1046-E1-26 **Ivo D. Dinov*** (dinov@stat.ucla.edu), SOCR Resource, UCLA Statistics, 8125 Math Sciences Bldg., Los Angeles, CA 90095. *Interactive, Data-Driven and Technology-Enhanced Approach for Probability and Statistics Education.*

Recent technological advancements, research-motivated projects and novel interactive graphical tools provide a valuable platform for developing new and effective approaches for enhancing the probability and statistics education. In this presentation, we will demonstrate hands-on a new technology-blended pedagogical approach for teaching and learning probability and statistics. This approach is based on curricular integration of free, open-source, Internet-accessible, collaborative and multilingual materials including data, statistical methods, dynamic demonstrations and computational tools. All of these learning materials and interactive aids are freely available online http://www.SOCR.ucla.edu/. The research data provided is derived from various scientific studies and is made freely available on the Internet. Electronic WIKI EBooks and tutorials form the basis for the statistical methodology and concept definitions. Interactive web-based hands-on activities are used for demonstrations and self-learning. Finally, HTML interfaces provide access to JAVA-based computational libraries and tools. Each of these four concepts will be illustrated in the context of some common probability and statistics examples. (Received June 09, 2008)