

1106-60-1821 **Brian Christopher Kirk*** (briankirk@mail.adelphi.edu), 189 Elderberry Road, Mineola, NY 11501, and **Salvatore P Giunta** (sgiunta@adelphi.edu), 152 bismark ave, valley stream, NY 11581. *Monty Hall Returns: Analyzing Cognitive Probabilistic Models.*

An individual, when faced with a meaningful decision, must necessarily create a probabilistic model of the situation before them to guide their choice. We will present a statistical analysis of the responses of various individuals faced with the Monty Hall Problem. We will also discuss statistical correlation and regression between the complexity and accuracy of the individuals' extemporaneously created probabilistic models, using the Conditional Probability Solution as the baseline for the analysis. (Received September 15, 2014)