



The Math/Stats Colloquium
Department of Mathematics and Statistics
San José State University



Francesco Palumbo

University of Naples Federico II

*Prototyping through archetypes:
Data clustering from a different perspective*

FEBRUARY 27, 2019, MH320

Abstract: Human knowledge develops through complex relationships between categories. In the era of Big Data, the concept of categorization implies data summarization in a limited number of well-separated groups that must be maximally and internally homogeneous at the same time. The seminar presents the Archetypal Analysis and its capabilities by finding a set of extreme points that can summarize the entire data sets in homogeneous groups. The archetypes are then used to identify the best prototypes according to Rosch's definition in a geometrical approach.

Background: One course in linear algebra and statistics.

About the speaker: Francesco Palumbo is a Professor in the Department of Political Sciences at the University of Naples Federico II. His research is in statistics, focusing on data analysis and clustering.

SNACKS IN MH331B AT 2:30 PM

TALK STARTS AT 3:00 PM

For more information, see our full schedule at:

<http://www.timhsu.net/colloq/>