

## Project Consent: Mapping Active Faults from Geomorphology

I am a graduate student under the direction of Professors Arrowsmith & Reano and Dr. Scott in the School of Earth and Space Exploration at Arizona State University. I am conducting a research study to develop a systematic approach for active fault mapping that includes providing the students, regardless of experience level, the same preparatory material, introductory exercises, and methodology before assigning fault mapping work in hope of reducing as many variables as possible that could introduce bias to the mapper but also giving the needed background to map well. This process will be tested in the Mapping Active Faults from Geomorphology course in the Spring 2022 semester..

I am inviting your participation, which will involve 3 activities:

- 1) a **mapping exercise** at the beginning and repeated at the end of the course (30 minutes of work each time). It will be digital and entail identification of point, line, and polygon features, rating their quality, and assessing their potential to indicate earthquake rupture. This will be done outside of class time at a location of your choice where you have computer access.
- 2) a **student inquiry** on their awareness and experience on relevant topics administered at the beginning and end of the course (15 minutes each time). This is a simple set of multiple choice and short answer questions to help us understand your awareness and experience with relevant topics to the mapping of active faults from geomorphology? This will be done outside of class time at a location of your choice where you have computer access.
- 3) and **listening sessions** with students as they work, during which we will observe and listen to their strategies and tactics for the mapping. These will be 30 minutes recorded zoom meetings where we listen to you talk about what you are thinking as you make decisions about your mapping (you will be sharing your QGIS—mapping software--screen: both tactical [where to put a point or a line] and strategic [your overall approach]). We will listen and have simple clarifying questions but provide no other feedback in these sessions. This will be done outside of class time at a location and time of your choice where you have computer access. I would like to record the listening session using Zoom. Zoom records an audio and video track of the video call. The call will not be recorded without your permission. If you would like to participate in an audio only call, turn off your camera. Please let me know if you do not want the session to be recorded; you also can change your mind after the session starts, just let me know.

You have the right not to answer any question, and to stop participation at any time.

Your participation in this study is voluntary. If you choose not to participate or to withdraw from the study at any time, there will be no penalty, for example, it will not affect your grade. There is no compensation.

The outcome of this project will be part of my study which will end up in my M.S. Thesis and hopefully in a journal publication. There are no foreseeable risks or discomforts to your participation.

Your responses will be kept confidential. The results of this study may be used in reports, presentations, or publications but your name will not be used. De-identified data collected in this study will not be shared with others. We may provide anecdotes from the exercise and listening sessions, but you will not be identified.

I would like to video record the listening sessions (your voice and the screen of your mapping; you do not have to turn on your camera). The listening session will not be recorded without your permission. Please let me know if you do not want the listening session to be recorded; you also can change your mind after the listening session starts, just let me know.

I will keep the recordings for the duration of the study (until I finish my thesis or another 2 years whichever comes first). Afterwards, all copies will be deleted.

If you have any questions concerning the research study, please contact the research team at: [ramon.arrowsmith@asu.edu](mailto:ramon.arrowsmith@asu.edu), [darryl.reano@asu.edu](mailto:darryl.reano@asu.edu), or [cpsscott1@asu.edu](mailto:cpsscott1@asu.edu). If you have any questions about your rights as a subject/participant in this research, or if you feel you have been placed at risk,

## **Permission to Take Part in a Human Research Study**

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you can contact the Chair of the Human Subjects Institutional Review Board, through the ASU Office of Research Integrity and Assurance, at (480) 965-6788.

By signing below you are agreeing to be part of the study.

Name:

Signature:

Date: