

STANFORD UNIVERSITY Research Information Sheet

Protocol Director: Judith E. Fan, PhD

IRB Use Only

Approval Date: October 17, 2023

Expiration Date: Does Not Expire

Protocol Title: Assessing Statistical Literacy in the Classroom

IRB# 71504

DESCRIPTION: You are invited to participate in an educational research study to evaluate how students' attitudes, beliefs, daily habits, and academic engagement relates to student engagement and success in introductory statistics courses. In this course, we will administer various surveys and/or learning activities to gain insight into your learning experience in this course, as well as what you are learning. Some students might initially see one version of a learning activity while other students see another version, but all students will gain access to all versions of the learning activities by the end of the quarter. By consenting to participate in this study, insights gained from the information you provide in these surveys/activities might be used to improve the learning experience of students in similar courses.

TIME INVOLVEMENT: Your participation will take one academic quarter. Your participation will not involve any additional work beyond what is expected to be completed as part of your enrollment in this introductory statistics course.

RISKS AND BENEFITS: Your participation in this research is voluntary. There are no specific benefits associated with participation in this study. Your participation in this study is completely voluntary and you can withdraw at any time by completing the opt-out form here: <https://forms.gle/UoK4BaxfjXVgGd8z9> (link also accessible from the Course Canvas page). The risks associated with this study are minimal. Study data will be stored securely, in compliance with Stanford University standards, minimizing the risk of confidentiality breach. We cannot and do not guarantee or promise that you will receive any benefits from this study. While there is no direct benefit to you for participating in the study, the surveys and other learning materials that are being used as part of this study were designed with benefits to your learning experience in mind. Based on the results of this study, the principal investigator may learn more about how to improve student learning, and society may benefit from this knowledge. Your decision whether or not to participate in this study will not affect your experience or grade in this associated class as the professor will not know who is or is not participating in the study until after final grades are assigned.

PAYMENTS: You will not be compensated for your participation in this study.

PARTICIPANT'S RIGHTS: If you have read this form and have decided to participate in this study, please understand your participation is voluntary and you have the right to withdraw your consent or discontinue participation at any time without penalty or loss of benefits to which you are otherwise entitled. The alternative is not to participate. Your responses will be kept private, and we will not record any information that will make it possible to identify you in any report we might publish. Research records will be stored securely in password-protected computers and never in conjunction with any personally identifying information. The research team will be the only party that will have access to your data, and these data will be kept in confidential form through the duration of our research study to the extent possible. You have the right to refuse to answer particular questions. The results of this research study may be presented at scientific or professional meetings or published in scientific journals. Again, your individual privacy will be maintained in all published and written data resulting from the study.

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In accordance with scientific norms, the data from this study may be used or shared with other researchers for future research (after removing personally identifying information) without additional consent from you.

CONTACT INFORMATION:

Questions: If you have any questions, concerns or complaints about this research, its procedures, risks and benefits, contact the Protocol Director,

Judith E. Fan, PhD
Department of Psychology
Stanford University
Building 420, MC 2130
Stanford, CA 94301
Email: jefan@stanford.edu

Independent Contact: If you are not satisfied with how this study is being conducted, or if you have any concerns, complaints, or general questions about the research or your rights as a participant, please contact the Stanford Institutional Review Board (IRB) to speak to someone independent of the research team at 650-723-2480 or toll free at 1-866-680-2906, or email at irbnonmed@stanford.edu. You can also write to the Stanford IRB, Stanford University, 1705 El Camino Real, Palo Alto, CA 94306.

Please save or print a copy of this page for your records.

If you agree to participate in this research, no action is needed. If you DO NOT consent to participate in this study, or you choose to opt-out at any time during the quarter, please submit this form online here: <https://forms.gle/UoK4BaxfjXVgGd8z9> (link also accessible from the Course Canvas page). Your instructor will not have access to the list of students who have opted out until after grades are posted. Note that you must separately opt-out of the study for each course involved in this project.