



**CALIFORNIA STATE SCIENCE FAIR
2017 PROJECT SUMMARY**

Name(s) Sean Cai	Project Number J0403
Project Title Using Linguistic Cues for the Automatic Recognition of Personality	
Abstract Objectives/Goals The objectives of this experiment are to explore the effect of ethnicity and gender on personality, find the approximate personality ratio between traits in society, and test the accuracy of personality questionnaires with correlation graphs today. Methods/Materials 75 questionnaire sheets with three questionnaires each to be filled out by 75 students, first questionnaire was the Eysenck Personality Inventory attained from online. The second questionnaire, the Newcastle Personality Assessor. The third questionnaire, a data-mining software created by Mairesse, Walker, Mehl, and Moore to be used publicly. Results Ethnic and gender variation had a huge impact on personality, with clearly defined barriers. Correlation between the three questionnaires tended to be minimal, with correlation scores concerning questionnaire three to be extremely low. The ratio of personality traits to their counterparts was found to be 50-50 percent for extroversion and neuroticism, but ranked extremely high for the personality traits of conscientiousness, agreeableness, and openness to experience. Conclusions/Discussion The fact that correlation between the three questionnaires was minimal suggests that the respective questionnaires created for personality don't all have the same standards of assessment of personality, meaning that work in paralinguistics today is disorganized. Ethnic and gender variations in personality were found, implying the prevalent effect of culture and gender identity. The ratios of the personality traits that were not 50-50 percent signified the emphasis of those traits in society, overall exploring the diverse world's impact on personality.	
Summary Statement I found the major effects of ethnicity and gender on personality, effectively comparing those results to the ratio of the personality trait's counterparts in society as well as confirming the accuracy of today's personality questionnaires.	
Help Received Professor Zhu of USD provided intellectual knowledge and procedural advice on the project topic.	