It's odd for an object that we react so closely with, slowly wearing down with the rhythm of daily pattern, folding, ironing, preserving for years, that we have so little to do with the actual creation of our clothes. They are a defining method of personal expression, yet outside of the extremely narrow world of couture, clothing is produced en-mass, either according to a designer’s vision, or to fit a stereotype, without any personalization for the person who eventually wears it.

Form + Code attempts close the gap between those two worlds a little, allowing for clothes to be grown organically and specifically for the wearer, like developing spots on a Dalmatian, or the florescent stripes of a tropical fish (and using many of the same algorithms). By applying computational design to the creation of the collection, it is possible to create pieces that are highly tailored and customized by the individual wearing it while still retaining the cohesive look of a collection, and a recognizable style of the designer.

In the following designs, I plan on experimenting with generating both form and textiles (through knitwear and printing on the fabric) with different generative algorithms.
process

(initial ideas, reaction diffusion swatches, face morphing with delaunay triangulation, generative knit swatch created from the reaction diffusion images)

(gown sketch, flocking particle simulation, 3D printable mesh for jewelry created from the flocking particles)
Past Sewing Experience

My sewing career has been fairly limited. I’ve always hemmed/tailored my own clothes (since I’m ridiculously short, and I thrift quite often) and I’ve created a few simple pieces from scratch, mainly dresses and skirts.

My knitwear experience is much more extensive, I’ve been hand knitting for 9 years, and spent last year doing research on creating generative textiles with a knitting machine.

This project is also doubling as my Senior Capstone for BCSA, which is researching generative algorithms and how to make them tangible. I have a grant from the college for materials, and hopefully an additional SURG. The high production value and quite frankly, ridiculously large audience of Lunar Gala would make it an amazing venue for the work.