

Scaled

Katie Thompson, Iowa State University, USA

Keywords: Design, Surface Design, Laser Cutting

Inspired by the Clown Triggerfish, this garment represents the beautiful colors and scales found on the fish. The beauty that lives within the ocean often serves as inspiration for apparel designers.

Beaudette & Fong's (2014) design work labeled "Pearlescence" is a one-piece swimsuit incorporating the deep blue of the sea as well as asymmetrical panel pieces of a fish scaled 3D design. The garment represents the textures and fluidity of the ocean and the creatures found within the ocean.



Creating a unique take on the wetsuit, the goal for *Scaled* was to create something unique yet wearable. Neoprene was used for the fabrication to replicate a wetsuit, the garment that would be worn to view the Clown Triggerfish in the Mediterranean Sea. The bright yellow paired with the grey and black was used to replicate the colors found on the Clown Triggerfish. This unique garment was cut entirely with a Trotec laser cutter and engraver. The ensemble was flat patterned and digitized into Optitex PDS. In Adobe Illustrator different scale patterns were created for the skirt front and back and sleeves. The sleeve pieces were created in 2 different sizes and incorporated 9 different engraved designs. The skirt yoke's pattern replicated the Clown Triggerfish's head pattern. These pieces were all engraved and cut out with the Trotec laser cutter. The engraving of the garment took 22 hours. The bodice front was created in Adobe Illustrator and 5 panel pieces of a pointed fish scale and 4 panel pieces of a curved fish scale was

created. The pieces were then also cut out using the Trotec laser cutter. The bodice back consists of the same style lines as the front but instead has the fish scale patterned engraved. The skirt yoke seam was then beaded entirely around the skirt to replicate the rock found in the ocean. Seven fish scale shapes were hand beaded and hand stitched to the bodice front and the bodice back to show multiple ways to replicate the same fish-scale shape. Over 20 different types of seed and bugle beads were used to bead the scales. The garment pieces were sewn together using a cover stitch and incorporate an exposed zipper in the back.

This garment represents how technology can be used to create garments, in this case the Trotec laser cutter and engraver. It shows the possibilities of silhouette designs as well as surface design.



References

Beaudette, Eric & Fong, Linnea. (2014). Pearlescence. International Textile and Apparel Association Design Exhibition Catalog, 127.