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*Examples of Research by Undergraduates at the Summer Undergraduate Research Institute in Experimental Mathematics (SURIEM).*

Over the past seven years we involved over one hundred undergraduates from across the nation in mathematics research at the Summer Undergraduate Research Institute in Experimental Mathematics (SURIEM) at Michigan State University. Students worked in projects from a variety of mathematics disciplines including combinatorics, graph theory, discrete mathematics, probability, statistics and mathematical biology. In this talk we give examples of research problems that led to peer reviewed publications and conference presentations. We will also share problems for future investigations. (Received July 28, 2016)