

1135-F1-1710 **Donald J Plante*** (donald.plante@unh.edu), 88 Commercial Street, Manchester, NH 03101.
Automating String Art through the use of 3D Printers.

String art, first popularized by Mary Everest Boole, beautifully demonstrates geometric patterns that are formed when arranging thread by stringing it between multiple points. This mathematical art is both pleasing to observe as well as time consuming to create. By taking advantage of 3D printers natural tendency to form strings of filament during the printing process, we have automated this labor-intensive art form. This is accomplished by programming the movements of 3D printers in G-code so that these models can be quickly reproduced and enjoyed by a wider audience. (Received September 24, 2017)