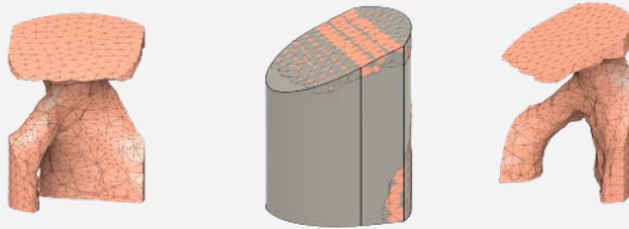


# “Cherie-boutin”

For this assignment, I wanted to play around with the shape of heels. Therefore, I did a shape optimization study to see which areas of a block heel could be removed, then manually removed “material” until I had a shape I was satisfied with.

This was printed entirely on the Ender 3D printer, but two halves of the shoe were attached with a 3d printing pen as I wanted an organic shape which couldn’t be printed in one piece without supports. As for attaching my foot to the shoe, I cut apart a blouse in my closet and attached the pieces to produce a strappy heel.

The shoe was safe to walk in ( $FOS = 2.02$ ) and surprisingly comfortable!



Shape  
Optimization  
study results



Final Heel  
CAD



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