**CONSENT FORM**

**FOR A STUDY OF DIFFERENCES IN SEARCH QUERY CONSTRUCTION BETWEEN NOVICE AND EXPERT PROGRAMMERS HUM#XXXXXXXX**

Principal Investigator: [REDACTED]

Principal Investigator: [REDACTED]

Faculty Advisor: [REDACTED]

Study Sponsor:[REDACTED]

You are invited to participate in a research study about how novices and experts formulate stack overflow search queries when debugging common Python errors.

If you agree to be part of the research study, you will be asked to do two things: fill out an online survey with demographic and behavioral questions (20 min) and attend a 50-60 minute screen-recorded video conference with a member of the research team. During the video-conference, you will be asked to share your screen with the research team while you use google to search for helpful information for solving various common Python bugs. You will be asked both short response and scale-based questions about each Python bug and its associated programming tasks. For instance, you may be asked to describe the cause of a programming bug or assess the quality of a given repair.

Benefits of the research: This study will help researchers evaluate differences between how novices and experts construct debugging-related google search queries. As a result, it may also help us learn how to build more effective debugging-support tools in the future, as well as help us improve software engineering pedagogy.

Risks and discomforts: This study will take time to complete (~75 minutes), and some of the code debugging questions may be challenging.

Compensation: As compensation for participating in this study, you will be compensated ($15 novice students, $50 professional developers).

Participating in this study is completely voluntary. Even if you decide to participate now, you may change your mind and stop at any time. You may choose not to answer any survey question for any reason.

We will protect the confidentiality of your research records by storing all records with identifiable information (e.g. screen recordings, compensation information) on [REDACTED] password protected devices. During analysis, we will refer to your data by a de-identified alphanumeric ID.

Since we are collecting a recording of your screen presentation, we need to let you know that this information may not be completely de-identifiable. To mitigate this, we will never publish any image from a screen recording that contains identifying information. Furthermore, we will delete any recording of your screen at your request (e.g if we inadvertently capture private information), and you may stop sharing your screen at any time.

Information collected in this project may be shared with other researchers, but we will not share any information that could identify you (including screen recordings).

If you have questions about this research study, please contact [REDACTED] at [REDACTED] or [REDACTED] at [REDACTED].

The [REDACTED] Review Board has determined that this study is exempt from IRB oversight*.*