

A Dress that Breathes

Alice Nasto

Paper “lungs”



[link](#) to video

Kinetic fashion



SKORPIONS (XS Labs)



“Living Clothes”
by Alice Ziccheddu

(fashioningtech.com)

Follow links for videos:

Hussein Chalayan

Kerry Jia Yi Lin

Collapsible origami accessories



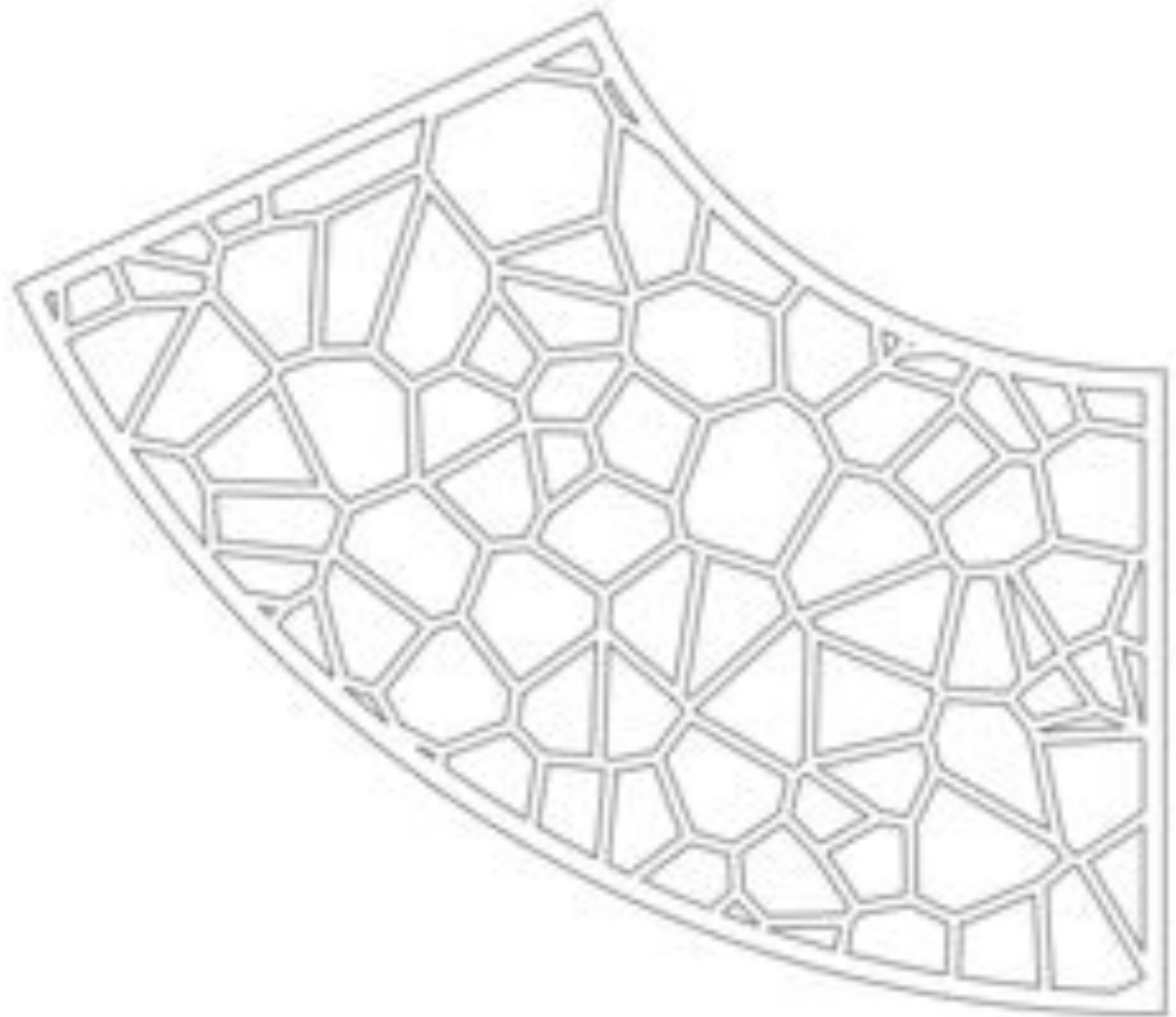
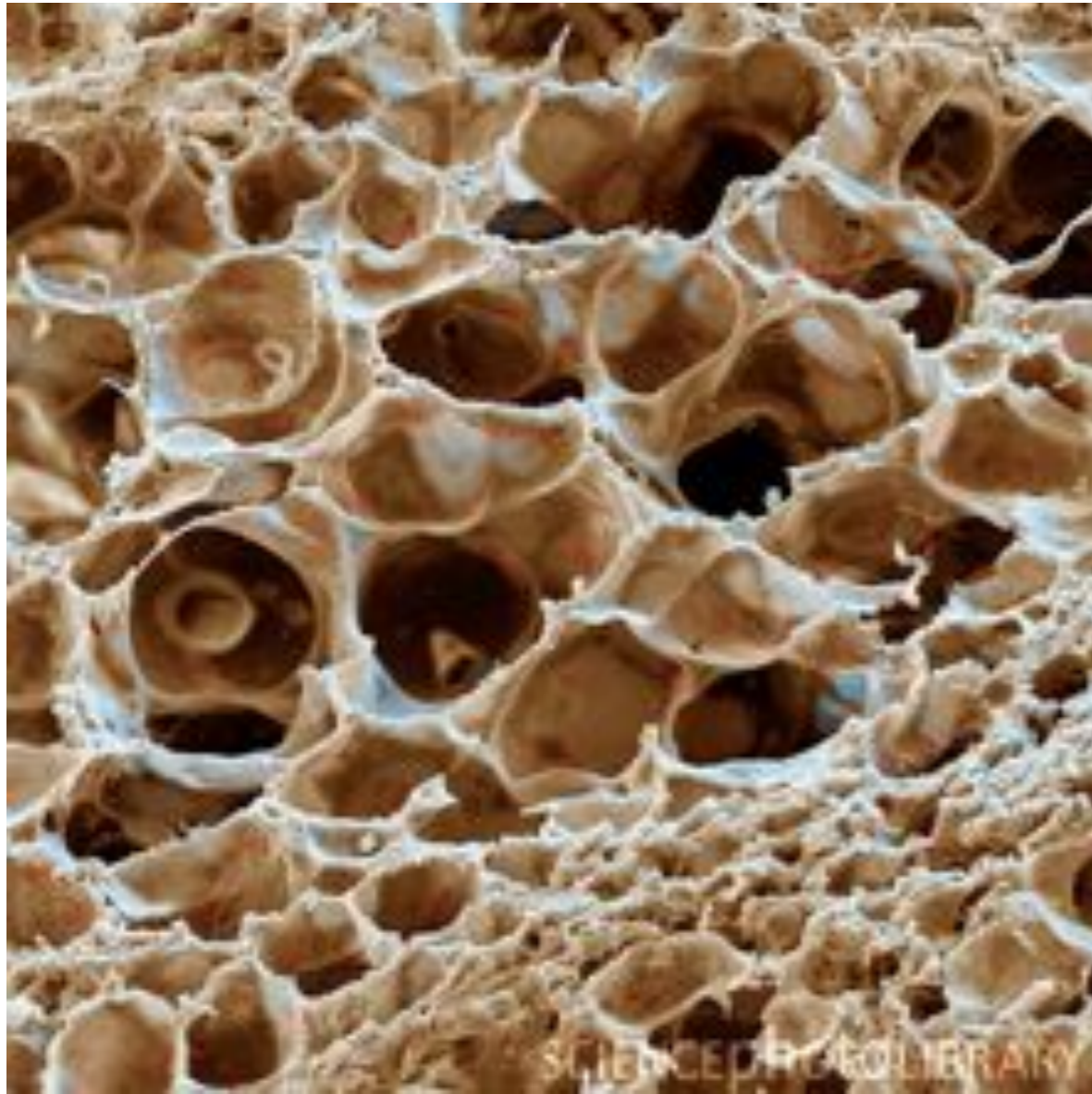
by Gloria Pizzilli, Arianna Petrakis, Ilaria Pacini, and Adele Bacc
(fashioningtech.com)



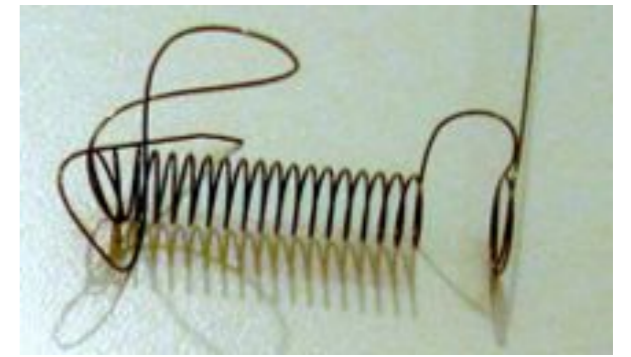
1. Laser cut pattern in fabric.
2. Stitch folds in place.
3. Starch fabric to make it stiff.



Voronoi lace peplum is inspired by alveoli in lungs



Actuated by nitinol shape memory wire
shape-set into springs



Controlled with an Arduino LilyPad

Challenges and Potential Improvements

- choosing nitinol with correct activation temperature
- fragility of electronic connections
- anchoring origami is difficult without constraining motion
- would have preferred lace with smaller voids