Channel Islands
CALIFORNIA STATE UNIVERSITY
DIVISION OF ACADEMIC AFFAIRS

California State University
INSTRUCTIONALLY RELATED ACTIVITIES
CHANNEL ISLANDS

Undergraduate Math and Physics Seminar

Student Presentations

Kayla Roberts, Natalie Huerta, Marie Conteras, Roberts Arotunian, Ty, Cesar Manzo, Dale Perrizolo, David Lary, Luke Burgess, James Kovacs,
CSUCI math majors

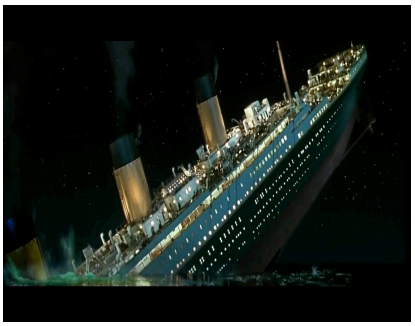
Mathematics 492:

The students in the Mathematics 492 Internship course will be presenting their individual experiences with their respective Internships and student interactive lessen plans they created for their middle or high school class.

Mathematics 494:

Recently, there has been a surge in available date describing phenomenon from genomics to astronomy and high-energy physics. Additional, access to date has resulted in the development of new information-based industries according to Frontiers in Massive Data Analysis, National Research Council of the National Academies. According, statistical rigor is imperative to justifying any gains in knowledge obtained from a given date set.

In our project will investigate and develop supervised machine learning algorithms that predict the classification of survival of passengers aboard the Titanic. We analyze certain attributes such as class, gender, age, family, and fare that are given in the date set. The main challenge is determining the most significant attributes that clearly distinguish the survivors and the non-survivors. Along with attempting to manually create our own attributes using feature engineering, we will use Principle Component Analysis together with k-nearest neighbors scheme to accurately classify passenger survival on the Titanic.



When: Monday, November 20, 2017, 4:30-5:20 pm
Where: CSUCI, Del Norte 1530