

New Mexico computer science for all

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Kiri Herringer and **William Fong** are participating in an educational research project directed toward understanding the effectiveness of new instructional materials (curriculum with activities and lessons), and evaluating the impact of strategies (workshops, and online network) on computer science (CS) teaching practice and on student learning in a dual credit CS course. Specifically, the REUS are focusing on the theory and methods used to assess the reliability and validity of the two instruments used in the research study and will gain expertise with using and modifying a software package that implements the Cronbach's Alpha and Kuder-Richardson analyses and data visualization developed by Maria Riolo for a different study (GUTS y Girls). The REUs will customize and adapt the software to for use with NM-CSforAll's research data and perform the analyses on sample data sets generated to mimic NM-CSforAll data. Subsequently, the REUs will report out on the findings of the analyses. Later in the year, when the actual NM-CSforAll datasets are available, the same analysis will be performed on those data to assess the reliability of the instruments and to assess the effectiveness of the program on teachers and students.