

1135-F1-2886

Laura Taalman* (laurataalman@gmail.com). *Math as Design Engine: Leveraging mathematics to create 3D printed art.*

Mathematicians have a powerful secret universe to draw from when creating 3D-printable designs. In this talk we'll discuss how software like Grasshopper, OpenSCAD, Structure Synth, and TopMod can be used to turn mathematical knots, curves, polyhedral wireframes, and procedurally generated forms into 3D printed jewelry, housewares, and art. We will also display printed pieces from the collection at mathgrrl.com/hacktastic/designs. (Received September 26, 2017)