1056-R5-2027   **James D. Factor** and **Edmond J. Nadler*** (`enadler@emich.edu`), Mathematics Department, Eastern Michigan University, Ypsilanti, MI 48197. *Visual Analytics to Explore Elementary Probability.* Preliminary report.

We present an educational module that explores the use of Visual Analytics to as a tool for undergraduates to learn basic concepts in probability. Visual Analytics is an emerging field that combines computer visualization tools with algorithms and human interaction to solve problems. Applying visualization tools to real data, using techniques such as parallel coordinates, will enable students to get a hands-on feel for basic concepts in probability, such as independence of events. The module was initiated at the Reconnect 2009 summer workshop "Visual Analytics and Applications" held at Rutgers University. (Received September 22, 2009)