

1125-VP-341      **Lina Wu\*** (lwu@bmcc.cuny.edu), 529 West 42nd Street, Apt. 5K, New York, NY 10036. *A Statistical Approach of Multivariate Data Analysis to Study Effects of Video Games and Online Chat on Mathematics Performance.* Preliminary report.

Regarding heavy video game players for boys and super online chat lovers for girls as a symbolic phrase in the current adolescent culture, this project of data analysis verifies the displacement effect on deteriorating mathematics performance. To evaluate correlation coefficients or regression coefficients between a factor of playing video games or chatting online and mathematics performance compared with other factors, we use multivariate analysis technique and take gender difference into account. We find the most important reason for the negative sign of the displacement effect on mathematics performance due to students' poor academic background. This project was supported by PSC-CUNY Award, jointly funded by The Professional Staff Congress and The City University of New York. (Received August 28, 2016)