

You Are Being Asked to Be in a Research Study

Concise presentation of key concepts

You are being asked to be in a research study. A research study is designed to answer a scientific question. If you agree to be in the study you will be one of 10,000 people who are being studied, at Emory and elsewhere.

Why is this study being done?

The purpose of this study is to understand how people think about the concept of metacognition in visual analytics. We hope that this research will inform future efforts to develop metacognitive interventions in visual analytics.

Do you have to be in the study?

It is your choice to join this research study. You do not have to be in it. Before you choose, take time to learn about the study.

What do you have to do if you choose to join this study?

If you qualify and choose to join the study, you will participate for an estimated 1 hour. Our study procedure consists of three parts:

The first part of the study involves completing background survey questionnaire.

The second part of the study involves using a web-based visual analytic tool to analyze data.

The third part of the study involves a post-study questionnaire.

How is this study going to help you?

If you are in the study, you will be helping the researchers answer the study question. This study is not intended to benefit you directly.

What are the risks or discomforts you should know about before deciding?

The study will take approximately 1 hour. We do not anticipate any problems that would affect risk level, your willingness to participate, or feasibility of doing the research. The risks

involved are no greater than those involved in daily activities such as using a laptop. If you withdraw prior to the completion of the study, you will not be compensated.

Costs

You will be responsible for data-related costs for accessing the study on the internet.

What Should You Do Next?

Read this form, or have it read to you. Make sure the study staff explains the study to you. Ask questions such as how much time you will have to spend on the study, any words you do not understand and more details about study procedures. Take time to think about this and talk about it with your family and friends.



Emory University Consent to be a Research Subject

Title: Promoting Metacognition in Visual Analytics

IRB #: 00007476

Principal Investigator: Dr. Emily Wall, Ph.D.
Assistant Professor
Computer Science Department
Emory University

Funding Source: NSF Award 2340539

Introduction

You are being asked to be in a research study. This form is designed to tell you everything you need to think about before you decide to consent (agree) to be in the study or not to be in the study. **It is entirely your choice. If you decide to take part, you can change your mind later on and withdraw from the research study.**

Before making your decision:

- Please carefully read this form or have it read to you
- Please reach out to our principal researcher and ask questions about anything that is not clear

You can take a copy of this consent form, to keep. Feel free to take your time thinking about whether you would like to participate. By signing this form you will not give up any legal rights.

What is the purpose of this study?

The purpose of this study is to understand *how people analyze data using visual analytics*.

This study will take about 1 hour to complete.

What will you be asked to do?

You will be asked to complete three sub-tasks.

The first part of the study involves completing background survey questionnaire.

The second part of the study involves using a web-based visual analytic tool to analyze data.

The third part of the study involves a post-study questionnaire.

The data collected will include demographic information, interaction logs such as clicks and hover interactions with the visual analytic tool, and survey feedback.

Who owns your study data and samples?

If you join this study, you will be donating your responses and data. You will not be paid if your responses or data are used to make a new product.

What are the possible risks and discomforts?

We do not anticipate any problems that would affect risk level, your willingness to participate, or feasibility of doing the research. The risks involved are no greater than those involved in daily activities such as using a laptop. If participants' confidentiality is breached, despite our best efforts to maintain confidentiality, only evidence that the individual participated in the study will be present.

Will you benefit from the study?

You will not directly benefit from the study.

Will you be paid for your time and effort?

You will be compensated through the crowdsourced platform at a rate equivalent to \$12/hour for the estimated duration of the task, regardless of whether you spend more or less time on the task. For instance, for a task estimated to last 1 hour, you will be compensated a flat rate of \$12.

What are your other options?

Since this study is voluntary, your other option is not to participate.

How will your private information be protected?

Whenever possible, a study number, rather than your name, will be used on study records. Your name and other identifying information will not appear when we present or publish the study results.

Study records can be opened by court order. They also may be provided in response to a subpoena or a request for the production of documents.

Storing and Sharing your Information

We will store the data that you provide during the study using an anonymous code. This code will not include information that can identify you (identifiers). Specifically, it will not include your name, initials, or contact information. We will keep a file that links this code to your identifiers in a secure location separate from the data. Information used to contact you to schedule the study session or provide compensation such as your email address will be stored separately from all other study data and not otherwise linked.

We will not allow your name or any other identifiers to appear when we present or publish the results of this study.

Your data may be useful for other research being done by investigators at Emory or elsewhere. We may share the anonymous data, linked by the study code, with other researchers at Emory, or with researchers at other institutions. We will not share the link between the study code and your identity.

Costs

You will be responsible for data-related costs for accessing the study on the internet.

Withdrawal from the Study

You have the right to leave a study at any time without penalty. Participants may withdraw or be withdrawn if a session is interrupted due to unpredictable circumstances such as medical emergencies. In the case of withdrawals- including partial- all collected data related to the participant will be discarded as soon as such an event is detected by the researchers.

Confidentiality

Certain offices and people other than the researchers may look at study records. Government agencies and Emory employees overseeing proper study conduct may look at your study records. These offices include [the Office for Human Research Protections, the funder(s), the Emory Institutional Review Board, the Emory Office of Compliance]. Study funders may also look at your study records. Emory will keep any research records we create private to the extent we are required to do so by law. A study number rather than your name will be used on study records wherever possible. Your name and other facts that might point to you will not appear when we present this study or publish its results.

People Who will Use/Disclose Your Information:

The following people and groups will use and disclose your information in connection with the research study:

- The Principal Investigator and the research staff will use and disclose your information to conduct the study.
- Emory may use and disclose your information to run normal business operations.
- The Principal Investigator and research staff will share your information with other people and groups to help conduct the study or to provide oversight for the study.
- National Science Foundation is the Sponsor of the study. The Sponsor may use and disclose your information to make sure the research is done correctly and to collect and analyze the results of the research. The Sponsor may disclose your information to other people and groups like study monitors to help conduct the study or to provide oversight for the study.
- The following people and groups will use your information to make sure the research is done correctly and safely:
 - Emory offices that are part of the Human Research Participant Protection Program and those that are involved in study administration and billing. These include the Emory IRB, the Emory Research and Healthcare Compliance Offices, and the Emory Office for Clinical Research.
 - Government agencies that regulate the research including: Office for Human Research Protections.
 - Public health agencies.
 - Research monitors and reviewer.
 - Accreditation agencies.
- Sometimes a Principal Investigator or other researcher moves to a different institution. If this happens, your information may be shared with that new institution and their oversight offices. Information will be shared securely and under a legal agreement to ensure it continues to be used under the terms of this consent.

Contact Information

If you have questions about the study procedures or other questions or concerns about the research or your part in it, contact Dr. Emily Wall at emily.wall@emory.edu.

This study has been reviewed by an ethics committee to ensure the protection of research participants. If you have questions about your **rights as a research participant**, or if you have **complaints** about the research or an issue you would rather discuss with someone outside the research team, contact the Emory Institutional Review Board at 404-712-0720 or 877-503-9797 or irb@emory.edu.



To tell the IRB about your experience as a research participant, fill out the Research Participant Survey at



<https://tinyurl.com/ycewgkke>.

Consent

If you would like to participate, please proceed to the study.