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Undergraduate Math and Physics Seminar

Understanding Pre-College Student Attitudes toward STEM through Statistical Methods

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Assistant Professor, CSUMB

Abstract:

National demand for workers in the fields of science, technology, engineering, and mathematics (STEM) is on the rise. Many high school and post-secondary students, however, diverge from STEM pathways into other fields. Therefore, a deeper understanding of STEM career pathways is needed, starting at early ages. I will discuss my work on examining the relationships between pre-college student attitudes toward STEM subjects and interest in STEM careers, as well as the role of gender and race/ethnicity. This includes the development of two survey instruments, and use of statistical methods such as factor analysis, missing data analysis, cluster analysis, and variable selection for analysis of survey results.



When: Monday, October 9, 2017, 4:30-5:20 pm

Where: CSUCI, Del Norte 1530

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