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**Maria Siopsis\***, 502 East Lamar Alexander Pkwy, Maryville, TN 37803. *Tailgating and trajectories: Using corn hole data to illustrate transformations and characteristics of parabolas.*

We report on the effectiveness of using trajectory data from a corn hole game to present transformations of functions and characteristics of parabolas, common topics in many college algebra and pre-calculus courses. Students use data captured from the trajectory of their own corn hole beanbag to explore these topics in an applied (and personal) context. Beginning with the quadratic function  $y = x^2$ , students apply transformations in order to find a quadratic function whose graph matches their data. The result is compared to the best-fit quadratic and analyzed for location of the vertex and intercepts. Concepts are then interpreted in the context of the game. (Received September 15, 2014)