



On college campuses everywhere, there is great interest in finding technologies that will make knowledge and skills more accessible to more students. CoEngage UC Davis is an idea for one such technological innovation.

We know that students learn when they are involved in their learning. Research shows that when students engage with the material and with their peers, and when they receive relevant and immediate feedback from their instructor, learning happens. We know that students learn best when they are not passive bystanders, but are motivated and a part of the lecture experience.

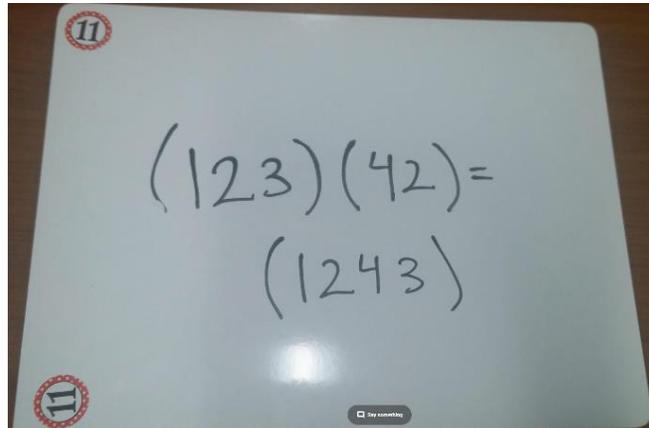
However, how many lectures motivate students? How many instructors incorporate what students are thinking into the lecture? How many students get the feedback they need to improve during lecture?

## Introducing !

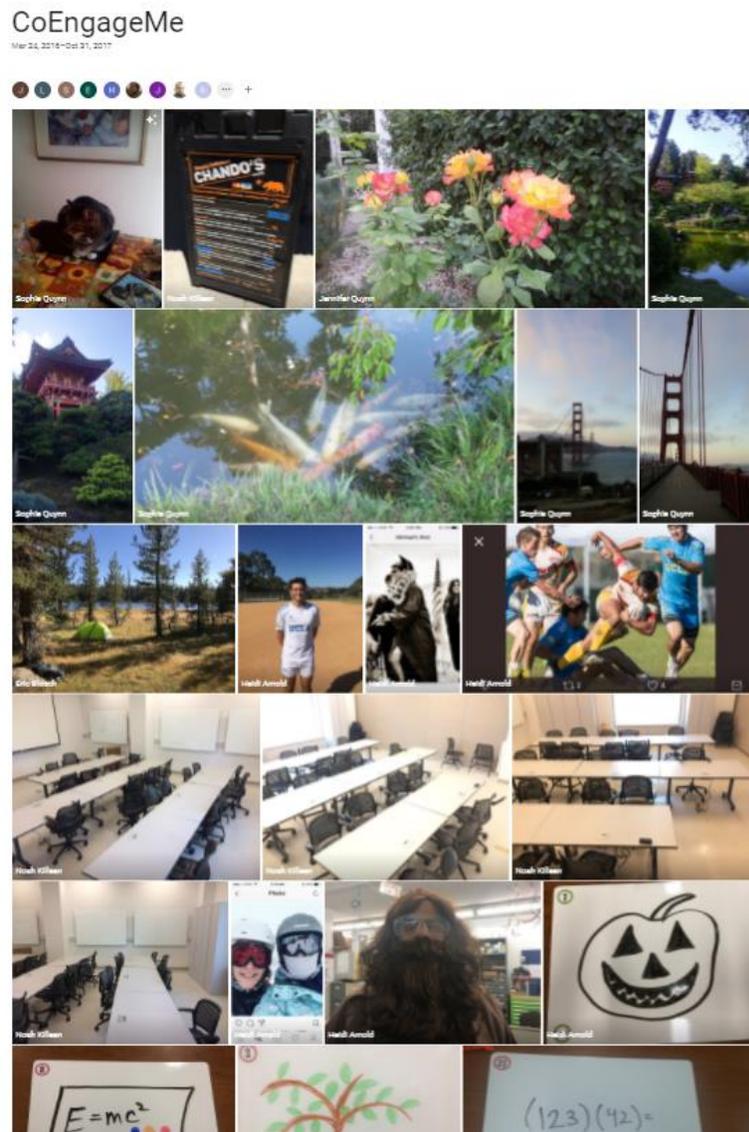
Learning Scientist, Dr. Jenny Quynn envisions a new lecture experience for students at UC Davis and, eventually, in lecture halls around the state, country, and world. In this new experience, technology allows students to be directly involved in the lecture, to share their ideas immediately with the instructor, in a low-risk way, and to receive relevant and timely feedback. CoEngage UC Davis embeds assessment directly into the lecture. Visual representations of student thinking replace tests and quizzes and instructors use those representations to make lectures more meaningful for all students.

With CoEngage UC Davis, students attend lecture and work in small groups. The instructor provides instruction and shares their expertise. However, students also share their ideas. The instructor can present an application question and students work together to develop a response in visual form. They draw their response on a white board using colorful dry erase pens. With their cell phone, they take a picture of their board and share the photo to a virtual photo album. The photo album allows the instructor to review all photos at once. From this album, the instructor can share one or more photo submissions with the entire class and provide instant feedback to the class.

Here is one example of a photo submission from Group 11:



Here is an example of a photo album that the instructor sees on the computer:



CoEngage UC Davis holds incredible potential to provide college instructors new technology that will revolutionize the way they teach and the level of motivation and engagement that students experience during lecture.

By accepting this proposal, the student design team will become equal partners in the development of CoEngage UC Davis technology. Their challenge will be to establish an accessible, secure, extremely user-friendly technology for instructors. The design team will become part of a high-quality, collaborative, experience where all ideas are valued. CoEngage UC Davis is an opportunity to apply computer science expertise to improve the way students interact and learn during lecture. CoEngage may transform the learning experience for students everywhere, but it begins here, at UC Davis, with computer science talent and attention to ensure its success.

For further questions or comments, please contact Jenny Quynn.

Thank you,

**JENNIFER QUYNN, PH.D.**

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