



The University of British Columbia  
Department of Computer Science

201 – 2366 Main Mall  
Vancouver BC  
V6T 1Z4

## Consent Form

### Facebook Usage Trace Study

**Principal Investigator:** Dr. Ivan Beschastnikh, Department of Computer Science ([bestchai@cs.ubc.ca](mailto:bestchai@cs.ubc.ca))

**Co-Investigators:** Dr. Konstantin Beznosov, Department of Computer Science ([beznosov@ece.ubc.ca](mailto:beznosov@ece.ubc.ca))

Wali Ahmed Usmani, Department of Computer Science ([wusmani@cs.ubc.ca](mailto:wusmani@cs.ubc.ca))

#### Purpose:

We seek to create a countermeasure against “Facejacking”, a physical insider attack where an adversary uses a victim's personal device to access a social network, like Facebook, to gain access to sensitive information and/or to impersonate them. To do this, we must analyse how Facebook users use their account and thus, need to collect Facebook usage traces. In this study, you will be asked to install our Chrome extension, called ThirdEye, which will automatically collect your interactions with the Facebook on your computer and send this data to our server.

#### Study Details:

The ThirdEye extension collects user activity at two levels:

- Event Data

Event Data is name of the event generated by an interaction on Facebook. For example, clicking on a story on your newsfeed will generate the event "News Feed Story Click".

- Context Data

Context data is information associated with the action. Following the previous example, a "News Feed Story Click" event's context data will include the URL of the visited news story, the URL of the Facebook profile of the friend who posted the story that was clicked as well as the Facebook profile URLs of the friends tagged in the story. Another example of event and context data is of the action of sending a Facebook message to a friend. In this case, event data will be "FB Message" and the context data will be the Facebook URL of the friend you send the message too as well as the content of the message. We try our best to ensure that we avoid collecting data related to your Facebook friends. For example, when capturing FB messages, we only capture sent messages (and not received messages). There is however a chance that the extension may record some such data. Collection of event data is mandatory for you to participate in this study. However, no context data will be collected unless you provide explicit permission for us to collect it.

#### Study Procedures:

You will be asked to install the Third Eye Chrome Extension, which will automatically record your Facebook activity. You will be expected to use Facebook regularly during the study period of approximately 1.5 to 2 months. After the completion of the study period, you will be notified to uninstall the Chrome Extension.

To opt out of the study at any point, you can do so by un-installing the Chrome extension. Details on Study Procedure can be found at <http://thirdeyedetect.github.io/studypage/study.html>.

### **Known Risks:**

Your Facebook usage information will be stored on a physically secure server at UBC. This data will be stored in encrypted form and encryption keys will be stored on a USB key at a different, secure, location. However, this data may be compromised if (1) the server is compromised, and simultaneously (2) the encryption keys are stolen.

### **Potential Benefits:**

There are no particular benefits to performing this study.

### **Duration of Study:**

Installation of the Third Eye Chrome Extension should take 5 min. The study will last between 1.5 and 2 months during which you will be expected to use Facebook as usual. After study you can remove the Chrome Extension.

### **Confidentiality:**

All data collection will be anonymized. Context data will be collected only if you provide explicit permission to do so. A participant will be identified by an random and anonymous number in our data analysis. All data sent by the extension to our server will be encrypted. The data will stored in encrypted form on the physically secure server. The encryption keys will be kept offline.

While we minimize collecting data related to a participant's Facebook associates, and related data will be anonymized through hashing.

### **How will the data be used:**

The collected data will be used as part of a scientific paper investigating Facejacking attacks and mitigation techniques. The data will not be used for any other purpose.

### **Compensation:**

All participants who allow their "Event Data" to be captured will be paid a \$25 CAD honorarium with an additional \$10 CAD for consenting to provide "Context Data" at the end of the study period. Leaving the study during data collection will disqualify participants from receiving compensation and we will immediately delete their collected data from our server.

### **Contact for information about the study:**

If you have any questions or desire further information about the study, you may contact Wali Usmani ([wusmani@cs.ubc.ca](mailto:wusmani@cs.ubc.ca)), Dr. Ivan Beschastnikh ([bestchai@cs.ubc.ca](mailto:bestchai@cs.ubc.ca)) or Dr. Konstantin Beznosov ([beznosov@ece.ubc.ca](mailto:beznosov@ece.ubc.ca)).

### **Contact for concerns about the rights of research subjects:**

If you have any concerns or complaints about your rights as a research participant and/or your experiences while participating in this study, contact the Research Participant Complaint Line in the UBC Office of Research Ethics at 604-822-8598 or if long distance e-mail [rsil@ors.ubc.ca](mailto:rsil@ors.ubc.ca) or call toll free 1-877-822-8598.

**Consent decision:**

Please check **one** of the two boxes below:

- ☐ Yes, I agree to participate in this study and allow my Facebook browsing **event data and context data** to be collected by the research team.
- ☐ Yes, I agree to participate in this study and allow my Facebook browsing **event data, but not my context data**, to be collected by the research team.

Please sign here \_\_\_\_\_

Once complete, please submit this form to Wali Usmani either as a hard copy in person or send it at [waliusmani@gmail.com](mailto:waliusmani@gmail.com) .