Given the prevalence of smartphone devices and Internet usage, more and more schools start embracing the Bring-Your-Own-Device (BYOD) policy to make learning more enjoyable and effective. Along with this trend, my research group has developed the CloudClassRoom (CCR) to transform smartphone devices into powerful interactive tools for classroom learning. CCR works on every Internet-capable device without further software or plug-in installation. It operates across-platforms, including iOS, Android, and Windows. Once the teacher connects his/her device to CCR, he/she can easily initiate anonymous quizzes. In addition to the traditional, forced-choice answer format, CCR enables students to respond with short texts, pictures, or even emoticons. Students’ answers are automatically aggregated and analyzed, providing the teacher with a rough picture of student learning progress just in time. To date, approximately 50,000 teachers and students have registered in CCR. More than 500,000 classroom activities have been conducted by using CCR. I believe that CCR is a promising tool to improve the interactivity of East Asian classrooms, in which students are usually silent and hesitate to express their ideas out loud. Therefore, I am currently leading an international project to investigate the impact of CCR on classroom learning across Taiwan, Thailand, Vietnam, and other Asian countries. The results from CCR can inform researchers, teachers, and policy makers in terms of how to better leverage the potential of mobile technology to boost learning and teaching.

Dr. Chun-Yen Chang is a science education scholar in Taiwan. Currently, he serves as National Taiwan Normal University (NTNU) Chair Professor, Director of Science Education Center (NTNU), Professor of the Graduate Institute of Science Education and the Department of Earth Sciences (NTNU). Over the past few years, he has been a Visiting Professor at the Education University of Hong Kong and the Paris 8 University. His major research interests include science education, e-Learning, interdisciplinary science learning, and science communication. Dr. Chang now is the Editor-in-Chief of the Eurasia Journal of Mathematics, Science and Technology Education. He is also on the Editorial Board of three journals: Studies in Science Education, Learning, Media & Technology, and Journal of Science Education and Technology. In February 2013, Dr. Chang's catechol-O-methyltransferase (COMT) study was privileged with a report by the New York Times Sunday Magazine, as well as in the news featured on Association of Psychological Science website. In 2019, CouldClassRoom (CCR) mobile learning system, developed by Dr. Chang and his research team, has been selected as an exemplary institution in the 2019 EDUCAUSE Horizon Report.

RUTGERS Graduate School of Education

GSE Seminar
CloudClassRoom (CCR): A Mobile Learning Project
Chun-Yen Chang
National Taiwan Normal University
11:45am–1:00pm
Thursday, September 19, 2019
GSE Lecture Hall (Room 124)

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