

1116-H1-745 **Christopher S Shaw*** (cshaw@colum.edu), Department of Science & Mathematics, 600 S Michigan Ave, Chicago, IL 60605. *Exploring personality profiles with matrices.*

We will present a short-term class project used in an introductory linear algebra course. For this activity, students responded to a survey of their pop culture tastes. Using the survey responses, they worked to design a series of matching algorithms, using matrices, with the goal of matching the students in the class to the person whose tastes most closely aligned with theirs. The class then explored various ways of testing the quality of the match. Topics covered along the way include: symmetric matrices, vector products, and numerical interpretation of qualitative data.

This presentation will address the assignment prompts, the collected data, and an overview of the student reactions to the project. (Received September 11, 2015)