

BAMA

School Year 2020—2021
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Silviana Amethyst *My Identity as a Mathematical Artist*

**Via Zoom at 7:30 pm
Tuesday, April 13, 2021**

<https://scu.zoom.us/j/92905543794?pwd=MEVYSnBCVU1mMIJRYS8vczRQVGQ0dz09>

Please join meeting between 7:15 and 7:30 pm

Meeting ID: 929 0554 3794

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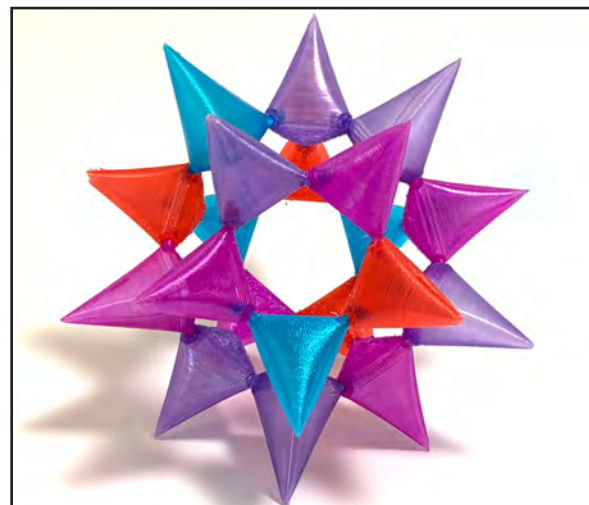
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I love algebraic surfaces, and they form the basis of my mathematical art. These are 2d objects coming from the set of roots of a multi-variable function, like $x^2+y^2+z^2-1=0$ (a sphere). I find endless beauty and creative opportunity in them, as I 3d print and make pictures of them, and compute them. But this leaves me with a question of identity, since I seem more focused on aesthetic than proof. I ask myself: Am I a mathematician? An artist? A computer programmer? In what ways am I *not* a mathematician? How has mathematics shaped me as a person?

I want to share with you the path I took to become a professor of mathematics, and some of the most meaningful ways that mathematics has shaped my life. Some of my favorite pieces of math will pop up, and we'll talk about the kinds of art I do, too -- mostly 3d printing. Learn more about me at silviana.org.

Silviana Amethyst is an Assistant Professor of Mathematics at the University of Wisconsin-Eau Claire. Her research focuses on computational algebraic geometry, mostly by writing software and developing algorithms. She loves the Barth Sextic, 3d printing, and making mathematical art.



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