⓘ
	Based on the information you have provided, it does not appear that your project requires formal ethical approval.
	If you are a student, you <b>must</b> verify this outcome with your supervisor before starting your project.
	Any queries should be directed to your supervisor or the <a href="#">Ethics Signatory</a> .
	Please print a copy of this outcome for your records.

# What would my involvement be?

## What would I be asked to do if I took part?

You would be asked to complete an anonymous online survey hosted on **SurveyMonkey**. Participants will be introduced to the software alongside several questions regarding its effectiveness, usability and overall experience.

The evaluation should take approximately 15-20 minutes to complete.

Please note, the survey will not collect your IP address.

## Will I be compensated for taking part?

No compensation will be offered for participating.

## What happens if I do not want to take part or if I change my mind?

It is up to you to decide whether or not to take part. If you do decide to take part you will be given this information sheet to keep and will be asked to tick a box to confirm consent. If you decide to take part you are still free to withdraw at any time without giving a reason and without detriment to yourself up until the point that you submit your online responses. It will not be possible to remove your data from the project once you have submitted your responses as they are collected anonymously and we will not be able to identify your specific data. This does not affect your data

# Contact Details

If you have any queries about the study or if you are interested in taking part then please contact the researcher(s)

**THOMAS POYSER**

**THOMAS.POYSER@STUDENT.MANCHESTER.AC.UK**

# Data Protection, Confidentiality and Further Details information

## Data Protection and Confidentiality

### Will my participation in the study be confidential?

In accordance with data protection law, The University of Manchester is the Data Controller for this project. This means that we are responsible for making sure your information is kept secure, confidential and used only in the way you have been told it will be used. All researchers are trained with this in mind, and your data will be looked after in the following way.

All information gathered for this survey is **anonymously** collected on **SurveyMonkey**. No identifiable information will be collected, including your IP address.

The data will not be shared with any other organisation, other than SurveyMonkey.

Only the researcher will have access to your anonymous responses.

### Will the outcomes of the research be published?

No.

### Will my information be shared with others?

No, this information will only be used in this project.

### Will my information be put into an archive?

No.

## Auditing and Monitoring

Please also note that individuals from The University of Manchester or regulatory authorities may need to look at the data collected for this study to make sure the project is being carried out as planned. All individuals involved in auditing and monitoring the study will have a strict duty of confidentiality to you as a research participant.

## What if I have a complaint?

If you have a complaint, please contact the researcher, Thomas Poyser.

**THOMAS POYSER**

**THOMAS.POYSER@STUDENT.MANCHESTER.AC.UK**

**If you wish to make a formal complaint to someone independent of the research team or if you are not satisfied with the response you have gained from the researchers in the first instance then please contact**

The Research Ethics Manager: [research.complaints@manchester.ac.uk](mailto:research.complaints@manchester.ac.uk) or by telephoning 0161 306 8089.

If you wish to contact us about your data protection rights, please email [dataprotection@manchester.ac.uk](mailto:dataprotection@manchester.ac.uk)

You also have a right to complain to the [Information Commissioner's Office about complaints relating to your personal identifiable information](#) Tel 0303 123 1113